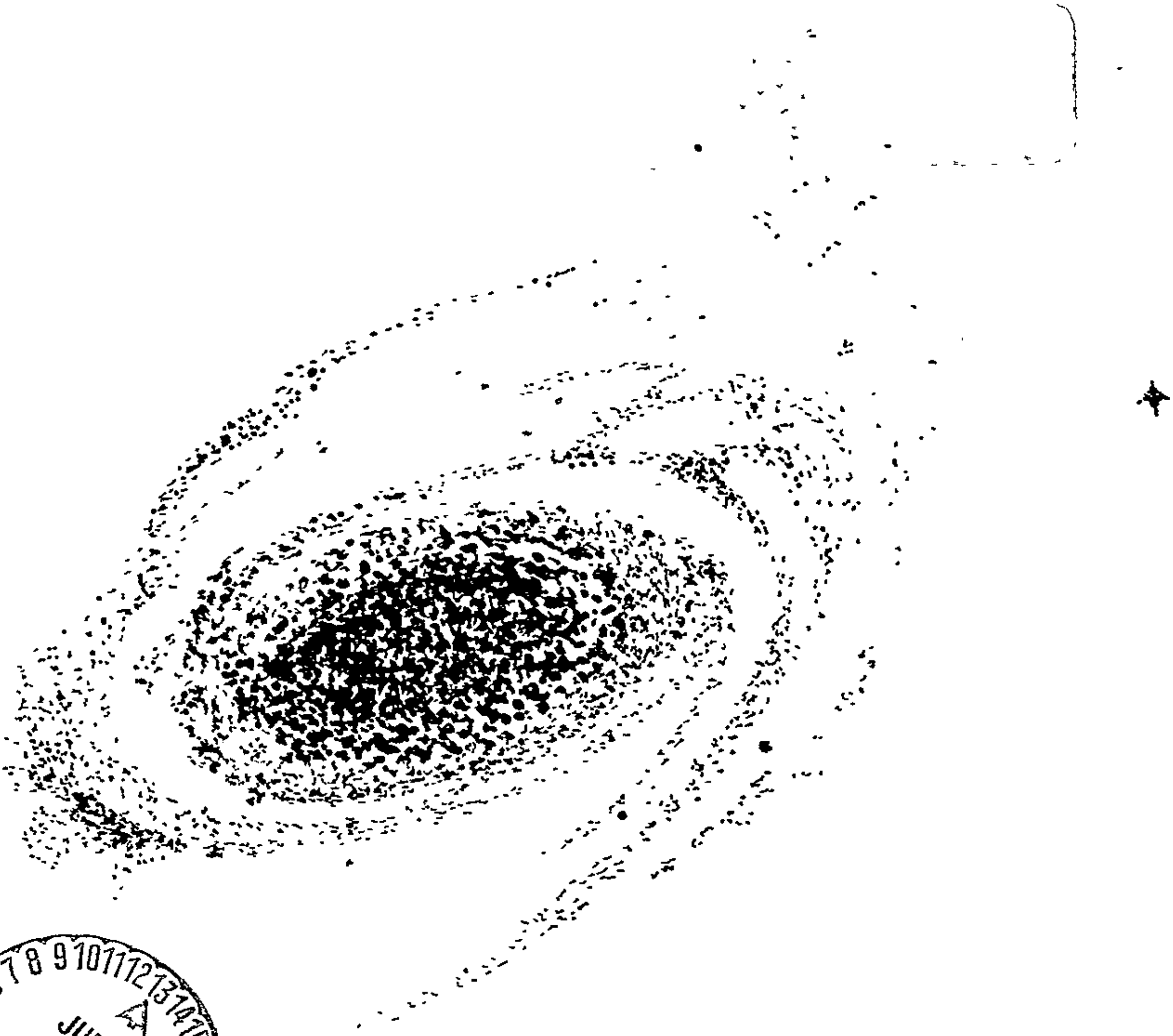
N75-24601

A TABLE OF SEMIEMPIRICAL gf VALUES
Part 3

R.L. KURUCZ and E. PEYTREMANN



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Smithsonian Astrophysical Observatory
SPECIAL REPORT 362

420

Research in Space Science
SAO Special Report No. 362

(NASA-CR-142881) A TABLE OF SEMIEMPIRICAL gf VALUES. PART 3: WAVELENGTHS: 599.4004 nm TO 9997.2746 nm (Smithsonian Astrophysical Observatory) 422 p HC $10.50
CSCL 03A G3/89
N75-24601
Unclas
23032

A TABLE OF SEMIEMPIRICAL gf VALUES

R. L. Kurucz and E. Peytremann

in three parts

Part 3: Wavelengths: 599.4004 nm to 9997.2746 nm
Pages: 801 to 1219

February 14, 1975

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Smithsonian Institution
Astrophysical Observatory
Cambridge, Massachusetts 02138

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
599.4004	6.00	-2.29	69710.660	2.0	86389.380	2.0
599.4086	28.01	-3.20	114052.040	3.5	130730.530	2.5
599.4090	26.00	-4.83	26105.908	6.0	42784.387	6.0
599.4243	26.00	-2.91	34692.130	1.0	51370.184	2.0
599.4374	28.01	-2.52	116191.470	2.5	132869.160	3.5
599.4378	14.00	-3.49	62986.320	2.0	79664.000	1.0
599.4410	9.00	-1.13	115917.909	2.5	132595.500	2.5
599.4439	22.00	-3.38	18825.890	1.0	35503.400	0.0
599.4449	23.00	-1.71	21646.390	3.5	38323.870	4.5
599.4461	7.01	-3.81	186511.580	2.0	203189.030	1.0
599.4590	24.01	-4.67	50667.330	3.5	67344.420	2.5
599.4597	26.02	-1.09	196886.010	6.0	213563.080	5.0
599.4640	62.01	-1.59	11292.053	0.0	27973.622	0.0
599.4654	23.01	-5.46	20242.320	4.0	36919.230	3.0
599.4678	18.00	-3.28	107131.755	1.0	123808.600	2.0
599.4690	24.01	-4.83	72648.790	3.5	89325.600	4.5
599.4773	26.01	-5.70	25981.650	3.5	42658.230	3.5
599.4810	17.00	-2.81	85735.091	1.5	102411.570	.5
599.4823	26.00	-3.69	37046.000	4.0	53722.440	5.0
599.4848	28.01	-2.39	105499.050	3.5	122175.420	2.5
599.4888	28.01	-3.11	115120.000	2.5	131796.260	2.5
599.5090	62.00	-1.27	2258.411	0.0	18938.728	0.0
599.5350	58.01	-.78	10646.793	0.0	27326.386	0.0
599.5370	40.00	-2.41	5807.341	0.0	22486.879	0.0
599.5379	22.00	-3.08	19421.576	3.0	36096.470	3.0
599.5463	23.00	-4.03	20828.480	2.5	37503.140	2.5
599.5488	29.01	-.26	122223.840	0.0	138898.430	1.0
599.5652	22.00	-.63	27907.026	2.0	44581.160	2.0
599.5713	22.00	-3.56	24694.895	4.0	41368.860	4.0
599.5730	75.00	-.85	27020.269	0.0	43698.805	0.0
599.5816	26.02	-3.11	168329.670	3.0	185003.350	2.0
599.5911	26.00	-4.29	37157.546	2.0	53830.960	3.0
599.5994	22.00	-1.78	15156.787	4.0	31829.972	4.0
599.6000	76.00	.83	34198.789	0.0	50876.574	0.0
599.6028	28.01	-.93	105439.850	1.5	122112.940	.5
599.6045	6.00	-2.77	69689.480	1.0	86362.520	1.0
599.6110	16.01	-4.14	113461.220	1.5	130134.080	2.5
599.6182	22.00	-4.80	26657.409	4.0	43330.070	5.0
599.6251	28.01	-1.98	116145.690	3.5	132818.160	4.5
599.6294	23.00	-4.54	15264.830	5.5	31937.180	5.5
599.6344	25.00	.26	45754.270	3.5	62426.480	3.5
599.6468	26.00	-2.85	34547.192	2.0	51219.059	3.0
599.6636	24.00	-2.77	24299.890	2.0	40971.290	2.0
599.6646	28.01	-1.80	104646.520	3.5	121317.890	3.5
599.6690	24.01	-3.93	52321.300	4.5	68992.550	4.5
599.6693	27.00	-1.05	36092.440	2.5	52763.680	3.5
599.6729	28.00	-2.20	34163.294	2.0	50834.435	2.0
599.6761	25.00	-4.32	34343.900	4.5	51014.950	3.5
599.6859	28.01	-4.77	120002.860	3.5	136673.640	4.5
599.6905	27.00	-1.38	35450.560	3.5	52121.210	4.5
599.6909	24.00	-4.04	46000.360	3.0	62671.000	4.0
599.6954	14.00	-4.75	47351.554	2.0	64022.070	3.0
599.7078	28.01	-2.49	116312.340	1.5	132982.510	1.5
599.7090	56.00	-.12	9033.000	0.0	25707.754	0.0
599.7130	71.00	-.23	22503.448	0.0	39178.091	0.0
599.7147	22.00	-5.83	12118.394	4.0	28788.372	4.0
599.7161	10.01	-2.96	302425.870	1.5	319095.810	2.5
599.7230	73.00	-1.22	13227.833	0.0	29902.198	0.0
599.7231	14.00	-3.49	47351.554	2.0	64021.300	2.0
599.7240	24.00	-3.31	38537.680	5.0	55207.400	4.0
599.7310	92.00	-1.13	6210.629	0.0	22884.771	0.0
599.7319	24.00	-4.68	27703.840	4.0	44373.340	3.0
599.7326	25.00	-2.30	46083.890	1.5	62753.370	2.5
599.7591	28.00	-1.15	34163.294	2.0	50832.039	3.0
599.7726	23.00	-4.57	20789.130	2.5	37457.500	1.5
599.7776	26.00	-1.77	37162.729	3.0	53830.960	3.0
599.7794	7.01	-2.11	209823.910	4.0	226492.090	4.0
599.7859	29.01	-4.13	129759.600	1.0	146427.600	1.0
599.7914	14.00	-4.77	47351.554	2.0	64019.400	3.0
599.7930	41.00	-1.49	9436.930	0.0	26109.349	0.0
599.7960	92.00	-1.83	4194.191	0.0	20866.526	0.0
599.8001	22.00	-4.93	26564.385	3.0	43231.990	4.0
599.8093	24.00	-4.04	24303.940	3.0	40971.290	2.0
599.8143	18.01	-3.90	186340.480	1.5	203007.690	1.5
599.8200	9.00	-3.95	118936.797	1.5	135603.850	2.5
599.8265	24.01	-4.73	50667.330	3.5	67334.200	3.5
599.8431	17.00	-2.61	85442.430	1.5	102108.840	1.5
599.8489	24.00	-2.42	35398.020	4.0	52064.270	4.0
599.8521	28.01	-3.21	116261.810	.5	132927.970	1.5
599.8672	22.00	-3.19	18911.399	2.0	35577.140	2.0
599.8730	28.01	-4.10	122175.420	2.5	138841.000	3.5
599.8848	28.00	-2.43	33112.368	3.0	49777.619	3.0
599.8927	26.00	-4.06	29313.008	6.0	45978.040	7.0
599.8981	7.01	-3.53	209823.910	4.0	226488.790	3.0
599.9003	18.00	-1.85	105617.315	2.0	122282.134	2.0
599.9023	22.00	-.97	17540.205	3.0	34204.971	4.0
599.9080	64.00	-.87	6452.602	0.0	23121.825	0.0
599.9148	26.00	-3.09	34039.495	4.0	50703.912	5.0
599.9160	22.00	-3.66	25388.334	4.0	42052.720	3.0
599.9272	22.00	-1.36	29986.185	3.0	46650.260	3.0
599.9410	92.00	-1.73	3710.246	0.0	20378.552	0.0
599.9420	7.00	-1.75	93581.520	.5	110245.183	.5
599.9543	26.02	.36	151757.670	2.0	168420.990	2.0
599.9663	22.00	-1.09	18037.225	4.0	34700.212	5.0
599.9722	9.00	-1.33	117308.558	1.5	133971.380	1.5
599.9810	56.01	-1.26	50011.220	0.0	66678.414	0.0
599.9910	13.01	-1.42	125700.500	0.0	142362.800	1.0
600.0051	29.01	.30	120092.200	2.0	136754.110	2.0
600.0080	28.01	-4.23	122441.220	4.5	139103.050	5.5
600.0087	26.02	.68	196901.270	5.0	213563.080	5.0
600.0163	24.00	-2.63	46000.360	3.0	62661.960	3.0
600.0663	27.00	-.20	29216.370	2.5	45876.580	2.5
600.0678	26.02	-3.88	189011.840	4.0	205672.010	4.0
600.0699	25.01	-4.77	49882.150	4.0	66542.260	5.0
600.0700	14.00	-1.77	48264.292	3.0	64924.400	3.0
600.1050	40.00	-1.17	12259.943	0.0	28923.694	0.0
600.1092	8.01	-2.74	231350.080	2.5	248009.100	1.5
600.1121	6.00	-2.07	69710.660	2.0	86369.600	2.0
600.1182	7.01	-3.27	209823.910	4.0	226482.680	3.0
600.1220	90.00	-2.12	8065.752	0.0	24729.030	0.0
600.1488	24.00	-3.19	35934.020	6.0	52591.940	5.0
600.1528	21.01	-4.21	10944.510	2.0	27602.320	3.0
600.1715	26.00	-4.99	37409.530	1.0	54066.821	2.0
600.1776	9.00	-1.64	117308.558	1.5	133965.680	2.5
600.1895	24.01	-4.25	50687.630	2.5	67344.420	2.5
600.1930	82.00	-.91	35086.021	0.0	51747.328	0.0
600.1964	13.01	-1.55	125706.200	1.0	142362.800	1.0
600.1964	13.01	-1.07	125706.200	1.0	142362.800	2.0
600.2018	15.01	-4.38	88894.000	1.0	105550.450	2.0
600.2198	29.01	-1.62	133594.050	3.0	150250.000	2.0
600.2259	25.00	-4.83	45130.160	4.5	61785.940	3.5
600.2288	23.00	-1.70	9824.580	2.5	26480.280	3.5
600.2450	27.00	-1.48	29269.730	4.5	45924.980	3.5
600.2519	28.01	-2.88	116191.470	2.5	132846.530	3.5
600.2627	23.00	-1.57	8476.200	1.5	25130.960	2.5
600.2639	22.00	-1.16	17423.853	2.0	34078.580	3.0
600.2684	13.01	-3.89	125706.200	1.0	142360.800	0.0
600.2983	6.00	-2.05	69744.030	3.0	86397.800	3.0
600.2995	26.00	-1.14	31307.235	4.0	47960.973	4.0
600.3005	25.00	-4.03	45060.810	3.5	61714.520	4.5
600.3171	24.00	-2.70	24277.060	0.0	40930.310	1.0
600.3182	18.01	-4.16	158167.710	1.5	174820.930	.5
600.3434	28.01	-3.40	103663.500	1.5	120316.020	.5
600.3521	26.01	-7.29	25787.600	1.5	42439.880	.5
600.3672	6.00	-3.48	69710.660	2.0	86362.520	1.0
600.3878	23.00	-6.34	14548.830	2.5	31200.120	1.5
600.4021	26.00	-2.88	34328.733	3.0	50979.627	4.0
600.4180	62.00	-1.57	806.575	0.0	17461.639	0.0
600.4282	25.00	-2.50	45060.810	3.5	61710.980	3.5
600.4318	24.00	-4.21	31364.330	3.0	48014.400	4.0
600.4357	28.01	-4.29	118314.820	2.5	134964.780	1.5
600.4360	63.00	-.37	15002.299	0.0	31656.863	0.0
600.4430	27.01	-3.48	69696.970	3.0	86346.730	3.0
600.4520	71.00	-1.08	7420.492	0.0	24074.613	0.0
600.4531	24.00	-4.76	27597.220	3.0	44246.700	4.0
600.4570	64.01	-1.03	13308.491	0.0	29962.473	0.0
600.4650	26.02	-.53	189679.070	3.0	206328.220	3.0
600.4675	24.00	-4.43	28637.000	3.0	45286.080	4.0
600.4675	24.00	-4.24	31987.060	4.0	48636.140	3.0
600.4731	2.01	-1.30	421353.130	0.0	438006.665	0.0
600.4837	28.01	-3.99	98561.220	2.5	115209.850	3.5
600.5010	28.01	-.71	104646.520	3.5	121294.670	4.5
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600.5173	15.00	-3.80	65585.000	2.5	82232.700	2.5
600.5252	26.02	-2.53	189024.530	5.0	205672.010	4.0
600.5349	25.00	-3.82	25285.430	4.5	41934.640	3.5
600.5418	27.00	-2.65	30443.630	1.5	47090.650	2.5
600.5497	26.00	-4.70	33695.378	5.0	50342.180	6.0
600.5547	26.00	-3.58	20874.482	3.0	37521.144	2.0
600.5580	24.01	-4.60	50687.630	2.5	67334.200	3.5
600.5610	63.00	-.90	15566.901	0.0	32217.999	0.0
600.5699	24.00	-2.21	46000.360	3.0	62646.600	2.0
600.5808	28.01	-3.57	105499.050	3.5	122144.990	2.5
600.5851	26.02	-1.67	189679.070	3.0	206324.890	2.0
600.6021	6.00	-3.29	69744.030	3.0	86389.380	2.0
600.6168	28.01	-2.38	105439.850	1.5	122084.790	1.5
600.6183	25.00	-4.61	25287.740	3.5	41932.640	3.5
600.6272	22.00	-3.87	25227.217	3.0	41871.870	2.0
600.6280	24.00	-1.86	31048.000	7.0	47692.630	7.0
600.6320	28.01	-3.37	99442.860	4.5	116087.380	4.5
600.6349	27.00	-1.28	35450.560	3.5	52095.000	3.5
600.6579	13.01	-2.73	125719.000	2.0	142362.800	1.0
600.6579	13.01	-1.55	125719.000	2.0	142362.800	2.0
600.6579	13.01	-.80	125719.000	2.0	142362.800	3.0
600.6591	24.00	-2.59	24286.540	1.0	40930.310	1.0
600.6645	25.01	-3.95	86061.750	3.0	102705.370	3.0
600.6688	17.01	-2.50	158177.100	1.0	174820.600	2.0
600.6760	24.00	-3.41	31049.330	6.0	47692.630	7.0
600.6854	27.00	-2.06	30102.960	2.5	46746.000	2.5
600.7020	23.00	-4.18	21603.170	4.5	38245.750	3.5
600.7070	90.00	-1.56	8711.012	0.0	25358.063	0.0
600.7096	23.01	-5.25	20617.050	2.0	37259.420	1.0
600.7175	6.00	-2.18	69689.480	1.0	86331.630	1.0
600.7306	28.00	-2.56	13521.352	2.0	30163.140	2.0
600.7323	28.01	-4.22	96535.870	3.5	113177.610	3.5
600.7352	28.01	-2.07	105499.050	3.5	122140.710	4.5
600.7360	57.00	-1.28	4032.876	0.0	20679.123	0.0
600.7377	25.01	-4.46	86061.750	3.0	102703.340	4.0
600.7605	25.02	-.20	176100.710	.5	192741.670	.5
600.7648	28.01	-4.21	98467.250	3.5	115108.090	2.5
600.7677	27.00	-.11	36329.860	2.5	52970.620	2.5
600.7700	22.00	-1.87	25317.813	1.0	41958.510	2.0
600.7821	26.02	-3.23	168420.990	2.0	185061.350	1.0
600.7938	26.00	-1.60	37521.144	2.0	54161.182	3.0
600.8051	22.00	-2.99	27614.667	4.0	44254.390	3.0
600.8150	25.01	-3.27	55371.300	3.0	72010.750	4.0
600.8370	28.01	-3.22	101740.270	3.5	118379.110	2.5
600.8374	28.01	-3.96	119909.720	1.5	136548.550	2.5
600.8462	7.00	-1.77	93581.520	.5	110220.107	1.5
600.8533	27.01	-3.58	68843.800	4.0	85482.190	4.0
600.8540	26.00	-1.07	31322.603	3.0	47960.973	4.0
600.8652	23.00	-2.18	9544.540	.5	26182.600	.5
600.8732	18.01	-2.90	195123.540	5.5	211761.380	4.5
600.9002	28.01	-2.49	96535.870	3.5	113172.960	4.5
600.9040	74.00	-1.90	17986.627	0.0	34628.220	0.0
600.9190	39.00	-.40	17018.737	0.0	33659.915	0.0
600.9237	24.00	-2.64	31377.960	4.0	48014.400	4.0
600.9366	22.00	-3.76	19322.988	2.0	35959.070	1.0
600.9756	17.00	-1.61	83130.900	1.5	99765.906	2.5
600.9775	22.00	-3.06	19573.968	4.0	36208.920	4.0
600.9890	73.00	-.73	24358.571	0.0	40997.811	0.0
601.0180	90.00	-2.59	2823.013	0.0	19461.450	0.0
601.0184	28.01	-4.40	96052.480	2.5	112686.300	2.5
601.0227	24.00	-4.34	35398.020	4.0	52031.720	3.0
601.0422	24.00	-4.32	31055.350	5.0	47688.510	4.0
601.0433	18.01	-2.99	195128.270	4.5	211761.400	3.5
601.0440	18.01	-4.55	195128.270	4.5	211761.380	4.5
601.0487	55.00	-1.21	11178.270	0.0	27815.857	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
601.0567	24.00	-4.72	46058.200	4.0	62690.960	5.0
601.0596	25.00	-3.33	37586.030	1.5	54218.710	1.5
601.0636	28.00	-1.76	35639.148	3.0	52271.716	2.0
601.0675	6.00	-2.02	69689.480	1.0	86321.940	0.0
601.0700	24.01	-3.76	53271.070	2.5	69903.460	3.5
601.0776	25.00	-1.43	45940.930	2.5	62573.110	1.5
601.0860	92.00	-.98	10243.505	0.0	26880.060	0.0
601.1152	23.00	-5.07	14910.040	3.5	31541.180	3.5
601.1190	22.00	-2.35	27750.124	5.0	44381.160	4.0
601.1220	62.01	-1.54	11695.340	0.0	28330.898	0.0
601.1300	28.01	-2.78	115120.000	2.5	131750.730	3.5
601.1332	18.00	-2.72	108722.668	0.0	125353.310	1.0
601.1398	27.00	-1.51	29294.520	3.5	45924.980	3.5
601.1412	24.00	-3.70	24299.890	2.0	40930.310	1.0
601.1681	22.00	-1.57	25388.334	4.0	42018.010	5.0
601.1781	24.00	-2.82	24277.060	0.0	40906.460	1.0
601.2038	28.01	-3.50	120044.950	4.5	136673.640	4.5
601.2200	63.00	-.32	15486.244	0.0	32119.091	0.0
601.2212	26.00	-4.30	17927.378	1.0	34555.586	0.0
601.2230	6.00	-2.30	69689.480	1.0	86317.640	2.0
601.2519	28.01	-4.74	120271.970	2.5	136899.330	1.5
601.2540	23.00	-3.99	20830.200	.5	37457.500	1.5
601.2560	63.00	-.11	15163.614	0.0	31795.465	0.0
601.2659	22.00	-3.15	19573.968	4.0	36200.940	5.0
601.2734	26.00	-3.91	36766.950	3.0	53393.715	4.0
601.2755	14.00	-2.93	48020.074	1.0	64646.780	2.0
601.2810	74.00	-1.08	19519.120	0.0	36150.279	0.0
601.2956	24.01	-4.33	67868.050	2.5	84494.200	2.5
601.3166	6.00	-1.37	69744.030	3.0	86369.600	2.0
601.3213	6.00	-1.47	69744.030	3.0	86369.470	4.0
601.3417	22.00	-3.17	8602.340	2.0	25227.217	3.0
601.3495	29.01	-2.21	119039.680	2.0	135664.340	1.0
601.3513	25.00	-.47	24779.320	1.5	41403.930	2.5
601.3640	26.02	-1.30	196881.470	7.0	213505.730	6.0
601.3640	27.00	-3.35	36092.440	2.5	52716.700	3.5
601.3673	18.00	-2.77	105462.804	3.0	122086.974	2.0
601.3842	24.01	-4.03	67870.500	1.5	84494.200	2.5
601.3955	26.01	-4.49	83868.650	2.5	100492.040	3.5
601.4004	9.00	-.71	117308.558	1.5	133931.810	2.5
601.4211	24.00	-4.88	33934.880	3.0	50557.560	4.0
601.4374	25.00	-1.64	34938.700	4.5	51560.930	5.5
601.4429	27.00	-3.11	30742.650	.5	47364.730	1.5
601.4476	26.02	-2.87	168329.670	3.0	184951.620	3.0
601.4624	28.01	-3.53	119909.720	1.5	136531.260	1.5
601.4819	24.00	-3.77	31393.400	5.0	48014.400	4.0
601.4820	22.00	-2.75	18818.230	0.0	35439.228	1.0
601.4830	6.00	-1.71	69710.660	2.0	86331.630	1.0
601.4917	26.01	-3.70	83871.310	4.5	100492.040	3.5
601.5210	24.00	-2.89	24286.540	1.0	40906.460	1.0
601.5249	26.00	-4.57	17927.378	1.0	34547.192	2.0
601.5275	28.01	-2.03	116824.150	2.5	133443.890	2.5
601.5283	26.02	.72	196886.010	6.0	213505.730	6.0
601.5303	28.00	-4.68	40484.282	2.0	57103.946	3.0
601.5384	27.00	-1.32	35450.560	3.5	52070.000	2.5
601.5427	24.00	-4.20	31355.210	2.0	47974.530	3.0
601.5501	9.00	-1.74	116987.394	3.5	133606.510	3.5
601.5580	63.00	.16	19357.805	0.0	35981.306	0.0
601.5717	24.01	-3.01	67875.680	3.5	84494.200	2.5
601.5721	24.00	-4.39	28637.000	3.0	45255.510	3.0
601.5721	14.00	-2.27	48264.292	3.0	64882.800	2.0
601.5790	76.00	-1.16	21212.928	0.0	37835.849	0.0
601.5793	26.01	-2.90	63559.560	.5	80177.870	1.5
601.5827	9.00	-.29	116987.394	3.5	133605.610	4.5
601.5837	22.00	-2.56	29912.262	3.0	46530.450	4.0
601.5847	26.00	-3.87	34362.860	1.0	50981.020	0.0
601.5900	73.00	-1.60	17260.709	0.0	33883.326	0.0
601.6101	23.00	-.72	21603.170	4.5	38220.630	5.5
601.6449	6.00	-1.82	69710.660	2.0	86327.160	3.0
601.6499	22.00	-3.44	18911.399	2.0	35527.760	1.0
601.6673	25.00	-.30	24788.050	2.5	41403.930	2.5
601.6730	92.00	-1.84	5726.684	0.0	22347.008	0.0
601.6763	28.01	-2.27	116312.340	1.5	132927.970	1.5
601.6790	72.00	.05	27342.899	0.0	43963.057	0.0
601.6894	28.01	-4.13	101357.200	4.5	117972.470	3.5
601.6944	26.00	-4.05	37046.000	4.0	53661.130	3.0
601.6993	22.00	-3.52	8492.421	1.0	25107.417	2.0
601.7160	57.00	-.78	13147.176	0.0	29766.312	0.0
601.7390	62.01	-1.88	10162.848	0.0	26781.349	0.0
601.7390	92.01	-2.42	4678.136	0.0	21296.637	0.0
601.7397	25.00	-1.09	45130.160	4.5	61744.040	5.5
601.7418	22.00	-1.56	25438.898	2.0	42052.720	3.0
601.7451	26.01	-6.89	25787.600	1.5	42401.330	1.5
601.7517	18.00	-2.89	107289.747	2.0	123903.295	2.0
601.7570	92.00	-1.48	6210.629	0.0	22828.633	0.0
601.7593	22.00	-2.65	18825.890	1.0	35439.228	1.0
601.7667	7.00	-1.95	93581.520	.5	110194.654	1.5
601.7680	23.00	-3.31	9824.580	2.5	26437.680	1.5
601.7752	11.02	-3.12	418418.100	1.5	435031.000	.5
601.7788	24.00	-3.01	46058.200	4.0	62671.000	4.0
601.7839	24.00	-3.41	33040.100	2.0	49652.760	2.0
601.7861	28.01	-4.63	116833.150	4.5	133445.750	4.5
601.7890	23.00	-2.18	9636.960	1.5	26249.480	1.5
601.7944	28.01	-.36	104503.220	2.5	121115.590	1.5
601.7973	26.01	-2.63	63273.030	2.5	79885.320	2.5
601.8150	63.00	-1.40	0.000	0.0	16616.402	0.0
601.8230	23.01	-4.98	20343.000	2.0	36954.580	1.0
601.8288	29.01	-1.70	121981.680	2.0	138593.100	1.0
601.8319	26.00	-2.68	37521.144	2.0	54132.480	1.0
601.8423	22.00	-1.30	17369.590	1.0	33980.639	2.0
601.8433	24.01	-3.99	74114.480	3.5	90725.500	3.5
601.8465	9.00	-2.08	117308.558	1.5	133919.490	1.5
601.8495	18.01	-4.91	186890.950	2.5	203501.800	2.5
601.8513	15.00	-4.11	65585.000	2.5	82195.800	1.5
601.8636	22.00	-3.55	8492.421	1.0	25102.680	2.0
601.8687	27.00	-3.58	36092.440	2.5	52702.760	1.5
601.8759	24.00	-2.70	33040.100	2.0	49650.220	3.0
601.8835	25.02	-4.01	176270.250	2.5	192880.160	3.5
601.8954	22.00	-3.85	15220.390	5.0	31829.972	4.0
601.9000	90.01	-1.91	15002.299	0.0	31616.354	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
601.9125	28.01	-3.06	113172.960	4.5	129782.070	3.5
601.9190	92.00	-1.81	4355.506	0.0	20969.037	0.0
601.9219	25.02	-1.33	179339.590	2.5	195948.440	3.5
601.9227	18.01	-3.85	195123.540	5.5	211732.370	4.5
601.9267	18.01	-2.08	195123.540	5.5	211732.260	5.5
601.9310	17.01	-2.77	158177.100	1.0	174785.700	1.0
601.9357	28.01	-.49	103663.500	1.5	120271.970	2.5
601.9376	26.00	-3.39	28819.966	5.0	45428.385	4.0
601.9470	56.00	-.10	9033.000	0.0	25645.758	0.0
601.9488	18.01	-4.94	172829.580	1.5	189437.690	.5
601.9542	17.00	-3.28	84988.480	1.5	101596.440	.5
601.9600	24.00	-4.66	31377.960	4.0	47985.760	5.0
601.9683	25.00	-2.38	34938.700	4.5	51546.270	4.5
601.9716	28.01	-3.96	119909.720	1.5	136517.200	.5
601.9811	17.00	-1.55	83364.927	.5	99972.144	.5
601.9897	6.00	-4.96	69710.660	2.0	86317.640	2.0
601.9914	22.00	-2.97	25107.417	2.0	41714.350	2.0
602.0046	24.00	-3.91	24299.890	2.0	40906.460	1.0
602.0147	26.00	-.90	37162.729	3.0	53769.020	4.0
602.0169	10.01	-4.17	291495.040	2.5	308101.270	2.5
602.0688	24.00	-4.13	25177.390	4.0	41782.190	4.0
602.0720	73.00	-1.93	9678.902	0.0	26288.211	0.0
602.0811	26.02	-.26	196901.270	5.0	213505.730	6.0
602.0811	28.01	-4.78	113177.610	3.5	129782.070	3.5
602.0942	18.01	-2.12	195128.270	4.5	211732.370	4.5
602.0982	18.01	-.27	195128.270	4.5	211732.260	5.5
602.1015	28.00	-4.69	43258.792	4.0	59862.690	5.0
602.1065	24.00	-2.69	46058.200	4.0	62661.960	3.0
602.1130	64.00	-1.05	6694.574	0.0	23302.752	0.0
602.1165	28.00	-4.49	42585.296	4.0	59188.780	3.0
602.1174	26.01	-5.80	22409.820	.5	39013.280	1.5
602.1177	29.01	-3.25	118532.150	2.0	135135.600	1.0
602.1178	9.00	-3.59	119081.820	.5	135685.270	1.5
602.1402	26.01	-7.23	26055.400	2.5	42658.230	3.5
602.1540	74.00	-1.43	17986.627	0.0	34593.674	0.0
602.1674	21.00	-1.39	17012.980	2.5	33615.060	1.5
602.1764	9.00	-2.47	117308.558	1.5	133910.390	.5
602.1794	26.00	-4.05	17726.985	2.0	34328.733	3.0
602.1819	25.00	-.17	24802.250	3.5	41403.930	2.5
602.1924	9.00	-1.68	116143.579	.5	132744.970	1.5
602.1953	17.00	-2.20	85244.330	.5	101845.640	1.5
602.1968	28.01	-.80	105668.780	2.5	122270.050	3.5
602.2095	25.02	-.91	215663.500	3.5	232264.420	3.5
602.2229	14.00	-4.03	47284.061	1.0	63884.610	1.0
602.2287	25.02	.23	179152.090	3.5	195752.480	2.5
602.2287	25.00	-3.63	34845.260	.5	51445.650	1.5
602.2408	22.00	-3.70	25388.334	4.0	41988.390	3.0
602.2439	28.01	-2.87	120166.520	1.5	136766.490	2.5
602.2497	28.01	-2.38	116312.340	1.5	132912.150	2.5
602.2661	23.00	-3.32	21646.390	3.5	38245.750	3.5
602.2806	24.00	-1.73	37205.880	3.0	53804.840	3.0
602.2908	26.02	-3.05	117950.320	4.0	134549.000	3.0
602.3150	63.00	-.37	15002.299	0.0	31604.907	0.0
602.3299	26.01	-4.28	44915.070	3.5	61512.670	4.5
602.3332	29.01	-2.23	117130.360	2.0	133727.870	2.0
602.3410	39.00	-2.52	0.000	0.0	16601.892	0.0
602.3639	14.00	-3.72	48020.074	1.0	64616.740	2.0
602.3673	24.00	-2.52	31377.960	4.0	47974.530	3.0
602.3816	9.00	-2.48	116987.394	3.5	133583.570	2.5
602.3890	22.00	-4.26	25227.217	3.0	41823.190	3.0
602.4034	26.00	-.53	36686.159	4.0	53281.735	5.0
602.4131	15.01	.15	86744.700	1.0	103340.010	2.0
602.4181	23.00	-.15	27470.880	3.5	44066.050	3.5
602.4290	28.01	-4.49	119913.330	4.5	136508.200	5.5
602.4356	23.00	-4.03	20828.480	2.5	37423.170	1.5
602.4388	24.00	-4.21	36577.730	4.0	53172.330	5.0
602.4421	29.01	-3.75	117231.690	1.0	133826.200	2.0
602.4468	28.01	-.62	104646.520	3.5	121240.900	3.5
602.4501	25.02	.31	176641.140	3.5	193235.430	2.5
602.5093	23.01	-4.79	18353.890	3.0	34946.550	4.0
602.5131	18.00	-1.61	107289.747	2.0	123882.300	1.0
602.5202	24.00	-2.61	31393.400	5.0	47985.760	5.0
602.5325	24.00	-2.56	33060.740	3.0	49652.760	2.0
602.5335	22.00	-4.11	19421.576	3.0	36013.570	2.0
602.5360	40.00	-2.73	1209.863	0.0	17806.382	0.0
602.5376	23.00	-3.58	14949.300	4.5	31541.180	3.5
602.5394	25.02	-1.37	215473.200	1.5	232065.030	2.5
602.5490	42.00	-.47	27262.242	0.0	43858.403	0.0
602.5520	22.00	-4.14	25227.217	3.0	41818.700	4.0
602.5720	59.01	-.82	11534.025	0.0	28129.552	0.0
602.5753	28.00	-1.19	34163.294	2.0	50754.137	2.0
602.6040	78.00	.14	40006.130	0.0	56600.776	0.0
602.6058	26.00	-4.41	37157.546	2.0	53747.547	3.0
602.6083	22.00	-4.01	30060.328	4.0	46650.260	3.0
602.6100	77.00	-2.51	13873.093	0.0	30467.574	0.0
602.6168	21.00	-.55	17025.360	1.5	33615.060	1.5
602.6248	24.00	-3.20	33060.740	3.0	49650.220	3.0
602.6317	22.00	-4.99	28896.062	5.0	45485.350	5.0
602.6713	24.00	-4.96	28637.000	3.0	45225.200	2.0
602.6800	23.01	-4.63	20617.050	2.0	37205.010	3.0
602.6833	18.01	-2.39	190507.360	1.5	207095.230	2.5
602.6956	28.01	-3.84	105499.050	3.5	122086.580	3.5
602.7018	10.01	-4.23	302247.780	3.5	318835.140	2.5
602.7057	26.00	-.71	32873.623	4.0	49460.876	5.0
602.7069	24.01	-3.62	53051.550	1.5	69638.770	1.5
602.7149	10.01	-2.84	302247.780	3.5	318834.780	3.5
602.7160	62.00	-1.23	3064.986	0.0	19656.548	0.0
602.7243	23.01	-2.37	19902.600	0.0	36489.340	1.0
602.7251	18.01	-1.82	173347.830	1.5	189934.550	.5
602.7270	42.00	-1.32	22745.421	0.0	39336.680	0.0
602.7295	22.00	-4.75	26494.322	2.0	43080.920	2.0
602.7942	26.00	-3.00	37162.729	3.0	53747.547	3.0
602.8103	22.00	-7.13	12118.394	4.0	28702.768	3.0
602.8108	25.00	-1.87	45130.160	4.5	61714.520	4.5
602.8225	18.01	-2.49	190511.190	2.5	207095.230	2.5
602.8243	26.02	-4.00	168477.360	1.0	185061.350	1.0
602.8257	23.01	-2.04	20089.560	1.0	36673.510	2.0
602.8350	74.00	-.26	29762.625	0.0	46350.917	0.0
602.8404	22.00	-4.84	25317.813	1.0	41901.360	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
602.8469	22.00	-3.24	29661.232	1.0	46244.600	2.0
602.8490	28.01	-.44	120316.020	.5	136899.330	1.5
602.8536	5.00	-2.65	48611.817	.5	65195.000	1.5
602.8556	6.00	-3.93	69744.030	3.0	86327.160	3.0
602.8672	17.00	-1.14	84648.100	2.5	101230.909	3.5
602.8802	23.00	-4.16	21032.520	3.5	37614.970	3.5
602.8810	24.00	-3.81	31048.000	7.0	47630.430	6.0
602.8835	26.02	-3.88	168420.990	2.0	185003.350	2.0
602.8872	26.02	.61	189679.070	3.0	206261.330	4.0
602.8944	27.00	-3.29	29294.520	3.5	45876.580	2.5
602.8959	23.01	-2.33	20622.990	3.0	37205.010	3.0
602.9000	63.00	.10	15324.929	0.0	31911.428	0.0
602.9184	5.00	-2.40	48613.600	1.5	65195.000	2.5
602.9184	5.00	-3.35	48613.600	1.5	65195.000	1.5
602.9221	28.00	-3.47	34163.294	2.0	50744.593	1.0
602.9228	28.01	-4.42	104646.520	3.5	121227.800	2.5
602.9293	24.00	-1.87	31049.330	6.0	47630.430	6.0
602.9424	28.01	-4.50	113407.310	2.5	129988.050	2.5
602.9501	24.00	-2.54	27500.370	3.0	44080.900	2.0
602.9544	17.00	-2.90	83130.900	1.5	99711.309	.5
602.9566	27.00	-8.86	8460.810	2.5	25041.160	1.5
602.9704	26.00	-4.66	35257.309	4.0	51837.279	3.0
602.9730	28.02	-4.25	121566.700	1.0	138146.600	0.0
602.9748	28.01	-4.61	117662.110	1.5	134241.960	.5
602.9750	41.00	-1.31	12582.573	0.0	29167.009	0.0
602.9868	14.00	-.42	48264.292	3.0	64843.810	4.0
602.9900	9.00	-1.02	117391.950	.5	133971.380	1.5
602.9933	28.01	-4.43	113408.710	1.5	129988.050	2.5
602.9997	10.00	-1.04	134459.287	1.0	151038.452	1.0
603.0181	25.01	-4.18	65565.680	4.0	82144.340	3.0
603.0283	23.00	-3.81	10892.500	3.5	27470.880	3.5
603.0660	42.00	-.71	12259.943	0.0	28841.876	0.0
603.0836	18.01	-2.04	191169.520	1.5	207746.380	2.5
603.1021	26.02	.75	196881.470	7.0	213457.820	7.0
603.1065	23.01	-2.11	20343.000	2.0	36919.230	3.0
603.1270	60.01	-1.49	10243.505	0.0	26823.761	0.0
603.1429	17.00	-1.83	84648.100	2.5	101223.330	2.5
603.1483	24.00	-3.38	31055.350	5.0	47630.430	6.0
603.1665	22.00	-4.95	26657.409	4.0	43231.990	4.0
603.1677	22.00	-4.00	386.874	4.0	16961.420	3.0
603.1840	41.00	-.97	15324.929	0.0	31903.618	0.0
603.2000	25.00	-.56	45940.930	2.5	62514.590	2.5
603.2044	23.01	-4.62	30306.400	3.0	46879.940	2.0
603.2120	24.00	-4.80	28682.180	2.0	45255.510	3.0
603.2120	18.00	-1.24	105462.804	3.0	122036.134	4.0
603.2349	28.01	-2.41	102742.740	1.5	119315.440	2.5
603.2492	28.00	-2.96	42653.723	2.0	59226.030	1.0
603.2604	26.02	.50	151757.670	2.0	168329.670	3.0
603.2610	40.00	-.98	11856.655	0.0	28433.228	0.0
603.2615	17.00	-1.74	84132.262	2.5	100704.230	1.5
603.2673	26.02	-.21	196886.010	6.0	213457.820	7.0
603.2986	28.01	-4.38	122270.050	3.5	138841.000	3.5
603.3077	15.00	-2.97	64239.500	.5	80810.200	1.5
603.3143	25.01	-4.79	65565.680	4.0	82136.200	4.0
603.3230	62.01	-1.99	9356.272	0.0	25931.142	0.0
603.3319	9.00	-1.65	116987.394	3.5	133557.430	2.5
603.3437	28.00	-2.23	42656.317	1.0	59226.030	1.0
603.3511	24.00	-3.91	46077.090	1.0	62646.600	2.0
603.3933	24.00	-1.75	27500.370	3.0	44068.720	3.0
603.4025	26.00	-2.45	34782.406	5.0	51350.505	4.0
603.4035	15.01	-.20	86598.300	0.0	103166.370	1.0
603.4090	55.00	-2.00	11732.308	0.0	28304.815	0.0
603.4158	28.00	-3.08	42621.048	3.0	59188.780	3.0
603.4200	58.01	-1.02	11695.340	0.0	28267.545	0.0
603.4231	17.00	-1.21	84485.309	1.5	101052.840	2.5
603.4240	60.01	-1.13	12340.601	0.0	28912.696	0.0
603.4312	28.01	-4.43	120199.180	1.5	136766.490	2.5
603.4352	23.01	-3.54	30613.970	4.0	47181.170	3.0
603.4385	25.02	-.56	216194.050	5.5	232761.160	5.5
603.4709	28.01	-2.46	120166.520	1.5	136732.740	1.5
603.4968	24.00	-3.82	31352.420	1.0	47917.930	2.0
603.5004	24.00	-4.09	36552.130	3.0	53117.540	4.0
603.5157	10.01	-2.98	302247.780	3.5	318812.770	3.5
603.5332	26.00	-2.54	34636.820	2.0	51201.330	2.0
603.5394	10.01	-1.66	302247.780	3.5	318812.120	4.5
603.5490	58.01	-.86	12905.203	0.0	29473.866	0.0
603.5521	26.02	-.54	181772.590	6.0	198336.580	5.0
603.5660	18.00	-2.93	108722.668	0.0	125286.280	1.0
603.5872	7.01	-.30	209925.760	2.0	226488.790	3.0
603.5879	24.00	-3.60	35501.260	3.0	52064.270	4.0
603.5962	28.01	-4.23	115108.090	2.5	131670.670	2.5
603.6349	28.01	-3.02	116167.760	1.5	132729.480	2.5
603.6549	26.02	.76	181772.590	6.0	198333.760	6.0
603.6553	25.02	-.66	215917.520	4.5	232478.680	4.5
603.6666	26.00	-4.77	26351.049	5.0	42911.897	5.0
603.6731	24.00	-3.75	37244.170	4.0	53804.840	3.0
603.6791	2.01	-1.23	421353.130	0.0	437918.222	0.0
603.6947	17.00	-2.02	84485.309	1.5	101045.386	1.5
603.6968	28.01	-3.30	101754.800	2.5	118314.820	2.5
603.6994	24.00	-2.43	33060.740	3.0	49620.690	4.0
603.7100	14.00	-2.04	48102.323	2.0	64661.980	3.0
603.7198	28.01	-.50	103663.500	1.5	120222.890	1.5
603.7205	22.00	-3.15	29971.078	4.0	46530.450	4.0
603.7341	22.00	-2.63	25493.722	2.0	42052.720	3.0
603.7346	22.00	-3.19	18141.229	5.0	34700.212	5.0
603.7384	7.01	-1.35	209925.760	2.0	226484.640	2.0
603.7409	28.01	-2.53	120166.520	1.5	136725.330	.5
603.7420	28.01	-4.23	98561.220	2.5	115120.000	2.5
603.7583	28.00	-3.53	35639.148	3.0	52197.482	3.0
603.7700	90.00	-2.28	3790.903	0.0	20353.501	0.0
603.7730	17.00	-3.16	85442.430	1.5	102000.360	1.5
603.7843	25.02	-.06	176390.670	2.5	192948.290	1.5
603.7953	10.01	-4.19	302247.780	3.5	318805.100	2.5
603.8016	9.00	-.87	116987.394	3.5	133544.540	3.5
603.8031	22.00	-4.34	26772.965	5.0	43330.070	5.0
603.8099	7.01	-3.27	209925.760	2.0	226482.680	3.0
603.8148	22.00	-2.06	17423.853	2.0	33980.639	2.0
603.8179	26.00	-4.91	29356.780	2.0	45913.480	3.0
603.8252	9.02	-3.18	441158.600	1.5	457715.100	2.5
603.8590	57.00	-.97	7420.492	0.0	23980.649	0.0
603.8939	9.00	-1.47	116040.883	1.5	132595.500	2.5
603.9076	26.02	-.42	189679.070	3.0	206233.310	2.0
603.9080	23.00	-4.57	34030.040	1.5	50584.270	1.5
603.9126	17.00	-2.18	84485.309	1.5	101039.413	.5
603.9143	22.00	-2.27	25317.813	1.0	41871.870	2.0
603.9157	6.00	-4.55	72610.720	2.0	89164.740	1.0
603.9256	22.00	-2.78	25317.813	1.0	41871.560	0.0
603.9298	28.00	-2.56	34163.294	2.0	50716.927	1.0
603.9310	24.00	-3.42	31364.330	3.0	47917.930	2.0
603.9335	23.00	-3.20	20789.130	2.5	37342.660	2.5
603.9383	30.02	-.77	220006.600	1.0	236560.000	0.0
603.9576	25.02	.52	176945.200	4.5	193498.070	3.5
603.9600	92.00	-1.25	8065.752	0.0	24623.140	0.0
603.9638	24.00	-2.21	46109.260	2.0	62661.960	3.0
603.9671	9.02	-.32	441406.460	3.5	457959.070	3.5
603.9733	23.00	-.68	8578.520	2.5	25130.960	2.5
603.9806	6.00	-4.54	81325.760	1.0	97878.000	2.0
603.9959	28.01	-1.96	105588.890	4.5	122140.710	4.5
604.0014	25.02	-4.87	176683.760	2.5	193235.430	2.5
604.0076	28.01	-3.86	99040.750	1.5	115592.250	1.5
604.0083	6.00	-4.32	72610.720	2.0	89162.200	2.0
604.0142	28.00	-1.13	45281.152	3.0	61832.470	4.0
604.0263	17.00	-1.47	83130.900	1.5	99681.887	1.5
604.0302	25.01	-3.23	55696.500	4.0	72247.380	3.0
604.0306	28.01	-3.56	115120.000	2.5	131670.870	2.5
604.0441	24.00	-1.25	27500.370	3.0	44050.870	4.0
604.0594	29.01	-3.81	130386.400	2.0	146936.480	2.0
604.0611	14.00	-3.44	40991.884	1.0	57541.918	1.0
604.0656	28.01	-2.30	116893.980	2.5	133443.890	2.5
604.0809	22.00	-3.73	25438.898	2.0	41988.390	3.0
604.0890	24.00	-3.75	37233.500	5.0	53782.770	4.0
604.1029	24.00	-3.81	31393.400	5.0	47942.290	6.0
604.1266	28.01	-2.02	105499.050	3.5	122047.290	3.5
604.1624	26.01	-9.50	25787.600	1.5	42334.860	2.5
604.1660	71.00	-1.01	21051.613	0.0	37603.355	0.0
604.1748	25.00	-2.22	30354.210	3.5	46901.130	2.5
604.1835	23.01	-2.63	34228.790	3.0	50775.470	2.0
604.1952	25.00	-.70	45754.270	3.5	62300.630	4.5
604.2190	17.00	-2.74	85442.430	1.5	101988.140	2.5
604.2197	28.01	-4.90	120002.860	3.5	136548.550	2.5
604.2202	26.00	-3.67	37521.144	2.0	54066.821	2.0
604.2215	23.00	-3.01	9636.960	1.5	26182.600	.5
604.2306	24.01	-3.34	52298.120	3.5	68843.510	3.5
604.2392	14.00	-4.30	48102.323	2.0	64647.480	3.0
604.2456	6.00	-2.92	72610.720	2.0	89155.700	3.0
604.2518	25.02	-1.20	215520.220	2.5	232065.030	2.5
604.2540	18.01	-4.76	187589.230	2.5	204133.980	2.5
604.2647	14.00	-2.79	48102.323	2.0	64646.780	2.0
604.2676	18.01	-1.60	190732.970	.5	207277.350	1.5
604.2716	28.01	-4.04	120002.860	3.5	136547.130	3.5
604.2717	22.00	-3.15	29986.185	3.0	46530.450	4.0
604.2880	28.01	-1.26	104646.520	3.5	121190.340	4.5
604.2924	26.02	.45	189784.520	2.0	206328.220	3.0
604.2946	28.01	-3.54	120002.860	3.5	136546.500	4.5
604.2960	28.01	-4.05	120222.890	1.5	136766.490	2.5
604.3056	15.01	.44	87125.400	2.0	103668.740	3.0
604.3172	24.00	-4.17	28682.180	2.0	45225.200	2.0
604.3215	18.00	-1.32	105617.315	2.0	122160.220	3.0
604.3270	18.00	-3.19	107289.747	2.0	123832.500	3.0
604.3330	74.00	-.10	31295.118	0.0	47842.287	0.0
604.3390	58.01	-.73	9678.902	0.0	26225.906	0.0
604.3687	24.01	-3.67	53566.220	3.5	70107.830	4.5
604.3923	22.00	-1.47	25643.695	3.0	42184.660	4.0
604.3943	26.02	-4.32	206233.310	2.0	222774.220	2.0
604.3954	28.01	-4.13	115209.850	3.5	131750.730	3.5
604.4133	25.00	-1.16	45754.270	3.5	62294.660	3.5
604.4140	26.02	-.35	189784.520	2.0	206324.890	2.0
604.4279	28.01	-.74	103663.500	1.5	120203.490	2.5
604.4364	22.00	-3.45	26494.322	2.0	43034.080	1.0
604.4389	23.00	-4.36	20687.750	1.5	37227.440	2.5
604.4389	23.01	-3.78	20980.920	2.0	37520.610	3.0
604.4487	28.01	-4.26	120002.860	3.5	136542.280	3.5
604.4506	28.01	-2.45	101754.800	2.5	118294.170	3.5
604.4528	26.01	-5.46	25428.800	5.5	41968.110	5.5
604.4643	17.00	-3.12	84688.637	.5	101227.630	.5
604.4660	63.00	-.36	15163.614	0.0	31707.142	0.0
604.4787	24.00	-4.91	37244.170	4.0	53782.770	4.0
604.4869	22.00	-2.05	17540.205	3.0	34078.580	3.0
604.4904	9.02	-1.03	466982.860	2.5	483521.140	3.5
604.5000	62.00	-1.03	2258.411	0.0	18801.008	0.0
604.5003	28.01	-2.81	116191.470	2.5	132729.480	2.5
604.5222	18.01	-3.30	186470.280	1.5	203007.690	1.5
604.5248	24.00	-4.40	33060.740	3.0	49598.080	2.0
604.5248	24.00	-3.06	46109.260	2.0	62646.600	2.0
604.5288	23.02	-4.12	146223.050	3.5	162760.280	4.5
604.5299	30.02	-2.47	217846.800	2.0	234384.000	3.0
604.5334	18.00	-3.74	107289.747	2.0	123826.850	2.0
604.5390	24.00	-2.39	33113.270	4.0	49650.220	3.0
604.5390	73.00	-1.36	11130.738	0.0	27672.268	0.0
604.5452	25.01	-3.25	53805.800	4.0	70342.580	3.0
604.5471	24.00	-3.94	31049.330	6.0	47586.060	5.0
604.5500	41.00	-1.27	12905.203	0.0	29446.432	0.0
604.5504	26.01	-2.73	50076.100	1.5	66612.740	1.5
604.5518	30.02	-.18	217073.800	2.0	233610.400	2.0
604.5537	18.01	-.35	192712.000	1.5	209248.550	2.5
604.5683	29.01	-4.62	136919.350	3.0	153455.500	4.0
604.5818	28.01	-4.36	120189.550	.5	136725.330	.5
604.5850	40.00	-.33	14679.669	0.0	31219.940	0.0
604.5855	28.01	-.91	103663.500	1.5	120199.180	1.5
604.5920	30.02	-1.87	218040.500	3.0	234576.000	4.0
604.6082	28.00	-2.57	42653.723	2.0	59188.780	3.0
604.6122	25.02	-4.31	115762.600	1.5	132297.550	2.5
604.6134	10.00	-2.19	150121.592	1.0	166656.508	1.0
604.6173	20.02	-.61	322663.280	0.0	339198.090	1.0
604.6233	8.00	-1.78	88630.599	1.0	105165.244	1.0
604.6286	30.02	-.29	218041.500	4.0	234576.000	4.0
604.6438	8.00	-1.56	88631.158	2.0	105165.244	1.0
604.6466	6.00	-3.91	81343.990	2.0	97878.000	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
604.6495	8.00	-2.26	88631.315	0.0	105165.244	1.0
604.6630	28.01	-4.28	120199.180	1.5	136732.740	1.5
604.6809	28.01	-2.23	116468.400	1.5	133001.470	.5
604.6835	28.01	-2.47	98467.250	3.5	115000.250	3.5
604.6901	18.01	-3.00	174409.830	1.5	190942.650	.5
604.6933	26.02	-4.35	206233.310	2.0	222766.040	3.0
604.7010	25.02	-.49	176209.150	1.5	192741.670	.5
604.7186	9.00	-4.33	130374.860	1.5	146906.900	1.5
604.7194	9.02	-1.19	466978.150	1.5	483510.170	2.5
604.7223	6.00	-2.88	72610.720	2.0	89142.660	2.0
604.7250	73.00	-1.63	12179.286	0.0	28715.728	0.0
604.7299	23.00	-2.09	26021.890	3.5	42553.620	4.5
604.7534	9.00	-1.99	102405.710	2.5	118936.797	1.5
604.7672	24.00	-1.91	31055.350	5.0	47586.060	5.0
604.7702	26.02	-3.57	168420.990	2.0	184951.620	3.0
604.7724	28.01	-1.46	119796.980	2.5	136327.550	1.5
604.7764	24.00	-2.63	35501.260	3.0	52031.720	3.0
604.7830	42.00	-.90	25568.434	0.0	42103.290	0.0
604.7840	22.00	-3.29	25227.217	3.0	41757.470	3.0
604.7961	26.02	-.09	181808.700	5.0	198338.620	4.0
604.8053	23.00	-4.43	20812.990	1.5	37342.660	2.5
604.8130	26.01	-3.92	50142.930	2.5	66672.390	3.5
604.8152	28.02	-4.87	97841.400	2.0	114370.800	2.0
604.8207	28.01	-3.99	120203.490	2.5	136732.740	1.5
604.8294	28.01	-3.75	115108.090	2.5	131637.100	3.5
604.8349	26.02	.25	189796.030	1.0	206324.890	2.0
604.8402	22.00	-2.67	25388.334	4.0	41917.050	4.0
604.8660	23.00	-2.55	9824.580	2.5	26352.590	2.5
604.8708	26.02	.64	181808.700	5.0	198336.580	5.0
604.8720	41.00	-1.04	17341.367	0.0	33873.790	0.0
604.8726	24.00	-2.08	39158.630	4.0	55686.460	5.0
604.8727	22.00	-2.98	18911.399	2.0	35439.228	1.0
604.8818	23.01	-7.53	20622.990	3.0	37150.570	4.0
604.8832	9.00	-2.14	117391.950	.5	133919.490	1.5
604.8887	10.01	-3.92	302307.750	2.5	318835.140	2.5
604.8916	9.02	-2.27	466982.860	2.5	483510.170	2.5
604.9019	10.01	-2.77	302307.750	2.5	318834.780	3.5
604.9070	18.01	-1.78	179592.130	2.5	196119.020	3.5
604.9096	27.00	-.13	36329.860	2.5	52856.680	3.5
604.9240	40.00	.05	19680.435	0.0	36211.437	0.0
604.9378	28.01	-1.12	103663.500	1.5	120189.550	.5
604.9400	26.02	-3.58	168477.360	1.0	185003.350	2.0
604.9429	24.00	-3.05	48310.390	5.0	64836.300	6.0
604.9475	18.00	-3.40	107289.747	2.0	123815.530	1.0
604.9510	63.01	-1.38	10243.505	0.0	26773.769	0.0
604.9678	28.01	-3.49	99040.750	1.5	115565.980	2.5
604.9714	24.00	-3.71	31352.420	1.0	47877.550	1.0
604.9740	26.02	-.85	181808.700	5.0	198333.760	6.0
604.9920	74.00	-1.79	18873.860	0.0	35403.004	0.0
604.9953	18.01	-1.70	187589.230	2.5	204113.710	1.5
604.9963	17.00	-2.82	84648.100	2.5	101172.553	1.5
604.9989	18.01	-4.15	185624.730	3.5	202149.110	2.5
605.0205	25.02	-1.41	179228.690	1.5	195752.480	2.5
605.0223	25.00	-3.47	25265.740	5.5	41789.480	4.5
605.0293	25.02	-2.67	115774.000	3.5	132297.550	2.5
605.0480	92.00	-2.13	3790.903	0.0	20318.517	0.0
605.0542	25.00	-.45	46901.130	2.5	63424.000	3.5
605.0670	92.00	-1.70	7259.177	0.0	23786.272	0.0
605.0677	22.00	-4.59	19573.968	4.0	36096.470	3.0
605.0710	24.00	-4.24	28679.430	1.0	45201.840	1.0
605.0736	24.00	-3.06	31355.210	2.0	47877.550	1.0
605.0746	7.00	-1.77	93581.520	.5	110103.834	1.5
605.0784	24.01	-2.46	52321.300	4.5	68843.510	3.5
605.0813	29.01	-1.59	133727.870	2.0	150250.000	2.0
605.1022	28.01	-4.51	120002.860	3.5	136524.420	4.5
605.1116	17.01	-4.70	145468.500	1.0	161989.800	1.0
605.1183	26.00	-7.91	7985.783	2.0	24506.902	2.0
605.1377	23.00	-3.20	21603.170	4.5	38123.760	4.5
605.1718	24.00	-4.72	28682.180	2.0	45201.840	1.0
605.1735	22.00	-3.22	25438.898	2.0	41958.510	2.0
605.1970	23.01	-4.97	20522.140	1.0	37041.110	2.0
605.2013	18.00	-2.70	107289.747	2.0	123808.600	2.0
605.2047	7.01	-2.82	170572.610	2.0	187091.370	2.0
605.2080	26.01	-4.84	83305.370	3.5	99824.040	2.5
605.2164	9.00	-2.26	117391.950	.5	133910.390	.5
605.2417	28.01	-3.00	101246.160	.5	117763.910	1.5
605.2575	25.02	-3.20	115780.230	2.5	132297.550	2.5
605.2585	26.00	-4.06	34362.860	1.0	50080.152	1.0
605.2634	16.00	-.70	63474.101	3.0	79991.260	4.0
605.2656	28.01	-2.94	115120.000	2.5	131637.100	3.5
605.2717	18.00	-2.96	104102.144	1.0	120619.076	2.0
605.2722	26.02	-4.60	206233.310	2.0	222750.230	3.0
605.2850	25.00	-4.21	38669.600	3.5	55186.170	2.5
605.2861	28.01	-3.91	101247.370	2.5	117763.910	1.5
605.2863	22.00	-3.25	26564.385	3.0	43080.920	2.0
605.2900	70.01	-1.22	32827.611	0.0	49348.617	0.0
605.2941	28.01	-4.42	120250.170	3.5	136766.490	2.5
605.3143	23.00	-3.06	15270.420	1.5	31786.190	.5
605.3297	24.00	-4.61	36558.550	2.0	53073.900	3.0
605.3356	25.01	-2.79	86190.180	2.0	102705.370	3.0
605.3372	22.00	-3.82	25388.334	4.0	41903.480	5.0
605.3425	24.01	-2.36	38269.670	3.5	54784.670	3.5
605.3506	26.01	-4.11	50157.610	4.5	66672.390	3.5
605.3639	14.00	-3.84	48102.323	2.0	64616.740	2.0
605.3640	73.00	-2.55	9598.245	0.0	26117.232	0.0
605.3680	28.00	-1.43	34163.294	2.0	50677.599	3.0
605.3719	22.00	-2.65	27740.190	2.0	44254.390	3.0
605.3885	26.00	-4.63	26623.726	2.0	43137.472	3.0
605.3898	24.00	-3.73	48288.370	4.0	64802.080	5.0
605.4034	23.00	-4.06	17181.980	4.5	33695.320	5.5
605.4060	26.00	-2.63	35257.309	4.0	51770.577	3.0
605.4170	72.00	-1.82	14437.696	0.0	30955.237	0.0
605.4177	26.02	.46	181825.670	4.0	198338.620	4.0
605.4349	23.00	-4.25	21603.170	4.5	38115.650	3.5
605.4419	24.00	-3.23	33060.740	3.0	49573.030	4.0
605.4434	20.02	-3.88	373880.370	3.0	390392.620	3.0
605.4488	29.01	-3.08	118163.500	2.0	134675.600	2.0
605.4727	26.01	-4.26	61726.090	3.5	78237.540	3.5
605.4749	26.02	-.34	181825.670	4.0	198337.060	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
605.4785	26.02	-.39	189784.520	2.0	206295.810	1.0
605.4810	42.00	-1.81	18147.942	0.0	34663.737	0.0
605.4826	24.00	-3.78	35501.260	3.0	52012.440	2.0
605.4925	26.02	-.54	181825.670	4.0	198336.580	5.0
605.5030	71.00	-2.26	1935.780	0.0	18450.975	0.0
605.5167	23.00	-4.61	20606.430	.5	37116.680	.5
605.5185	13.02	-.73	188877.570	2.5	205387.770	1.5
605.5423	13.02	-1.68	188878.220	1.5	205387.770	1.5
605.5431	15.01	.04	107923.570	2.0	124433.100	1.0
605.5706	25.02	.24	178386.000	.5	194894.780	1.5
605.5772	26.02	-.46	181830.020	3.0	198338.620	4.0
605.5845	26.02	-.56	181828.660	2.0	198337.060	3.0
605.5971	26.00	-.56	38175.332	3.0	54683.390	4.0
605.6205	24.00	-3.07	33113.270	4.0	49620.690	4.0
605.6344	26.02	.38	181830.020	3.0	198337.060	3.0
605.6491	28.01	-1.14	105668.780	2.5	122175.420	2.5
605.6491	28.01	-4.59	101366.140	2.5	117872.780	2.5
605.6645	28.01	-1.89	94067.140	1.5	110573.360	2.5
605.6650	41.00	-1.22	15324.929	0.0	31835.706	0.0
605.6780	41.00	-1.22	15324.929	0.0	31835.352	0.0
605.6800	92.00	-2.38	0.000	0.0	16510.369	0.0
605.7065	22.00	-4.24	8602.340	2.0	25107.417	2.0
605.7070	92.00	-1.59	6210.629	0.0	22720.262	0.0
605.7086	10.01	-2.77	302307.750	2.5	318812.770	3.5
605.7130	26.02	.28	181828.660	2.0	198333.560	2.0
605.7130	25.00	-1.77	35041.370	3.5	51546.270	4.5
605.7199	26.02	-4.94	206261.330	4.0	222766.040	3.0
605.7225	26.02	-4.40	206261.330	4.0	222765.970	4.0
605.7291	28.01	-4.16	100389.520	2.5	116893.980	2.5
605.7335	24.00	-2.86	33113.270	4.0	49617.610	5.0
605.7360	63.00	.04	15566.901	0.0	32075.743	0.0
605.7442	25.00	-4.46	25285.430	4.5	41789.480	4.5
605.7574	10.01	-4.95	305566.940	1.5	322070.630	2.5
605.7629	26.02	-.50	181830.020	3.0	198333.560	2.0
605.7820	28.01	-3.45	103663.500	1.5	120166.520	1.5
605.7864	15.01	-1.27	112607.700	2.0	129110.600	1.0
605.7912	17.00	-2.77	85442.430	1.5	101945.200	.5
605.7912	17.00	-3.39	85442.430	1.5	101945.200	1.5
605.8113	23.00	-1.42	8412.940	.5	24915.160	1.5
605.8139	24.00	-4.93	31364.330	3.0	47866.480	4.0
605.8227	27.00	-1.78	31699.690	4.5	48201.600	3.5
605.8359	28.01	-4.98	120044.950	4.5	136546.500	4.5
605.8436	26.02	.43	189679.070	3.0	206180.410	3.0
605.8730	22.00	-3.44	8602.340	2.0	25102.880	2.0
605.8760	26.00	-7.55	12968.552	2.0	29469.010	2.0
605.9009	26.02	-.06	189796.030	1.0	206295.810	1.0
605.9108	24.00	-3.44	48251.910	3.0	64751.420	4.0
605.9244	21.01	-2.98	10944.510	2.0	27443.650	2.0
605.9296	30.02	-.44	221143.700	3.0	237642.700	3.0
605.9362	25.02	.22	178816.960	2.5	195315.760	2.5
605.9730	92.01	-2.50	5565.369	0.0	22067.754	0.0
605.9758	18.01	-4.27	179592.130	2.5	196089.870	2.5
605.9781	28.01	-4.28	120268.810	3.5	136766.490	2.5
605.9839	13.02	-.99	188878.220	1.5	205375.740	.5
605.9902	10.01	-4.28	302307.750	2.5	318805.100	2.5
606.0026	28.00	-2.80	42621.048	3.0	59116.060	2.0
606.0056	25.01	-3.67	52718.800	0.0	69215.730	1.0
606.0078	24.01	-4.64	32855.090	2.5	49351.960	2.5
606.0148	28.00	-4.55	40361.254	3.0	56857.933	4.0
606.0177	24.00	-3.01	46174.400	3.0	62671.000	4.0
606.0273	25.01	-2.80	98461.760	1.0	114956.100	0.0
606.0361	13.01	-3.61	125866.700	1.0	142362.800	2.0
606.0361	13.01	-4.08	125866.700	1.0	142362.800	1.0
606.0427	24.00	-4.60	24897.550	4.0	41393.470	5.0
606.0501	6.00	-2.33	69689.480	1.0	86185.200	2.0
606.0626	26.00	-5.72	12560.933	3.0	29056.312	3.0
606.0725	26.02	-4.59	206328.220	3.0	222823.330	4.0
606.0787	26.00	-3.08	34039.495	4.0	50534.435	3.0
606.0791	24.00	-2.69	48445.350	6.0	64940.280	7.0
606.0861	25.01	-2.80	98461.760	1.0	114956.500	1.0
606.0887	22.00	-2.29	25493.722	2.0	41988.390	3.0
606.0941	28.01	-3.55	120271.970	2.5	136766.490	2.5
606.1055	24.00	-3.86	48217.830	2.0	64712.040	3.0
606.1066	26.01	-2.37	62945.120	3.5	79439.300	3.5
606.1074	25.01	-2.50	98462.340	2.0	114956.500	1.0
606.1096	13.01	-1.37	125866.700	1.0	142360.800	0.0
606.1268	17.00	-2.98	85917.937	.5	102411.570	.5
606.1276	23.00	-4.25	20828.480	2.5	37322.090	3.5
606.1324	28.01	-3.43	93528.440	3.5	110021.920	4.5
606.1346	22.00	-2.37	27887.740	3.0	44381.160	4.0
606.1467	17.00	-2.36	84648.100	2.5	101141.190	3.5
606.1570	7.01	-2.84	188857.370	2.0	205350.180	2.0
606.1776	25.00	-2.57	44978.980	1.5	61471.230	2.5
606.1982	24.00	-4.43	48310.390	5.0	64802.080	5.0
606.2007	28.01	-.66	119796.980	2.5	136288.600	2.5
606.2089	6.00	-3.32	71352.510	0.0	87843.910	1.0
606.2147	22.00	-1.91	30039.211	5.0	46530.450	4.0
606.2184	28.01	-1.81	103653.030	3.5	120144.170	2.5
606.2300	92.00	-1.78	4194.191	0.0	20689.581	0.0
606.2330	22.00	-3.22	26657.409	4.0	43148.150	3.0
606.2408	24.00	-4.15	33762.740	6.0	50253.270	5.0
606.2551	25.01	-3.65	98461.760	1.0	114951.900	2.0
606.2765	25.01	-2.65	98462.340	2.0	114951.900	2.0
606.2790	25.02	.02	176390.670	2.5	192880.160	3.5
606.2855	26.00	-3.90	17550.180	3.0	34039.495	4.0
606.2880	40.00	-2.18	564.603	0.0	17058.415	0.0
606.2882	25.00	-2.34	35041.370	3.5	51530.610	3.5
606.2890	25.00	-1.65	46083.890	1.5	62573.110	1.5
606.2982	28.01	-4.59	118294.170	3.5	134783.140	2.5
606.3007	26.02	-4.50	206261.330	4.0	222750.230	3.0
606.3025	7.00	-3.34	97770.150	.5	114259.000	1.5
606.3066	25.01	-2.27	98463.160	3.0	114951.900	2.0
606.3120	56.00	.21	9215.000	0.0	25708.159	0.0
606.3147	24.00	-3.96	31377.960	4.0	47866.480	4.0
606.3320	23.00	-3.07	14910.040	3.5	31398.090	2.5
606.3401	27.00	-4.38	29735.180	3.5	46223.010	4.5
606.3500	24.00	-3.18	46174.400	3.0	62661.960	3.0
606.3657	22.00	-4.36	25227.217	3.0	41714.350	2.0
606.3750	23.00	-4.61	34167.840	2.5	50654.720	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
606.3993	14.00	-4.49	47284.061	1.0	63770.280	1.0
606.4239	25.00	-.73	45940.930	2.5	62426.480	3.5
606.4328	28.01	-2.44	105439.850	1.5	121925.160	.5
606.4537	10.00	-1.77	150121.592	1.0	166606.333	0.0
606.4556	7.00	-2.46	97805.810	1.5	114290.500	2.5
606.4629	22.00	-1.69	8436.618	0.0	24921.110	1.0
606.4648	26.01	-2.89	50187.950	3.5	66672.390	3.5
606.4714	18.01	-3.65	179592.130	2.5	196076.390	1.5
606.4746	18.00	-3.78	107289.747	2.0	123773.920	3.0
606.4841	17.00	-2.54	84688.637	.5	101172.553	1.5
606.5001	7.01	-3.10	170607.890	1.0	187091.370	2.0
606.5090	74.00	-1.55	20890.298	0.0	37378.100	0.0
606.5406	23.02	-1.52	145902.730	4.5	162385.110	3.5
606.5488	26.00	-1.49	21038.987	2.0	37521.144	2.0
606.5523	25.02	-3.49	121117.140	3.5	137599.200	3.5
606.5546	6.00	-3.32	71364.900	1.0	87846.900	0.0
606.5707	25.01	-3.65	98462.340	2.0	114943.900	3.0
606.5722	25.00	-3.64	30419.610	2.5	46901.130	2.5
606.5884	26.02	-4.82	206295.810	1.0	222776.890	1.0
606.5899	17.00	-3.65	85244.330	.5	101725.370	1.5
606.5925	7.01	-1.90	210239.830	1.0	226720.800	2.0
606.6009	25.01	-2.63	98463.160	3.0	114943.900	3.0
606.6377	25.01	-2.07	98464.160	4.0	114943.900	3.0
606.6421	24.00	-4.38	33040.100	2.0	49519.720	3.0
606.6458	28.01	-3.89	119913.330	4.5	136392.850	3.5
606.6539	13.01	-1.86	125700.500	0.0	142179.800	1.0
606.6646	6.00	-4.07	71364.900	1.0	87843.910	1.0
606.6683	22.01	-2.81	52471.480	2.5	68950.390	3.5
606.6723	16.01	-3.06	114162.200	.5	130641.000	1.5
606.6734	7.01	-1.38	210239.830	1.0	226718.600	1.0
606.6999	28.01	-2.13	117763.910	1.5	134241.960	.5
606.7140	57.01	-3.06	6129.972	0.0	22612.203	0.0
606.7143	6.00	-3.59	71352.510	0.0	87830.170	1.0
606.7250	23.00	-.82	21646.390	3.5	38123.760	4.5
606.7312	25.01	-3.75	72648.800	4.0	89126.000	3.0
606.7493	28.01	-3.61	115209.850	3.5	131686.560	4.5
606.7526	24.01	-4.60	74114.480	3.5	90591.100	2.5
606.7624	14.00	-2.98	40991.884	1.0	57468.239	2.0
606.7673	24.00	-3.22	28637.000	3.0	45113.220	3.0
606.7677	28.01	-2.22	105668.780	2.5	122144.990	2.5
606.7775	22.00	-2.12	29768.655	2.0	46244.600	2.0
606.7830	77.00	.38	39764.157	0.0	56244.513	0.0
606.7950	24.01	-3.10	53923.570	4.5	70399.040	5.5
606.7968	25.00	-3.54	30425.710	1.5	46901.130	2.5
606.8292	6.00	-3.15	69710.660	2.0	86185.200	2.0
606.8354	26.00	-2.36	36686.159	4.0	53160.530	3.0
606.8447	24.00	-1.00	38730.670	2.0	55204.790	3.0
606.8454	11.02	-3.90	418556.900	.5	435031.000	.5
606.8639	13.01	-1.38	125706.200	1.0	142179.800	1.0
606.8649	28.01	-2.99	57420.160	2.5	73893.730	1.5
606.8680	57.00	-1.06	7178.519	0.0	23656.567	0.0
606.8830	24.00	-2.45	31393.400	5.0	47866.480	4.0
606.8944	23.00	-3.69	17054.870	2.5	33527.640	2.5
606.9154	24.00	-3.95	46174.400	3.0	62646.600	2.0
606.9272	22.00	-2.42	15156.787	4.0	31628.668	5.0
606.9457	6.00	-3.62	72610.720	2.0	89082.100	3.0
606.9637	24.01	-4.15	53923.570	4.5	70394.460	4.5
606.9736	23.00	-4.34	21032.520	3.5	37503.140	2.5
606.9891	25.00	-4.59	38934.940	2.5	55405.140	2.5
606.9920	22.00	-4.91	30060.328	4.0	46530.450	4.0
606.9975	18.01	-4.58	186074.350	2.5	202544.320	2.5
606.9998	20.02	.47	324110.240	4.0	340580.150	3.0
607.0035	26.01	-3.52	50142.930	2.5	66612.740	1.5
607.0060	62.00	-1.13	1451.835	0.0	17926.137	0.0
607.0086	24.01	-3.12	38315.000	2.5	54784.670	3.5
607.0090	18.00	-3.30	105617.315	2.0	122086.974	2.0
607.0238	23.00	-4.23	21646.390	3.5	38115.650	3.5
607.0267	6.00	-3.26	72610.720	2.0	89079.900	2.0
607.0319	25.01	-3.95	98463.160	3.0	114932.200	4.0
607.0344	26.00	-3.29	36686.159	4.0	53155.130	4.0
607.0422	24.00	-4.73	25106.340	3.0	41575.100	3.0
607.0517	17.01	-2.86	161348.400	1.0	177816.900	2.0
607.0570	9.00	-3.75	117622.923	2.5	134091.280	1.5
607.0632	7.00	-2.77	97805.810	1.5	114274.000	2.5
607.0650	27.00	-.32	36875.130	1.5	53343.270	1.5
607.0684	25.00	-4.81	34463.370	1.5	50931.420	2.5
607.0687	25.01	-2.77	98464.160	4.0	114932.200	4.0
607.0751	37.00	-1.96	12578.950	0.0	29051.377	0.0
607.0835	6.00	-3.24	71364.900	1.0	87832.540	2.0
607.1052	25.00	-3.94	45013.550	2.5	61480.600	3.5
607.1052	25.01	-1.91	98465.150	5.0	114932.200	4.0
607.1318	14.00	-2.63	47284.061	1.0	63750.390	1.0
607.1439	25.01	-1.42	100682.300	4.0	117148.300	5.0
607.1709	6.00	-4.08	71364.900	1.0	87830.170	1.0
607.1834	27.00	-4.06	23184.230	2.5	39649.160	3.5
607.1886	22.00	-3.75	25493.722	2.0	41958.510	2.0
607.2050	57.00	-1.46	8388.382	0.0	24857.285	0.0
607.2053	28.00	-2.24	42653.723	2.0	59118.060	2.0
607.2291	29.01	-2.52	117130.360	2.0	133594.050	3.0
607.2411	22.00	-2.08	25643.695	3.0	42107.060	4.0
607.2454	28.01	-3.99	120044.950	4.5	136508.200	5.5
607.2476	25.02	-4.23	121197.050	2.5	137660.240	3.5
607.2509	25.02	-2.11	178386.000	.5	194849.100	1.5
607.2741	26.02	-4.93	206295.810	1.0	222758.280	2.0
607.2744	22.00	-2.78	25438.898	2.0	41901.360	1.0
607.2897	7.00	-4.56	97770.150	.5	114232.200	1.5
607.2959	24.01	-3.70	52298.120	3.5	68760.000	3.5
607.2979	9.00	-3.25	117622.923	2.5	134084.750	2.5
607.3009	28.00	-2.39	42656.317	1.0	59118.060	2.0
607.3143	26.00	-4.80	29371.860	3.0	45833.240	4.0
607.3358	13.01	-1.16	125719.000	2.0	142179.800	1.0
607.3368	28.01	-4.06	120271.970	2.5	136732.740	1.5
607.3383	21.00	-4.79	25014.150	2.5	41474.880	1.5
607.3542	28.00	-3.96	40361.254	3.0	56821.553	3.0
607.3590	23.01	-4.26	30641.710	3.0	47101.880	2.0
607.3605	24.00	-4.80	48251.910	3.0	64712.040	3.0
607.3710	9.00	-3.11	117164.006	2.5	133623.850	1.5
607.3811	28.01	-1.30	116468.400	1.5	132927.970	1.5
607.3852	26.01	-4.91	50212.930	2.5	66672.390	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
607.3951	24.00	-4.97	31355.210	2.0	47814.400	3.0
607.4012	22.00	-3.31	26772.965	5.0	43231.990	4.0
607.4029	24.00	-3.21	33060.740	3.0	49519.720	3.0
607.4103	24.00	-3.39	35572.940	2.0	52031.720	3.0
607.4158	24.01	-4.13	67859.910	.5	84318.540	1.5
607.4195	6.00	-3.28	71385.380	2.0	87843.910	1.0
607.4208	2.01	-1.16	421353.130	0.0	437816.182	0.0
607.4317	23.00	-4.80	17181.980	4.5	33640.180	4.5
607.4337	10.00	-.47	134459.287	1.0	150917.431	0.0
607.4509	28.01	-4.69	116732.510	2.5	133190.190	1.5
607.4509	25.00	-3.06	45013.550	2.5	61471.230	2.5
607.4741	17.00	-1.78	84132.262	2.5	100589.312	2.5
607.5092	29.01	-4.85	129759.600	1.0	146215.700	1.0
607.5151	28.01	-1.81	93390.060	2.5	109846.000	3.5
607.5187	26.00	-4.86	35611.608	3.0	52067.450	2.0
607.5195	28.01	-4.44	75917.630	3.5	92373.450	2.5
607.5314	25.01	-2.28	100682.300	4.0	117137.800	4.0
607.5380	18.01	-4.30	188766.150	2.5	205221.470	1.5
607.5580	63.00	-.17	15324.929	0.0	31784.263	0.0
607.5587	7.01	-1.52	210266.040	2.0	226720.800	2.0
607.5613	26.02	-4.01	167002.000	2.0	183456.690	3.0
607.5794	7.00	-2.12	93581.520	.5	110035.720	.5
607.5856	18.01	-3.81	186890.950	2.5	203344.980	1.5
607.5915	25.02	.76	216307.290	4.5	232761.160	5.5
607.6118	28.01	-4.61	117074.700	3.5	133528.020	3.5
607.6167	7.00	-3.32	97805.810	1.5	114259.000	1.5
607.6183	17.00	-1.96	83894.037	3.5	100347.182	2.5
607.6314	26.00	-7.78	7728.058	3.0	24180.848	3.0
607.6399	7.01	-1.84	210266.040	2.0	226718.600	1.0
607.6452	17.00	-3.27	85735.091	1.5	102187.510	2.5
607.6606	26.02	-4.29	206324.890	2.0	222776.890	1.0
607.6661	23.01	-4.67	18293.870	2.0	34745.720	3.0
607.6721	25.01	-3.78	53698.700	2.0	70150.390	1.0
607.7164	24.01	-3.20	67868.050	2.5	84318.540	1.5
607.7241	22.01	-2.87	52631.070	3.5	69081.350	4.5
607.7290	92.00	-1.53	564.603	0.0	17019.306	0.0
607.7319	24.00	-4.61	31364.330	3.0	47814.400	3.0
607.7380	63.00	-.61	15566.901	0.0	32021.360	0.0
607.7400	23.00	-4.37	0.000	1.5	16449.850	2.5
607.7418	13.01	-2.79	132819.700	3.0	149269.500	2.0
607.7418	13.01	-1.61	132819.700	3.0	149269.500	3.0
607.7418	13.01	-.18	132819.700	3.0	149269.500	4.0
607.7429	18.01	-3.37	139258.250	.5	155708.020	.5
607.7456	25.01	-1.58	100688.100	3.0	117137.800	4.0
607.7492	13.01	-1.24	132819.900	2.0	149269.500	2.0
607.7492	13.01	-.51	132819.900	1.0	149269.500	2.0
607.7492	13.01	-.71	132819.900	2.0	149269.500	3.0
607.7578	25.01	-3.52	53781.700	3.0	70231.070	2.0
607.7592	26.02	-4.79	206324.890	2.0	222774.220	2.0
607.7792	26.02	-.11	189784.520	2.0	206233.310	2.0
607.7871	22.00	-3.83	32013.534	6.0	48462.110	5.0
607.7991	26.00	-4.07	31307.235	4.0	47755.485	3.0
607.8069	24.01	-4.67	67870.500	1.5	84318.540	1.5
607.8172	25.01	-3.01	72648.800	4.0	89096.560	4.0
607.8195	23.00	-1.75	27470.880	3.5	43918.580	2.5
607.8206	9.02	-.21	442147.190	2.5	458594.860	2.5
607.8394	6.00	-2.65	71385.380	2.0	87832.540	2.0
607.8446	25.02	-4.61	175918.500	.5	192365.520	1.5
607.8469	26.00	-.63	38678.015	2.0	55124.974	3.0
607.8716	7.01	-3.71	187091.370	2.0	203537.660	1.0
607.8742	26.01	-4.14	50076.100	1.5	66522.320	2.5
607.8823	26.02	-4.31	206328.220	3.0	222774.220	2.0
607.8980	26.00	-3.08	37521.144	2.0	53966.720	2.0
607.9074	15.00	-3.74	65787.380	3.5	82232.700	2.5
607.9270	6.00	-3.58	71385.380	2.0	87830.170	1.0
607.9337	23.02	.01	145143.430	4.5	161588.040	3.5
607.9492	24.00	-1.02	40906.460	1.0	57350.650	2.0
607.9580	42.00	-1.17	23390.681	0.0	39839.186	0.0
607.9655	28.01	-4.69	116468.400	1.5	132912.150	2.5
607.9770	6.00	-3.13	72610.720	2.0	89054.160	2.0
608.0023	14.00	-3.35	47351.554	2.0	63794.310	2.0
608.0116	9.00	-.70	117164.006	2.5	133606.510	3.5
608.0117	8.01	-4.67	261697.500	1.5	278140.000	1.5
608.0139	27.00	-3.38	36329.860	2.5	52772.300	2.5
608.0476	26.02	-3.28	182379.860	5.0	198821.390	6.0
608.0616	26.02	-4.57	206324.890	2.0	222766.040	3.0
608.0650	64.01	-.97	13792.436	0.0	30238.046	0.0
608.0661	24.00	-3.29	48310.390	5.0	64751.420	4.0
608.0839	16.01	-2.10	114200.450	1.5	130641.000	1.5
608.0881	22.00	-3.62	17540.205	3.0	33980.639	2.0
608.1011	15.00	-2.98	65450.020	1.5	81890.100	2.5
608.1223	18.00	-3.77	107496.463	1.0	123935.970	1.0
608.1226	24.00	-2.98	35572.940	2.0	52012.440	2.0
608.1270	42.00	-1.18	25729.749	0.0	42173.683	0.0
608.1337	17.01	-3.48	145468.500	1.0	161907.700	2.0
608.1400	28.01	-2.40	98561.220	2.5	115000.250	3.5
608.1426	23.00	-.65	8476.200	1.5	24915.160	1.5
608.1448	30.02	-.81	218428.000	0.0	234866.900	1.0
608.1467	7.00	-3.76	97770.150	.5	114209.000	.5
608.1480	74.00	-1.66	18147.942	0.0	34591.308	0.0
608.1570	7.01	-1.12	210239.830	1.0	226678.400	2.0
608.1641	9.02	-.72	441276.720	2.5	457715.100	2.5
608.1703	26.00	-3.08	35611.608	3.0	52049.820	2.0
608.1712	16.00	-2.29	64888.014	1.0	81326.200	1.0
608.1811	23.01	-3.83	30613.970	4.0	47051.890	3.0
608.1811	25.00	-3.87	38669.600	3.5	55107.520	3.5
608.1817	26.00	-2.80	33412.706	3.0	49850.610	3.0
608.1848	26.02	-4.15	206328.220	3.0	222766.040	3.0
608.1883	17.00	-4.73	84988.480	1.5	101426.204	2.5
608.1978	14.00	-3.06	47284.061	1.0	63721.530	2.0
608.2000	28.01	-2.88	116732.510	2.5	133169.920	3.5
608.2048	26.02	-.65	189796.030	1.0	206233.310	2.0
608.2107	6.00	-3.70	71352.510	0.0	87789.630	1.0
608.2174	24.00	-4.16	33040.100	2.0	49477.040	1.0
608.2174	24.00	-3.72	33040.100	2.0	49477.040	2.0
608.2359	24.00	-2.64	31377.960	4.0	47814.400	3.0
608.2422	27.00	.16	28345.860	4.5	44782.130	4.5
608.2604	17.00	-2.27	82918.893	2.5	99354.670	1.5
608.2609	16.00	-2.77	64890.436	0.0	81326.200	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
608.2647	24.00	-3.35	31352.420	1.0	47788.080	0.0
608.2713	26.00	-3.90	17927.378	1.0	34362.860	1.0
608.2832	23.00	-4.17	137.380	2.5	16572.540	3.5
608.3029	28.01	-4.37	100389.520	2.5	116824.150	2.5
608.3052	16.00	-2.07	64891.632	2.0	81326.200	1.0
608.3328	27.00	-1.02	36329.860	2.5	52763.680	3.5
608.3336	18.02	-2.41	210212.260	3.0	226646.060	4.0
608.3365	25.00	-3.94	38934.940	2.5	55368.660	1.5
608.3380	24.00	-4.42	31352.420	1.0	47786.100	2.0
608.3410	15.00	-2.83	64239.500	.5	80673.100	.5
608.3488	26.02	-3.91	206324.890	2.0	222758.280	2.0
608.3522	12.00	-3.27	43503.333	0.0	59936.630	1.0
608.3576	23.02	.23	145902.730	4.5	162335.880	3.5
608.3642	22.00	-2.53	25438.898	2.0	41871.870	2.0
608.3676	26.00	-3.57	31322.603	3.0	47755.485	3.0
608.3839	23.01	-2.68	20522.140	1.0	36954.580	1.0
608.3840	63.00	.06	13711.778	0.0	30148.765	0.0
608.4006	28.01	-1.73	105838.060	3.5	122270.050	3.5
608.4102	26.01	-4.11	25805.320	4.5	42237.050	3.5
608.4120	62.00	-1.28	806.575	0.0	17242.606	0.0
608.4158	23.00	-.36	26122.040	3.5	42553.620	4.5
608.4165	26.01	-4.13	50157.610	4.5	66589.170	4.5
608.4191	26.02	-2.98	114325.350	5.0	130756.840	6.0
608.4217	29.01	-3.38	117928.480	1.0	134359.900	1.0
608.4228	26.02	.25	202429.040	1.0	218860.430	2.0
608.4398	21.00	-3.41	25584.640	2.5	42015.570	3.5
608.4413	24.00	-3.73	31355.210	2.0	47786.100	2.0
608.4484	25.00	-2.01	46083.890	1.5	62514.590	2.5
608.4513	28.01	-3.17	119315.440	2.5	135746.060	3.5
608.4607	22.00	-3.92	25388.334	4.0	41818.700	4.0
608.4618	14.00	-2.48	47284.061	1.0	63714.400	2.0
608.4698	24.00	-3.58	35572.940	2.0	52003.060	1.0
608.4721	26.02	-4.65	206328.220	3.0	222758.280	2.0
608.4890	57.00	-.35	16776.764	0.0	33210.915	0.0
608.4965	13.01	-.49	133914.100	2.0	150343.500	3.0
608.5139	23.00	-4.00	20687.750	1.5	37116.680	.5
608.5228	22.00	-1.29	8492.421	1.0	24921.110	1.0
608.5260	90.01	-3.01	6129.972	0.0	22563.124	0.0
608.5267	26.00	-3.02	22249.430	3.0	38678.015	2.0
608.5795	24.01	-3.94	74423.840	3.5	90851.000	4.5
608.5859	18.00	-2.02	106087.305	1.0	122514.290	1.0
608.5976	24.00	-3.48	33040.100	2.0	49466.770	2.0
608.6010	23.00	-4.30	17054.870	2.5	33481.450	3.5
608.6036	24.01	-4.61	53051.550	1.5	69478.060	2.5
608.6073	27.00	-3.04	29948.760	2.5	46375.170	1.5
608.6076	15.01	-3.71	111508.500	0.0	127934.900	1.0
608.6080	7.00	-4.54	97805.810	1.5	114232.200	1.5
608.6276	28.00	-.80	34408.574	1.0	50834.435	2.0
608.6297	22.00	-4.83	27418.015	2.0	43843.820	3.0
608.6632	23.00	-3.53	9824.580	2.5	26249.480	1.5
608.6658	27.00	-.99	27497.060	2.5	43921.890	2.5
608.6673	24.00	-2.34	33113.270	4.0	49538.060	5.0
608.6695	6.00	-3.70	71364.900	1.0	87789.630	1.0
608.6769	25.00	-3.58	45060.810	3.5	61485.340	4.5
608.6943	23.01	-3.00	20617.050	2.0	37041.110	2.0
608.6992	27.00	-2.43	32654.500	2.5	49078.430	1.5
608.7088	24.00	-3.27	48288.370	4.0	64712.040	3.0
608.7340	92.01	-2.21	6371.944	0.0	22799.480	0.0
608.7392	7.00	-2.92	97770.150	.5	114193.000	1.5
608.7447	29.01	-3.19	134359.900	1.0	150782.600	2.0
608.7485	27.01	-2.57	69059.590	3.0	85482.190	4.0
608.7510	23.00	-2.55	8476.200	1.5	24898.730	2.5
608.7698	14.00	-3.45	47351.554	2.0	63773.580	2.0
608.7792	24.00	-2.66	31364.330	3.0	47786.100	2.0
608.7805	14.00	-2.51	47351.554	2.0	63773.290	3.0
608.7830	15.01	-.35	86744.700	1.0	103166.370	1.0
608.7862	22.00	-4.87	27480.047	3.0	43901.630	4.0
608.7874	6.00	-3.92	71385.380	2.0	87806.930	3.0
608.7884	26.00	-4.18	33765.291	2.0	50186.814	2.0
608.7991	22.00	-3.47	25537.276	1.0	41958.510	2.0
608.8000	39.00	-.81	16696.107	0.0	33121.863	0.0
608.8122	28.00	-3.39	42767.900	3.0	59188.780	3.0
608.8252	29.01	-2.32	137034.970	3.0	153455.500	4.0
608.8400	26.01	-2.84	63465.190	1.5	79885.320	2.5
608.8493	24.00	-3.47	31352.420	1.0	47772.300	1.0
608.8526	25.00	-2.77	45060.810	3.5	61480.600	3.5
608.8610	9.00	-2.09	117164.006	2.5	133583.570	2.5
608.8684	22.00	-3.20	26910.705	6.0	43330.070	5.0
608.8774	7.01	-2.08	210301.680	3.0	226720.800	2.0
608.8816	24.00	-3.97	27649.710	4.0	44068.720	3.0
608.8951	28.00	-3.27	42621.048	3.0	59039.693	4.0
608.9131	28.01	-3.90	100475.820	3.5	116893.980	2.5
608.9146	23.01	-3.35	20622.990	3.0	37041.110	2.0
608.9190	92.00	-1.90	3710.246	0.0	20132.792	0.0
608.9220	25.01	-4.81	54846.000	0.0	71263.920	1.0
608.9394	26.02	-3.42	105929.160	3.0	122346.610	3.0
608.9472	23.00	-2.81	8412.940	.5	24830.180	1.5
608.9509	28.01	-2.33	116312.340	1.5	132729.480	2.5
608.9528	24.00	-2.98	31355.210	2.0	47772.300	1.0
608.9665	28.01	-1.00	120316.020	.5	136732.740	1.5
608.9676	24.01	-1.50	52321.300	4.5	68737.990	5.5
608.9735	17.00	-1.83	85442.430	1.5	101858.960	2.5
608.9821	24.00	-3.37	33060.740	3.0	49477.040	2.0
608.9928	28.01	-1.51	105668.780	2.5	122084.790	1.5
608.9951	28.01	-3.75	101246.160	.5	117662.110	1.5
608.9984	24.00	-3.66	31377.960	4.0	47793.820	5.0
609.0069	25.00	-1.88	35114.980	2.5	51530.610	3.5
609.0162	25.02	-2.81	176464.780	3.5	192880.160	3.5
609.0214	23.00	-.14	8715.720	3.5	25130.960	2.5
609.0296	18.01	-4.51	170400.940	2.5	186815.960	3.5
609.0399	28.01	-2.92	101247.370	2.5	117662.110	1.5
609.0476	22.00	-4.29	31914.277	5.0	48328.810	4.0
609.0540	23.00	-2.45	8578.520	2.5	24992.880	3.5
609.0563	27.00	-2.28	27497.060	2.5	43911.360	1.5
609.0748	25.01	-4.23	72648.800	4.0	89062.600	5.0
609.0780	18.00	-2.88	107054.319	0.0	123468.034	1.0
609.0820	73.00	-.56	25003.831	0.0	41421.982	0.0
609.0899	9.00	-1.78	117164.006	2.5	133577.400	1.5
609.0923	23.00	-4.80	20767.570	3.5	37180.900	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
609.0967	27.00	-7.05	7442.410	3.5	23855.620	4.5
609.1015	73.02	.33	146347.200	5.5	162760.280	4.5
609.1086	25.02	-.43	179339.590	2.5	195752.480	2.5
609.1101	25.02	.42	178558.300	1.5	194971.150	2.5
609.1149	26.01	-4.06	47674.780	1.5	64067.500	2.5
609.1174	22.00	-.29	18287.560	4.0	34700.212	5.0
609.1283	7.01	-1.02	210266.040	2.0	226678.400	2.0
609.1613	28.01	-3.91	105668.780	2.5	122080.250	2.5
609.1672	24.00	-3.98	36552.130	3.0	52963.440	4.0
609.1736	28.01	-3.13	121115.590	1.5	137526.730	2.5
609.1769	29.01	-4.14	137044.450	4.0	153455.500	4.0
609.1891	23.00	-3.90	17116.920	3.5	33527.640	2.5
609.1919	14.00	-2.42	47351.554	2.0	63762.200	3.0
609.2003	25.00	-3.97	45060.810	3.5	61471.230	2.5
609.2066	16.01	-.93	114230.750	2.5	130641.000	1.5
609.2092	23.01	-4.94	30641.710	3.0	47051.890	3.0
609.2129	26.02	-3.40	117950.320	4.0	134360.400	4.0
609.2177	7.01	-1.34	210266.040	2.0	226675.990	3.0
609.2348	20.00	-3.13	21849.634	2.0	38259.124	3.0
609.2348	20.00	-3.63	21849.634	2.0	38259.124	3.0
609.2415	28.01	-.89	120316.020	.5	136725.330	.5
609.2429	10.01	-1.50	302425.870	1.5	318835.140	2.5
609.2433	28.01	-1.68	122086.580	3.5	138495.840	4.5
609.2459	15.01	-2.86	88894.000	1.0	105303.190	1.0
609.2521	22.00	-3.25	25643.695	3.0	42052.720	3.0
609.2582	28.01	-2.17	105861.190	2.5	122270.050	3.5
609.2798	22.00	-.82	15220.390	5.0	31628.668	5.0
609.2820	28.01	-2.85	75917.630	3.5	92325.850	3.5
609.2830	6.00	-3.17	71364.900	1.0	87773.090	2.0
609.2883	24.01	-4.93	54444.190	3.5	70852.240	3.5
609.2938	12.02	-.10	546531.600	1.0	562939.500	2.0
609.3036	22.00	-2.95	25493.722	2.0	41901.360	1.0
609.3102	23.00	-5.71	14910.040	3.5	31317.500	4.5
609.3143	27.00	-2.47	14036.280	1.5	30443.630	1.5
609.3332	23.02	-1.63	145978.270	2.5	162385.110	3.5
609.3335	18.00	-2.99	107496.463	1.0	123903.295	2.0
609.3406	24.01	-3.82	74318.860	2.5	90725.500	3.5
609.3477	24.00	-1.93	33113.270	4.0	49519.720	3.0
609.3544	27.00	-4.55	29269.730	4.5	45676.000	5.5
609.3633	24.00	-3.77	33060.740	3.0	49466.770	2.0
609.3637	23.00	-.80	26171.960	4.5	42577.980	5.5
609.3647	26.00	-1.52	37162.729	3.0	53568.720	2.0
609.3718	17.01	-3.15	161348.400	1.0	177754.200	1.0
609.3774	28.01	-.92	117662.110	1.5	134067.760	1.5
609.3774	29.01	-2.55	137044.450	4.0	153450.100	5.0
609.3893	23.00	-4.15	323.420	3.5	16728.750	4.5
609.3916	28.00	-3.47	40361.254	3.0	56766.523	4.0
609.4112	17.00	-3.24	84648.100	2.5	101052.840	2.5
609.4209	28.01	-.20	119796.980	2.5	136201.460	3.5
609.4246	28.01	-2.73	120144.170	2.5	136546.550	2.5
609.4294	6.00	-3.75	71385.380	2.0	87789.630	1.0
609.4344	26.00	-1.92	37521.144	2.0	53925.260	1.0
609.4350	28.01	-4.72	101258.010	1.5	117662.110	1.5
609.4521	28.01	-4.19	121115.590	1.5	137519.230	2.5
609.4566	17.00	-3.16	83130.900	1.5	99534.419	.5
609.4673	26.01	-3.90	44929.590	2.5	61332.820	1.5
609.4688	7.00	-4.09	97805.810	1.5	114209.000	.5
609.4692	25.00	-1.42	46169.930	.5	62573.110	1.5
609.4722	17.01	-.10	129065.400	2.0	145468.500	1.0
609.4747	28.01	-4.02	100490.950	1.5	116893.980	2.5
609.4752	17.00	-3.35	85735.091	1.5	102138.110	.5
609.4773	28.01	-2.67	120144.170	2.5	136547.130	3.5
609.4785	22.00	-3.64	31805.940	2.0	48208.870	3.0
609.4825	25.01	-3.35	86302.550	3.0	102705.370	3.0
609.4887	22.00	-2.62	27498.975	3.0	43901.630	4.0
609.5108	26.02	-2.00	182810.660	5.0	199212.720	4.0
609.5305	25.02	-2.22	215663.500	3.5	232065.030	2.5
609.5346	28.00	-2.50	35639.148	3.0	52040.568	2.0
609.5359	9.00	-4.62	102680.435	1.5	119081.820	.5
609.5390	28.01	-3.76	120203.490	2.5	136604.790	3.5
609.5420	26.01	-3.83	50187.950	3.5	66589.170	4.5
609.5442	24.00	-3.23	27649.710	4.0	44050.870	4.0
609.5580	25.01	-2.69	86302.550	3.0	102703.340	4.0
609.5632	25.00	-2.55	35114.980	2.5	51515.630	2.5
609.5717	24.00	-4.70	31393.400	5.0	47793.820	5.0
609.5955	23.01	-2.73	20089.560	1.0	36489.340	1.0
609.5992	25.00	-4.91	34463.370	1.5	50863.050	1.5
609.6163	10.00	-.27	134459.287	1.0	150858.508	2.0
609.6260	23.00	-4.32	20828.480	2.5	37227.440	2.5
609.6576	28.01	-2.26	120144.170	2.5	136542.280	3.5
609.6647	26.00	-2.04	32133.977	2.0	48531.896	3.0
609.6702	28.01	-3.85	101366.140	2.5	117763.910	1.5
609.6733	14.00	-2.83	48264.292	3.0	64661.980	3.0
609.6882	17.00	-3.10	84648.100	2.5	101045.386	1.5
609.6989	13.01	-.62	133914.100	2.0	150311.100	3.0
609.7044	16.01	-4.67	113461.220	1.5	129858.070	1.5
609.7149	24.00	-4.39	37244.170	4.0	53640.740	3.0
609.7149	9.02	-2.37	441158.600	1.5	457555.170	1.5
609.7161	22.00	-3.31	25317.813	1.0	41714.350	2.0
609.7238	29.01	-.29	122745.770	2.0	139142.100	2.0
609.7402	26.02	-.62	189784.520	2.0	206180.410	3.0
609.7442	23.00	-2.51	8715.720	3.5	25111.500	4.5
609.7658	27.00	-4.54	16778.160	2.5	33173.360	3.5
609.7911	7.01	-3.72	210301.680	3.0	226696.200	4.0
609.8071	26.02	-3.94	182379.860	5.0	198773.950	5.0
609.8131	24.00	-3.38	35618.510	1.0	52012.440	2.0
609.8183	23.02	-.15	144772.020	3.5	161165.810	2.5
609.8319	9.00	-1.22	117164.006	2.5	133557.430	2.5
609.8340	58.01	-.56	14195.724	0.0	30593.629	0.0
609.8402	24.00	-2.33	33060.740	3.0	49453.940	4.0
609.8514	18.01	-4.74	158428.030	.5	174820.930	.5
609.8533	7.00	-2.84	97770.150	.5	114163.000	1.5
609.8555	18.01	-3.42	186074.350	2.5	202467.140	1.5
609.8663	19.02	-1.80	225051.000	2.5	241443.500	2.5
609.8670	72.00	-2.47	4516.821	0.0	20913.839	0.0
609.8694	22.00	.10	24694.895	4.0	41087.310	3.0
609.8792	18.00	-1.94	106087.305	1.0	122479.459	1.0
609.8878	28.01	-.78	103653.030	3.5	120044.950	4.5
609.8912	23.01	-5.47	18353.890	3.0	34745.720	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
609.8927	6.00	-3.06	71385.380	2.0	87777.170	3.0
609.9113	28.01	-3.00	94729.250	2.5	111120.540	1.5
609.9210	15.00	-2.15	65373.470	.5	81764.500	1.5
609.9239	24.00	-4.07	48445.350	6.0	64836.300	6.0
609.9243	28.01	-1.03	117662.110	1.5	134053.050	2.5
609.9350	63.00	-.01	13147.176	0.0	29542.366	0.0
609.9523	7.00	-4.19	97805.810	1.5	114196.000	2.5
609.9574	28.01	-5.00	76402.030	2.5	92792.080	3.5
609.9596	28.01	-4.66	120002.860	3.5	136392.850	3.5
609.9611	24.00	-.87	40971.290	2.0	57361.240	3.0
609.9648	7.00	-3.20	97770.150	.5	114160.000	1.5
609.9738	23.00	-4.71	28768.130	4.5	45157.740	4.5
609.9834	22.00	-3.67	29855.248	1.0	46244.600	2.0
609.9842	26.02	-2.88	166421.330	4.0	182810.660	5.0
609.9891	29.01	-.71	120684.550	3.0	137073.750	2.0
609.9900	62.00	-1.84	241.973	0.0	16635.684	0.0
610.0028	6.00	-2.60	71364.900	1.0	87753.730	2.0
610.0080	25.02	.55	215875.730	2.5	232264.420	3.5
610.0304	23.01	-3.12	20980.920	2.0	37369.010	2.0
610.0380	57.01	-2.65	5646.026	0.0	22038.447	0.0
610.0423	9.02	-2.95	441167.400	.5	457555.170	1.5
610.0438	25.00	-4.37	35165.050	1.5	51552.780	.5
610.0445	6.00	-4.52	71385.380	2.0	87773.090	2.0
610.0676	28.01	-3.36	120144.170	2.5	136531.260	1.5
610.0687	27.00	-4.09	28470.510	1.5	44857.570	.5
610.0687	22.00	-2.59	25797.600	3.0	42184.660	4.0
610.0769	27.00	-4.25	36329.860	2.5	52716.700	3.5
610.1022	22.01	-2.99	52458.980	1.5	68845.140	2.5
610.1093	23.00	-3.30	9544.540	.5	25930.510	1.5
610.1134	28.01	-4.29	120203.490	2.5	136589.350	3.5
610.1142	18.00	-2.05	107496.463	1.0	123882.300	1.0
610.1249	23.00	-4.31	20789.130	2.5	37174.680	3.5
610.1424	10.01	-2.61	301801.090	3.5	318186.170	4.5
610.1435	25.01	-3.48	54938.100	1.0	71323.150	2.0
610.1580	73.00	-.39	22261.476	0.0	38650.674	0.0
610.1622	24.00	-3.60	35618.510	1.0	52003.060	1.0
610.1718	22.00	-4.21	25438.898	2.0	41823.190	3.0
610.1722	23.00	-1.43	26122.040	3.5	42506.320	4.5
610.1770	92.00	-1.54	6210.629	0.0	22599.316	0.0
610.1856	27.01	-3.56	68203.200	5.0	84587.120	4.0
610.1870	42.01	-1.48	18228.600	0.0	34617.019	0.0
610.1923	18.01	-2.76	179931.770	1.5	196315.510	2.5
610.1942	26.00	-2.61	34039.495	4.0	50423.185	4.0
610.2129	14.00	-2.12	48264.292	3.0	64647.480	3.0
610.2142	26.00	-1.95	37162.729	3.0	53545.882	3.0
610.2152	26.00	-.82	38995.717	1.0	55378.842	2.0
610.2199	23.00	-3.62	26021.890	3.5	42404.890	3.5
610.2255	24.01	-3.39	50687.630	2.5	67070.480	1.5
610.2277	6.00	-4.43	71352.510	0.0	87735.300	1.0
610.2292	16.01	-1.95	114804.110	2.5	131186.860	2.5
610.2390	14.00	-2.80	48264.292	3.0	64646.780	2.0
610.2590	26.02	-3.13	66464.640	3.0	82846.590	4.0
610.2694	22.00	-3.52	31725.750	1.0	48107.420	2.0
610.2698	23.00	-.39	26171.960	4.5	42553.620	4.5
610.2720	45.00	-1.76	12663.231	0.0	29049.367	0.0
610.2723	20.00	-1.00	15157.901	0.0	31539.495	1.0
610.2766	18.01	-1.73	186815.960	3.5	203197.440	3.5
610.2821	22.00	-2.36	15108.121	3.0	31489.451	4.0
610.2903	24.00	-3.66	35618.510	1.0	51999.620	0.0
610.3118	9.00	-2.04	117164.006	2.5	133544.540	3.5
610.3168	26.00	-.94	38995.717	1.0	55376.117	1.0
610.3273	26.00	-1.47	38175.332	3.0	54555.450	4.0
610.3502	13.01	-1.49	132819.700	3.0	149199.200	3.0
610.3503	30.02	-1.14	220668.300	2.0	237047.800	2.0
610.3540	18.01	-2.09	144709.910	.5	161089.310	.5
610.3544	26.01	-2.47	50142.930	2.5	66522.320	2.5
610.3555	24.00	-1.60	40971.290	2.0	57350.650	2.0
610.3577	13.01	-.59	132819.900	2.0	149199.200	3.0
610.3600	3.00	.60	14904.000	0.0	31287.774	0.0
610.3603	10.01	-1.74	302425.870	1.5	318805.100	2.5
610.3607	10.01	-1.54	301801.090	3.5	318180.310	2.5
610.3872	28.01	-2.56	105668.780	2.5	122047.290	3.5
610.3916	10.01	-3.79	302425.870	1.5	318804.260	1.5
610.4007	22.00	-3.47	25493.722	2.0	41871.870	2.0
610.4044	14.00	-3.03	48020.074	1.0	64398.120	2.0
610.4218	24.00	-1.06	38597.060	1.0	54974.640	2.0
610.4358	18.00	-3.69	107131.755	1.0	123508.960	0.0
610.4360	23.00	-3.56	20606.430	.5	36983.630	1.5
610.4427	23.00	-3.96	34374.810	3.5	50751.630	3.5
610.4539	7.01	-1.98	210301.680	3.0	226678.400	2.0
610.4581	18.00	-2.31	107496.463	1.0	123873.070	0.0
610.4651	23.00	-3.15	8412.940	.5	24789.360	.5
610.4725	21.00	-1.75	25584.640	2.5	41960.860	2.5
610.4736	7.00	-2.39	97805.810	1.5	114182.000	2.5
610.5081	22.00	-7.08	11531.760	2.0	27907.026	2.0
610.5135	26.00	-3.13	36686.159	4.0	53061.280	5.0
610.5270	28.01	-4.17	113407.310	2.5	129782.070	3.5
610.5396	27.00	-3.31	20500.710	1.5	36875.130	1.5
610.5438	7.01	-.75	210301.680	3.0	226675.990	3.0
610.5486	7.01	-.75	210266.040	2.0	226640.220	3.0
610.5520	27.00	-2.85	16467.900	4.5	32841.990	4.5
610.5594	16.01	-3.37	140229.780	2.5	156603.670	3.5
610.5635	18.00	-3.06	107131.755	1.0	123505.536	2.0
610.5647	17.00	-2.50	85735.091	1.5	102108.840	1.5
610.5654	29.01	-.71	122745.770	2.0	139119.500	3.0
610.5680	22.01	-2.47	52471.480	2.5	68845.140	2.5
610.5759	28.00	-1.87	34163.294	2.0	50536.742	1.0
610.5945	22.00	-3.75	31685.900	0.0	48058.850	1.0
610.5963	27.00	-3.09	36329.860	2.5	52702.760	1.5
610.6150	28.01	-3.36	121190.340	4.5	137562.740	3.5
610.6288	26.02	-4.25	167085.120	3.0	183457.150	4.0
610.6416	14.00	-2.29	45276.188	1.0	61647.875	2.0
610.6496	28.00	-3.52	42621.048	3.0	58992.520	2.0
610.6608	14.00	-1.73	45276.188	1.0	61647.360	1.0
610.6653	28.01	-2.26	117074.700	3.5	133445.750	4.5
610.6818	17.00	-3.16	84132.262	2.5	100502.871	1.5
610.6896	6.00	-4.49	71364.900	1.0	87735.300	1.0
610.6959	23.00	-2.17	11100.650	4.5	27470.880	3.5
610.7070	26.00	-2.86	34328.733	3.0	50698.666	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
610.7237	20.00	-4.22	21849.634	2.0	38219.118	2.0
610.7270	57.00	-2.05	2984.328	0.0	19358.256	0.0
610.7321	29.01	-.34	122223.840	0.0	138593.100	1.0
610.7325	26.00	-1.71	32873.623	4.0	49242.872	3.0
610.7660	6.00	-1.97	71385.380	2.0	87753.730	2.0
610.7710	41.00	-1.23	15324.929	0.0	31697.678	0.0
610.7717	23.00	-4.45	14949.300	4.5	31317.500	4.5
610.7911	24.00	-4.11	40982.970	2.0	57350.650	2.0
610.7918	27.00	-.52	36092.440	2.5	52460.100	2.5
610.8064	25.02	-.27	176209.150	1.5	192576.420	2.5
610.8067	23.00	-2.44	9636.960	1.5	26004.220	2.5
610.8107	28.00	-2.19	13521.352	2.0	29888.505	2.0
610.8150	63.00	.14	19277.147	0.0	35648.716	0.0
610.8295	22.00	-3.33	27887.740	3.0	44254.390	3.0
610.8325	18.01	-.56	192556.840	2.5	208923.410	2.5
610.8410	60.01	-1.97	9598.245	0.0	25969.117	0.0
610.8480	57.00	-.78	7581.807	0.0	23952.492	0.0
610.8519	6.00	-2.58	71352.510	0.0	87718.560	1.0
610.8740	58.01	-.88	13469.806	0.0	29839.794	0.0
610.9086	23.00	-4.41	17116.920	3.5	33481.450	3.5
610.9150	18.01	-1.68	192556.840	2.5	208921.200	1.5
610.9236	23.00	-4.30	553.020	4.5	16917.150	5.5
610.9253	22.00	-3.81	25537.276	1.0	41901.360	1.0
610.9508	25.02	-.61	179228.690	1.5	195592.090	1.5
610.9893	24.00	-3.58	35640.690	0.0	52003.060	1.0
611.0218	19.02	-.63	225082.000	1.5	241443.500	2.5
611.0236	23.00	-4.25	0.000	1.5	16361.450	1.5
611.0292	26.02	-3.30	182412.650	4.0	198773.950	5.0
611.0400	17.00	-2.10	85442.430	1.5	101803.442	2.5
611.0539	18.01	-4.82	170530.310	3.5	186890.950	2.5
611.0660	62.01	-1.32	11695.340	0.0	28060.184	0.0
611.0670	21.00	-4.20	25724.720	3.5	42085.010	4.5
611.0670	77.00	-1.82	15970.189	0.0	32335.007	0.0
611.0704	10.01	-1.93	301801.090	3.5	318161.290	2.5
611.0759	24.00	-2.24	27728.870	2.0	44088.920	1.0
611.0780	56.00	.44	9596.000	0.0	25960.523	0.0
611.0815	29.01	-1.01	120684.550	3.0	137044.450	4.0
611.0815	10.01	-1.93	301801.090	3.5	318160.990	3.5
611.0833	7.00	-2.60	97770.150	.5	114130.000	.5
611.1002	23.00	-2.05	26004.220	2.5	42363.620	3.5
611.1066	28.00	-1.18	32973.414	4.0	49332.643	4.0
611.1484	23.00	-4.73	14910.040	3.5	31268.150	3.5
611.1546	26.00	-3.82	35856.386	2.0	52214.330	1.0
611.1645	23.00	-.78	8412.940	.5	24770.620	.5
611.1671	23.02	-2.37	145978.270	2.5	162335.880	3.5
611.1680	74.00	-2.23	15324.929	0.0	31687.042	0.0
611.1720	57.00	-.96	7985.094	0.0	24347.100	0.0
611.1779	28.01	-3.48	102742.740	1.5	119100.060	1.5
611.1827	7.00	-2.14	97805.810	1.5	114163.000	1.5
611.1828	26.02	-4.70	182379.860	5.0	198737.050	4.0
611.1956	22.00	-2.31	27614.667	4.0	43971.513	5.0
611.1992	17.00	-3.05	84688.637	.5	101045.386	1.5
611.2000	24.00	-3.52	48445.350	6.0	64802.080	5.0
611.2239	24.01	-3.10	38269.670	3.5	54625.760	2.5
611.2250	10.01	-.50	301801.090	3.5	318157.150	3.5
611.2280	22.00	-4.61	11531.760	2.0	27887.740	3.0
611.2422	17.00	-3.10	83894.037	3.5	100249.636	2.5
611.2463	18.01	-4.97	186074.350	2.5	202429.840	3.5
611.2541	28.01	-4.14	121180.550	5.5	137535.830	5.5
611.2551	22.00	-3.90	21469.494	3.0	37824.748	4.0
611.2553	26.02	-4.15	182418.700	4.0	198773.950	5.0
611.2579	25.00	-4.57	45130.160	4.5	61485.340	4.5
611.2598	28.01	-4.76	122140.710	4.5	138495.840	4.5
611.2657	10.01	.02	301801.090	3.5	318156.060	4.5
611.2698	24.00	-4.37	25038.610	5.0	41393.470	5.0
611.2788	28.01	-4.57	120250.170	3.5	136604.790	3.5
611.2830	90.01	-3.00	1774.465	0.0	18133.500	0.0
611.2928	14.00	-1.75	45293.629	2.0	61647.875	2.0
611.2949	7.00	-3.04	97805.810	1.5	114160.000	2.5
611.3027	23.00	-3.41	8476.200	1.5	24830.180	1.5
611.3121	25.00	-1.27	45940.930	2.5	62294.660	3.5
611.3121	14.00	-2.18	45293.629	2.0	61647.360	1.0
611.3147	6.00	-2.61	71364.900	1.0	87718.560	1.0
611.3193	26.00	-3.61	32873.623	4.0	49227.160	3.0
611.3315	26.01	-4.47	25981.650	3.5	42334.860	2.5
611.3467	18.00	-2.65	106087.305	1.0	122440.109	2.0
611.3600	14.00	-4.22	48264.292	3.0	64616.740	2.0
611.3697	26.00	-8.55	8154.713	1.0	24506.902	2.0
611.3727	17.00	-4.32	85244.330	.5	101596.440	.5
611.3756	24.00	-1.67	27728.870	2.0	44080.900	2.0
611.3899	9.01	-4.64	236960.830	1.0	253312.480	1.0
611.4070	64.00	-.78	1693.808	0.0	18049.525	0.0
611.4171	27.00	-2.96	27497.060	2.5	43847.980	3.5
611.4220	75.00	-1.86	17099.394	0.0	33454.710	0.0
611.4226	17.00	-2.25	84688.637	.5	101039.413	.5
611.4280	28.01	-4.75	121180.550	5.5	137531.180	4.5
611.4299	25.00	-1.96	35165.050	1.5	51515.630	2.5
611.4306	9.00	-3.78	117308.558	1.5	133659.120	.5
611.4351	25.00	-3.48	45130.160	4.5	61480.600	3.5
611.4358	29.01	.12	120684.550	3.0	137034.970	3.0
611.4394	26.00	-4.09	31686.342	2.0	48036.667	2.0
611.4431	17.00	-3.30	82918.893	2.5	99269.121	2.5
611.4456	28.00	-4.03	42767.900	3.0	59118.060	2.0
611.4545	6.00	-3.99	71385.380	2.0	87735.300	1.0
611.4579	26.02	-4.46	206261.330	4.0	222611.160	5.0
611.4579	28.01	-.87	103653.030	3.5	120002.860	3.5
611.4580	62.01	-1.81	10888.765	0.0	27243.118	0.0
611.4597	7.01	-3.03	186511.580	2.0	202861.360	3.0
611.4652	28.00	-3.24	40361.254	3.0	56710.889	2.0
611.4658	25.02	.30	215715.410	1.5	232065.030	2.5
611.4837	24.00	-3.13	38537.680	5.0	54886.820	6.0
611.4860	21.00	-3.22	14926.240	2.5	31275.320	3.5
611.4934	18.01	-.14	154181.430	4.5	170530.310	3.5
611.4957	28.01	-3.99	121180.550	5.5	137529.370	6.5
611.5088	25.01	-4.45	62564.700	1.0	78913.170	2.0
611.5092	9.00	-2.52	117622.923	2.5	133971.380	1.5
611.5125	24.01	-4.27	67859.910	.5	84208.280	.5
611.5136	17.00	-2.78	85244.330	.5	101592.670	.5
611.5140	28.01	-3.08	100475.820	3.5	116824.150	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
611.5159	24.00	-4.70	46298.320	1.0	62646.600	2.0
611.5267	24.00	-4.95	32097.360	6.0	48445.350	6.0
611.5301	28.01	-4.20	120044.950	4.5	136392.850	3.5
611.5451	25.00	-4.67	27248.000	1.5	43595.500	2.5
611.5550	74.00	-2.29	14840.984	0.0	31192.743	0.0
611.5675	25.02	-1.89	215917.520	4.5	232264.420	3.5
611.5699	26.00	-4.56	35257.309	4.0	51604.146	3.0
611.5825	10.01	-1.42	301855.710	2.5	318202.210	1.5
611.5828	24.01	-2.48	74504.510	4.5	90851.000	4.5
611.5836	6.00	-2.47	71364.900	1.0	87711.370	0.0
611.5869	17.00	-1.85	83364.927	.5	99711.309	.5
611.5941	23.00	-4.15	34529.810	4.5	50876.000	4.5
611.6038	26.01	-5.00	26055.400	2.5	42401.330	1.5
611.6098	10.01	-1.55	322348.010	3.5	338693.780	4.5
611.6098	10.01	-.58	322348.010	4.5	338693.780	4.5
611.6135	10.01	-4.29	322348.010	3.5	338693.680	3.5
611.6135	10.01	-.14	322348.010	4.5	338693.680	3.5
611.6150	45.00	-2.44	13389.148	0.0	29739.303	0.0
611.6154	28.01	-3.81	121190.340	4.5	137535.960	3.5
611.6174	28.00	-.83	32982.280	1.0	49327.645	2.0
611.6175	28.00	-.82	34408.574	1.0	50754.137	2.0
611.6203	28.01	-3.73	121190.340	4.5	137535.830	5.5
611.6311	17.01	-2.50	161348.400	1.0	177693.600	0.0
611.6397	25.00	-4.08	38934.940	2.5	55279.910	1.5
611.6405	24.01	-3.25	50667.330	3.5	67012.280	2.5
611.6444	22.00	-3.42	27498.975	3.0	43843.820	3.0
611.6500	22.00	-3.72	25643.695	3.0	41988.390	3.0
611.6577	26.02	-4.83	206261.330	4.0	222605.820	4.0
611.6608	14.00	-4.65	48020.074	1.0	64364.480	2.0
611.6770	44.00	-2.39	9033.642	0.0	25382.140	0.0
611.6947	30.02	-.38	218040.500	3.0	234384.000	3.0
611.6996	27.00	-2.59	14399.280	.5	30742.650	.5
611.7019	6.00	-3.06	71364.900	1.0	87708.210	2.0
611.7149	28.01	-1.19	115081.360	4.5	131424.320	5.5
611.7225	20.00	-4.38	21849.634	2.0	38192.392	1.0
611.7225	20.00	-4.63	21849.634	2.0	38192.392	1.0
611.7226	9.00	-1.54	117622.923	2.5	133965.680	2.5
611.7460	26.02	-.28	184951.620	3.0	201293.750	2.0
611.7550	17.00	-2.41	84648.100	2.5	100989.990	3.5
611.7610	23.00	-4.14	26021.890	3.5	42363.620	3.5
611.7670	7.01	-.25	210301.680	3.0	226643.250	4.0
611.7894	25.01	-4.33	62572.200	2.0	78913.170	2.0
611.7943	28.01	-3.97	121190.340	4.5	137531.180	4.5
611.8016	10.00	-1.56	150315.861	2.0	166656.508	1.0
611.8273	2.01	-1.09	421353.130	0.0	437697.612	0.0
611.8314	24.00	-1.49	27728.870	2.0	44068.720	3.0
611.8565	28.01	-3.59	120250.170	3.5	136589.350	3.5
611.8613	25.00	-1.67	45130.160	4.5	61469.210	5.5
611.8708	28.00	-2.93	42653.723	2.0	58992.520	2.0
611.8733	18.01	-3.28	144709.910	.5	161048.640	1.5
611.8780	63.00	.03	15970.189	0.0	32313.316	0.0
611.8804	7.01	-1.65	210301.680	3.0	226640.220	3.0
611.9089	24.01	-3.61	67870.500	1.5	84208.280	.5
611.9104	26.02	-3.38	182379.860	5.0	198717.600	4.0
611.9183	23.01	-3.99	20617.050	2.0	36954.580	1.0
611.9246	28.01	-2.51	105838.060	3.5	122175.420	2.5
611.9259	22.00	-2.30	29907.273	2.0	46244.600	2.0
611.9269	21.00	-3.22	25584.640	2.5	41921.940	1.5
611.9280	28.00	-4.71	40484.282	2.0	56821.553	3.0
611.9291	24.01	-4.97	53566.220	3.5	69903.460	3.5
611.9396	26.00	-4.08	29798.960	4.0	46135.920	5.0
611.9467	28.01	-4.97	116833.150	4.5	133169.920	3.5
611.9516	23.00	-.43	8578.520	2.5	24915.160	1.5
611.9576	25.02	-1.75	178558.300	1.5	194894.780	1.5
611.9651	18.00	-3.43	107131.755	1.0	123468.034	1.0
611.9680	28.00	-3.70	42656.317	1.0	58992.520	2.0
611.9749	28.00	-4.86	34408.574	1.0	50744.593	1.0
611.9763	28.01	-4.14	120268.810	3.5	136604.790	3.5
611.9828	26.00	-4.49	34362.860	1.0	50698.666	2.0
612.0040	18.01	-3.81	186815.960	3.5	203151.200	2.5
612.0089	18.01	-2.49	143371.350	1.5	159706.460	.5
612.0112	20.02	-.85	327922.870	2.0	344257.920	1.0
612.0153	28.01	-4.16	121227.800	2.5	137562.740	3.5
612.0243	18.01	-2.98	190942.650	.5	207277.350	1.5
612.0250	26.00	-7.45	7376.762	4.0	23711.443	4.0
612.0254	26.00	-3.80	36940.600	2.0	53275.270	2.0
612.0282	22.00	-2.61	25537.276	1.0	41871.870	2.0
612.0366	26.01	-3.39	50187.950	3.5	66522.320	2.5
612.0370	23.00	-.85	26171.960	4.5	42506.320	4.5
612.0399	22.00	-2.92	25537.276	1.0	41871.560	0.0
612.0805	28.01	-3.77	100490.950	1.5	116824.150	2.5
612.0812	6.00	-2.42	71385.380	2.0	87718.560	1.0
612.0816	28.01	-4.91	121190.340	4.5	137523.510	3.5
612.0830	40.00	-2.18	4113.534	0.0	20451.188	0.0
612.0842	22.00	-3.89	31725.750	1.0	48058.850	1.0
612.0895	26.00	-3.00	34547.192	2.0	50880.152	1.0
612.0947	28.01	-4.76	120271.970	2.5	136604.790	3.5
612.0992	23.01	-3.62	20156.640	0.0	36489.340	1.0
612.1006	22.00	-.95	15156.787	4.0	31489.451	4.0
612.1052	24.01	-3.94	35610.500	4.5	51943.040	4.5
612.1128	22.00	-1.24	29912.262	3.0	46244.600	2.0
612.1157	28.01	-4.89	120272.530	4.5	136604.790	3.5
612.1335	14.00	-3.49	48020.074	1.0	64351.860	1.0
612.1693	15.01	-2.73	88894.000	1.0	105224.830	0.0
612.1753	25.00	-3.80	35114.980	2.5	51445.650	1.5
612.1779	24.00	-2.31	33040.100	2.0	49370.700	3.0
612.1795	10.01	-.28	322348.010	3.5	338678.570	3.5
612.1795	10.01	.27	322348.010	4.5	338678.570	3.5
612.1813	23.01	-3.04	20343.000	2.0	36673.510	2.0
612.1835	27.00	-1.75	31871.150	3.5	48201.600	3.5
612.1910	40.00	-1.16	7985.094	0.0	24319.865	0.0
612.2049	23.00	-3.64	20828.480	2.5	37158.360	1.5
612.2154	24.00	-1.62	33934.880	3.0	50264.480	3.0
612.2217	20.00	-.52	15210.063	1.0	31539.495	1.0
612.2218	24.00	-3.34	41043.350	3.0	57372.780	4.0
612.2244	25.02	.69	216149.320	3.5	232478.680	4.5
612.2296	9.02	-1.41	441385.880	1.5	457715.100	2.5
612.2398	25.01	.91	82136.200	4.0	98465.150	5.0
612.2409	18.01	-4.43	187589.230	2.5	203918.150	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
612.2443	24.00	-2.41	33935.650	2.0	50264.480	3.0
612.2510	10.01	-1.49	302475.610	.5	318804.260	1.5
612.2634	27.00	-.17	28777.270	3.5	45105.590	3.5
612.2645	28.01	-4.04	120270.440	5.5	136598.730	5.5
612.2754	6.00	-3.59	71385.380	2.0	87713.380	3.0
612.2769	25.01	.04	82136.200	4.0	98464.160	4.0
612.3144	25.01	-1.14	82136.200	4.0	98463.160	3.0
612.3242	25.00	-3.50	51638.170	2.5	67964.870	2.5
612.3279	30.02	-.46	218540.300	2.0	234866.900	1.0
612.3320	16.01	-4.18	113461.220	1.5	129787.710	.5
612.3377	18.01	-1.63	154203.970	3.5	170530.310	3.5
612.3429	28.01	-4.99	120272.530	4.5	136598.730	5.5
612.3494	14.00	-2.34	45321.848	3.0	61647.875	2.0
612.3600	62.01	-1.82	10162.848	0.0	26493.111	0.0
612.3654	28.01	-2.58	120270.440	5.5	136596.040	6.5
612.3654	28.01	-4.42	120270.440	5.5	136596.040	5.5
612.4029	10.01	-.75	301855.710	2.5	318180.310	2.5
612.4042	26.00	-4.16	34555.586	0.0	50880.152	1.0
612.4078	26.00	-3.75	40534.180	3.0	56858.650	2.0
612.4183	29.01	-3.31	128558.900	3.0	144883.090	2.0
612.4183	7.00	-2.90	97805.810	1.5	114130.000	.5
612.4187	24.00	-3.64	31364.330	3.0	47688.510	4.0
612.4194	10.01	-1.68	301855.710	2.5	318179.870	1.5
612.4412	27.01	-4.03	68843.800	4.0	85167.380	3.0
612.4438	28.01	-2.66	120272.530	4.5	136596.040	5.5
612.4543	23.01	-4.63	18269.490	1.0	34592.720	2.0
612.4577	18.01	-3.86	174409.830	1.5	190732.970	.5
612.4670	63.00	-.32	15566.901	0.0	31894.311	0.0
612.4694	6.00	-3.96	71385.380	2.0	87708.210	2.0
612.4716	22.00	-2.19	25635.740	1.0	41958.510	2.0
612.4802	25.00	-4.43	27201.540	2.5	43524.080	3.5
612.4840	40.00	-1.94	4113.534	0.0	20440.491	0.0
612.4880	62.01	-1.65	12905.203	0.0	29232.053	0.0
612.4889	28.01	-2.69	51557.850	3.5	67880.160	2.5
612.5021	14.00	-.93	45276.188	1.0	61598.145	2.0
612.5065	28.01	-4.20	121240.900	3.5	137562.740	3.5
612.5444	26.00	-4.22	34782.406	5.0	51103.237	5.0
612.5553	28.01	-4.12	120268.810	3.5	136589.350	3.5
612.5553	28.01	-4.14	99418.610	3.5	115739.150	4.5
612.5677	23.00	-3.78	8578.520	2.5	24898.730	2.5
612.5823	25.01	.74	82144.340	3.0	98464.160	4.0
612.5921	25.02	-3.72	121117.140	3.5	137436.700	4.5
612.6011	22.01	-2.28	52631.070	3.5	68950.390	3.5
612.6037	23.00	-5.37	13801.530	1.5	30120.780	2.5
612.6090	57.01	-1.82	10001.532	0.0	26325.158	0.0
612.6102	28.00	-3.01	27943.543	1.0	44262.619	2.0
612.6105	18.00	-2.21	107496.463	1.0	123815.530	1.0
612.6153	23.00	-4.99	14910.040	3.5	31228.980	2.5
612.6187	23.00	-4.09	14949.300	4.5	31268.150	3.5
612.6198	25.01	.19	82144.340	3.0	98463.160	3.0
612.6217	22.00	-1.16	8602.340	2.0	24921.110	1.0
612.6292	22.00	-3.53	25438.898	2.0	41757.470	3.0
612.6506	25.01	-.84	82144.340	3.0	98462.340	2.0
612.6548	24.00	-3.33	41043.350	3.0	57361.240	3.0
612.6570	23.00	-6.10	14514.750	1.5	30832.580	2.5
612.6649	24.01	-4.50	74273.480	1.5	90591.100	2.5
612.6649	28.01	-4.61	120281.110	4.5	136598.730	5.5
612.6671	28.01	-1.42	93528.440	3.5	109846.000	3.5
612.6739	28.01	-4.89	120271.970	2.5	136589.350	3.5
612.6897	17.00	-2.68	83364.927	.5	99681.887	1.5
612.6949	28.01	-4.83	120272.530	4.5	136589.350	3.5
612.7009	23.00	-3.85	15000.840	5.5	31317.500	4.5
612.7050	57.00	-1.16	8388.382	0.0	24709.450	0.0
612.7283	9.02	-1.12	442278.930	2.5	458594.860	2.5
612.7352	26.00	-2.61	38175.332	3.0	54491.080	3.0
612.7370	12.02	-.07	545820.400	2.0	562136.100	2.0
612.7410	18.00	-2.92	105617.315	2.0	121932.908	1.0
612.7440	40.00	-1.40	1209.863	0.0	17529.892	0.0
612.7523	9.00	-2.33	117308.558	1.5	133623.850	1.5
612.7659	28.01	-4.48	120281.110	4.5	136596.040	5.5
612.7702	22.00	-4.49	25643.695	3.0	41958.510	2.0
612.7770	92.00	-1.37	8065.752	0.0	24384.902	0.0
612.7828	15.00	-2.25	65450.020	1.5	81764.500	1.5
612.7912	26.00	-2.61	33412.706	3.0	49726.964	4.0
612.7915	25.01	-2.79	55696.500	4.0	72010.750	4.0
612.7922	28.01	-1.90	105861.190	2.5	122175.420	2.5
612.8060	45.00	-2.14	14679.669	0.0	30998.047	0.0
612.8125	24.01	-4.65	35356.060	1.5	51669.750	2.5
612.8200	29.01	-4.20	128569.600	2.0	144883.090	2.0
612.8230	27.00	-1.13	29563.170	1.5	45876.580	2.5
612.8270	74.00	-.44	28068.817	0.0	44386.636	0.0
612.8283	23.00	-2.03	21646.390	3.5	37959.660	2.5
612.8324	23.00	-3.57	8476.200	1.5	24789.360	.5
612.8347	13.01	-3.91	125866.700	1.0	142179.800	1.0
612.8450	10.00	-1.07	134459.287	1.0	150772.112	1.0
612.8583	23.00	-4.43	137.380	2.5	16449.850	2.5
612.8587	24.00	-2.48	46349.500	2.0	62661.960	3.0
612.8709	18.00	-4.59	107496.463	1.0	123808.600	2.0
612.8726	25.01	.55	82151.070	2.0	98463.160	3.0
612.8963	28.00	-4.42	13521.352	2.0	29832.810	3.0
612.9034	25.01	.17	82151.070	2.0	98462.340	2.0
612.9094	27.00	-3.89	16470.600	1.5	32781.710	2.5
612.9226	24.01	-2.64	38315.000	2.5	54625.760	2.5
612.9252	25.01	-.84	82151.070	2.0	98461.760	1.0
612.9271	25.02	-4.32	176265.780	1.5	192576.420	2.5
612.9305	24.00	-4.12	31377.960	4.0	47688.510	4.0
612.9526	24.00	-4.00	33060.740	3.0	49370.700	3.0
612.9560	57.01	-2.29	6129.972	0.0	22444.357	0.0
612.9580	26.00	-1.70	37521.144	2.0	53830.960	3.0
612.9711	26.01	-5.00	25805.320	4.5	42114.790	4.5
612.9714	22.00	-1.91	25797.600	3.0	42107.060	4.0
612.9720	92.00	-2.04	564.603	0.0	16878.562	0.0
612.9741	26.01	-4.40	50212.930	2.5	66522.320	2.5
612.9929	9.00	-2.52	117622.923	2.5	133931.810	2.5
612.9951	21.00	-2.50	15041.980	3.5	31350.810	4.5
613.0004	26.02	-4.37	182408.910	3.0	198717.600	4.0
613.0007	22.01	-2.56	52458.980	1.5	68767.660	1.5
613.0022	9.02	-1.91	441406.460	3.5	457715.100	2.5
613.0130	28.00	-1.27	34408.574	1.0	50716.927	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
613.0173	28.01	-3.72	120281.110	4.5	136589.350	3.5
613.0203	28.01	-2.48	121227.800	2.5	137535.960	3.5
613.0350	26.00	-4.38	26224.961	3.0	42532.729	3.0
613.0391	24.00	-3.44	36577.730	4.0	52885.390	5.0
613.0474	27.00	-4.95	13795.520	2.5	30102.960	2.5
613.0526	24.00	-3.70	41043.350	3.0	57350.650	2.0
613.0665	28.01	-2.16	105838.060	3.5	122144.990	2.5
613.0782	25.01	.31	82155.720	1.0	98462.340	2.0
613.0831	18.01	-4.33	186890.950	2.5	203197.440	3.5
613.0951	25.02	-3.32	176270.250	2.5	192576.420	2.5
613.1000	25.01	.01	82155.720	1.0	98461.760	1.0
613.1022	26.01	-3.48	50157.610	4.5	66463.590	5.5
613.1173	10.01	-.78	301855.710	2.5	318161.290	2.5
613.1226	23.00	-2.40	17054.870	2.5	33360.310	3.5
613.1229	26.01	-7.81	26352.800	4.5	42658.230	3.5
613.1286	10.01	-.83	301855.710	2.5	318160.990	3.5
613.1353	15.00	-3.05	65585.000	2.5	81890.100	2.5
613.1410	26.02	-2.52	182412.650	4.0	198717.600	4.0
613.1447	9.00	-2.22	117308.558	1.5	133613.410	.5
613.1573	14.00	-1.20	45293.629	2.0	61598.145	2.0
613.1768	14.00	-3.65	40991.884	1.0	57295.881	0.0
613.1823	28.01	-1.65	117763.910	1.5	134067.760	1.5
613.1852	14.00	-1.14	45293.629	2.0	61597.404	3.0
613.1917	25.01	.01	82158.160	0.0	98461.760	1.0
613.2275	28.01	-2.34	105838.060	3.5	122140.710	4.5
613.2275	24.00	-2.16	46368.350	3.0	62671.000	4.0
613.2288	14.00	-3.77	48020.074	1.0	64322.690	0.0
613.2380	27.00	-1.35	30443.630	1.5	46746.000	2.5
613.2452	23.01	-4.89	20617.050	2.0	36919.230	3.0
613.2576	25.01	-3.62	53017.160	1.0	69319.010	0.0
613.2647	24.01	-2.52	74423.840	3.5	90725.500	3.5
613.2715	22.00	-4.04	31805.940	2.0	48107.420	2.0
613.2726	23.00	-3.33	20687.750	1.5	36989.200	2.5
613.2730	10.01	-.31	301855.710	2.5	318157.150	3.5
613.2779	24.00	-4.60	31987.060	4.0	48288.370	4.0
613.2817	22.00	-2.26	27750.124	5.0	44051.333	6.0
613.2895	7.00	-3.48	97770.150	.5	114071.153	1.5
613.2896	28.01	-2.91	100592.980	3.5	116893.980	2.5
613.2911	23.00	-4.12	19078.150	3.5	35379.110	3.5
613.3065	9.02	-.67	442294.310	1.5	458594.860	2.5
613.3211	14.00	-4.55	47284.061	1.0	63584.220	1.0
613.3216	9.00	-.79	117622.923	2.5	133923.070	3.5
613.3373	10.01	-4.20	291801.880	1.5	308101.610	1.5
613.3411	26.00	-3.63	36975.640	3.0	53275.270	2.0
613.3471	23.00	-4.11	17181.980	4.5	33481.450	3.5
613.3501	10.01	-4.08	291801.880	1.5	308101.270	2.5
613.3610	30.02	-1.32	221343.600	2.0	237642.700	3.0
613.3674	28.01	-2.40	121227.800	2.5	137526.730	2.5
613.3686	26.02	-2.96	182418.700	4.0	198717.600	4.0
613.3705	23.01	-5.38	18293.870	2.0	34592.720	2.0
613.3963	28.00	-1.83	32973.414	4.0	49271.578	3.0
613.4002	26.02	-4.63	135239.740	4.0	151537.800	4.0
613.4145	24.00	-3.47	38911.330	3.0	55209.010	4.0
613.4194	23.00	-4.79	15664.750	1.5	31962.300	.5
613.4228	23.00	-2.00	9824.580	2.5	26122.040	3.5
613.4363	24.00	-3.20	46349.500	2.0	62646.600	2.0
613.4390	57.00	-1.01	7178.519	0.0	23480.058	0.0
613.4506	27.00	-3.56	32781.710	2.5	49078.430	1.5
613.4550	40.00	-1.88	0.000	0.0	16301.114	0.0
613.4564	9.00	-2.90	117622.923	2.5	133919.490	1.5
613.4653	22.00	-2.26	25605.030	0.0	41901.360	1.0
613.4687	23.01	-2.69	20622.990	3.0	36919.230	3.0
613.4710	22.01	-3.11	52471.480	2.5	68767.660	1.5
613.4789	28.01	-2.87	101366.140	2.5	117662.110	1.5
613.4822	23.00	-3.92	20687.750	1.5	36983.630	1.5
613.4834	25.02	.56	178816.960	2.5	195112.810	3.5
613.4849	20.02	-.89	327962.110	1.0	344257.920	1.0
613.4854	14.00	-3.34	48102.323	2.0	64398.120	2.0
613.4886	28.01	-4.04	121227.800	2.5	137523.510	3.5
613.5011	14.00	-4.48	47284.061	1.0	63579.440	0.0
613.5033	14.00	-3.24	45321.848	3.0	61617.170	4.0
613.5040	39.00	-.42	17018.737	0.0	33318.549	0.0
613.5052	23.00	-2.27	10892.500	3.5	27187.770	2.5
613.5131	28.01	-3.65	121240.900	3.5	137535.960	3.5
613.5336	22.00	-4.65	26564.385	3.0	42858.900	3.0
613.5372	23.00	-.81	8476.200	1.5	24770.620	.5
613.5383	26.02	-4.19	135239.740	4.0	151534.130	3.0
613.5534	25.02	-3.52	176695.060	4.5	192989.050	5.5
613.5677	24.00	-2.65	46368.350	3.0	62661.960	3.0
613.5700	23.00	-3.47	9636.960	1.5	25930.510	1.5
613.5734	24.00	-.16	38911.330	3.0	55204.790	3.0
613.5771	56.01	-1.02	49390.050	0.0	65687.920	0.0
613.5903	24.00	-2.61	39158.630	4.0	55451.640	3.0
613.5911	23.00	-5.43	13801.530	1.5	30094.520	1.5
613.6005	28.01	-1.46	117662.110	1.5	133954.850	.5
613.6325	23.01	-9.10	19191.500	6.0	35483.390	6.0
613.6498	28.01	-4.58	121227.800	2.5	137519.230	2.5
613.6621	26.00	-1.42	19788.248	4.0	36079.353	3.0
613.6630	22.00	-3.55	17369.590	1.0	33660.671	1.0
613.6675	28.01	-4.61	118379.110	2.5	134670.070	1.5
613.6676	18.02	-2.20	210212.260	3.0	226503.220	3.0
613.6717	21.00	-1.76	25724.720	3.5	42015.570	3.5
613.6735	25.02	.12	178558.300	1.5	194849.100	1.5
613.6886	26.02	-.70	185003.350	2.0	201293.750	2.0
613.6893	7.01	-1.29	186570.980	3.0	202861.360	3.0
613.6931	28.01	-3.08	121240.900	3.5	137531.180	4.5
613.7000	26.00	-3.17	17726.985	2.0	34017.084	1.0
613.7199	23.00	-3.64	21032.520	3.5	37322.090	3.5
613.7218	21.00	-5.37	14926.240	2.5	31215.760	2.5
613.7286	26.00	-2.06	36940.600	2.0	53229.940	1.0
613.7361	28.01	-.48	117763.910	1.5	134053.050	2.5
613.7383	20.02	-2.83	346732.190	1.0	363021.270	2.0
613.7455	26.00	-3.51	34692.130	1.0	50981.020	0.0
613.7489	28.01	-4.02	119665.290	2.5	135954.090	3.5
613.7509	26.00	-3.27	26874.534	5.0	43163.282	4.0
613.7625	22.00	-1.75	25699.950	2.0	41988.390	3.0
613.7697	26.00	-1.38	20874.482	3.0	37162.729	3.0
613.7866	25.01	-3.73	82136.200	4.0	98424.000	3.0
613.7869	9.02	-3.06	441158.600	1.5	457446.390	.5
613.7941	25.01	-2.91	82136.200	4.0	98423.800	4.0
613.7979	25.01	-2.49	82136.200	4.0	98423.700	5.0
613.8050	23.00	-3.55	18805.050	.5	35092.360	1.5
613.8064	28.00	-3.87	42585.296	4.0	58872.570	4.0
613.8138	14.00	-1.35	48264.292	3.0	64551.370	4.0
613.8181	22.00	-3.13	27614.667	4.0	43901.630	4.0
613.8348	24.00	-.70	41086.260	3.0	57372.780	4.0
613.8430	39.00	-2.36	483.945	0.0	16774.756	0.0
613.8445	22.00	-1.63	17369.590	1.0	33655.853	2.0
613.8608	28.01	-4.38	121240.900	3.5	137526.730	2.5
613.8653	18.01	-1.78	143107.600	2.5	159393.310	1.5
613.8676	18.01	-2.27	170530.310	3.5	186815.960	3.5
613.8801	24.01	-2.47	52298.120	3.5	68583.440	2.5
613.8970	16.01	-.90	140318.800	3.5	156603.670	3.5
613.9061	25.02	-1.33	216194.050	5.5	232478.680	4.5
613.9374	28.01	-2.35	105861.190	2.5	122144.990	2.5
613.9392	23.00	-5.64	14548.830	2.5	30832.580	2.5
613.9441	23.00	-6.31	13810.900	.5	30094.520	1.5
613.9698	17.00	-2.09	85442.430	1.5	101725.370	1.5
613.9732	23.00	-1.49	26122.040	3.5	42404.890	3.5
613.9807	10.01	-3.74	302829.060	4.5	319111.710	4.5
613.9822	28.01	-3.06	121240.900	3.5	137523.510	3.5
614.0070	73.00	-.53	26052.379	0.0	42338.838	0.0
614.0245	17.00	-.81	82918.893	2.5	99200.382	3.5
614.0460	40.00	-1.88	4113.534	0.0	20398.959	0.0
614.0580	25.00	-4.17	35165.050	1.5	51445.650	1.5
614.0602	10.01	-4.16	302831.170	3.5	319111.710	4.5
614.0606	10.01	-3.97	302831.170	3.5	319111.700	3.5
614.0675	26.02	-3.77	206324.890	2.0	222605.240	3.0
614.0710	71.00	-1.46	21293.585	0.0	37578.347	0.0
614.0841	23.00	-4.53	34374.810	3.5	50654.720	2.5
614.0897	25.01	-3.51	82144.340	3.0	98424.100	2.0
614.0935	25.01	-2.87	82144.340	3.0	98424.000	3.0
614.1010	26.01	-5.43	26055.400	2.5	42334.660	2.5
614.1010	25.01	-2.68	82144.340	3.0	98423.800	4.0
614.1187	9.02	-2.77	441167.400	.5	457446.390	.5
614.1200	4.02	-.83	981187.000	0.0	997470.463	0.0
614.1248	10.01	-1.43	302816.980	1.5	319095.810	2.5
614.1316	28.01	-4.84	114836.630	3.5	131115.280	4.5
614.1372	23.01	-4.52	20980.920	2.0	37259.420	1.0
614.1391	9.02	-1.70	441276.720	2.5	457555.170	1.5
614.1437	28.01	-3.36	121240.900	3.5	137519.230	2.5
614.1467	24.00	-4.44	46368.350	3.0	62646.600	2.0
614.1510	59.01	-1.74	9275.615	0.0	25558.256	0.0
614.1577	26.00	-3.36	33765.291	2.0	50043.250	1.0
614.1678	22.00	-4.78	20062.980	1.0	36340.670	2.0
614.1712	26.02	-4.12	206328.220	3.0	222605.820	4.0
614.1713	56.01	-.16	5674.824	0.0	21956.926	0.0
614.1741	26.00	-1.85	29056.312	3.0	45333.834	2.0
614.1749	22.00	-4.38	26803.417	2.0	43080.920	2.0
614.1769	24.00	-2.42	33906.650	1.0	50184.100	2.0
614.1878	23.00	-4.52	8715.720	3.5	24992.880	3.5
614.1931	26.02	-4.45	206328.220	3.0	222605.240	3.0
614.1936	17.00	-1.81	83130.900	1.5	99407.907	.5
614.2027	28.00	-2.05	33500.854	3.0	49777.619	3.0
614.2054	18.00	-4.42	106237.597	2.0	122514.290	1.0
614.2204	14.00	-2.26	45321.848	3.0	61598.145	2.0
614.2210	23.02	-1.58	145647.000	1.5	161923.280	2.5
614.2320	24.00	-3.89	33934.880	3.0	50210.870	4.0
614.2350	25.00	-.25	45754.270	3.5	62030.180	4.5
614.2483	14.00	-.92	45321.848	3.0	61597.404	3.0
614.2510	41.00	-1.14	14760.326	0.0	31040.316	0.0
614.2689	9.00	-1.64	117308.558	1.5	133583.570	2.5
614.2693	7.00	-3.19	93581.520	.5	109856.520	1.5
614.2701	24.00	-1.45	41086.260	3.0	57361.240	3.0
614.2855	29.01	-1.62	122867.530	1.0	139142.100	2.0
614.2931	25.01	-4.88	49291.310	3.0	65565.680	4.0
614.2942	25.01	-3.65	55115.800	2.0	71390.140	3.0
614.3063	10.00	-.35	134041.840	2.0	150315.861	2.0
614.3195	25.00	-4.37	33825.490	2.5	50099.160	1.5
614.3200	40.00	-1.68	564.603	0.0	16842.764	0.0
614.3282	10.01	-2.31	327774.480	4.5	344047.920	3.5
614.3314	22.00	-4.59	25643.695	3.0	41917.050	4.0
614.3437	25.01	-3.13	82151.070	2.0	98424.100	2.0
614.3475	25.01	-3.13	82151.070	2.0	98424.000	3.0
614.3486	26.02	-3.22	182444.700	3.0	198717.600	4.0
614.3520	10.01	-.78	327775.110	3.5	344047.920	3.5
614.3648	27.00	-7.16	8460.810	2.5	24733.280	2.5
614.3735	24.01	-2.88	74318.860	2.5	90591.100	2.5
614.3746	27.00	-1.15	30102.960	2.5	46375.170	1.5
614.3903	28.00	-3.75	42954.234	2.0	59226.030	1.0
614.3904	28.00	-2.84	42767.900	3.0	59039.693	4.0
614.3940	74.00	-1.37	22342.133	0.0	38618.334	0.0
614.4294	24.00	-4.26	33040.100	2.0	49310.860	3.0
614.4354	8.01	-3.72	261869.400	2.5	278140.000	1.5
614.4530	76.00	-2.71	8630.355	0.0	24904.993	0.0
614.4560	73.00	-2.04	10566.135	0.0	26840.693	0.0
614.4751	26.02	-3.00	183431.280	5.0	199700.830	4.0
614.4917	28.01	-4.33	120250.170	3.5	136519.280	4.5
614.4936	22.00	-2.46	15220.390	5.0	31489.451	4.0
614.4958	20.01	-1.43	74484.920	.5	90753.920	1.5
614.5016	14.00	-.82	45293.629	2.0	61562.477	3.0
614.5018	9.00	-1.76	117308.558	1.5	133577.400	1.5
614.5147	24.00	-1.91	46422.460	4.0	62690.960	5.0
614.5170	28.01	-3.52	115956.710	2.5	132225.150	1.5
614.5178	26.01	-4.14	87340.400	5.5	103608.820	4.5
614.5193	25.01	-3.94	82155.720	1.0	98424.100	2.0
614.5268	10.01	-2.58	302843.530	3.5	319111.710	4.5
614.5272	10.01	-4.02	302843.530	3.5	319111.700	3.5
614.5300	57.00	-.66	14921.641	0.0	31194.240	0.0
614.5310	28.01	-3.46	121294.670	4.5	137562.740	3.5
614.5419	26.00	-3.58	27166.804	4.0	43434.585	3.0
614.5435	26.01	-2.99	83305.370	3.5	99573.110	4.5
614.5445	18.00	-1.32	107289.747	2.0	123557.459	3.0
614.5491	10.01	-2.67	302844.110	2.5	319111.700	3.5
614.5630	22.00	-2.85	11639.804	3.0	27907.026	2.0
614.5650	9.00	-2.75	117391.950	.5	133659.120	.5
614.5810	75.00	-.58	27020.269	0.0	43291.517	0.0
614.5998	26.02	-3.78	182392.550	2.0	198658.800	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUF	JUP
614.6054	24.00	-3.71	31355.210	2.0	47621.310	3.0
614.6213	22.00	-1.06	15108.121	3.0	31373.801	3.0
614.6220	21.00	-.64	17012.980	2.5	33278.640	3.5
614.6236	22.00	-2.65	25635.740	1.0	41901.360	1.0
614.6340	7.00	-2.78	97805.810	1.5	114071.153	1.5
614.6368	17.00	-2.38	85735.091	1.5	102000.360	1.5
614.6406	27.00	-3.23	16467.900	4.5	32733.070	3.5
614.6470	18.01	-1.32	191012.350	1.5	207277.350	1.5
614.6527	24.00	-4.75	31987.060	4.0	48251.910	3.0
614.6530	57.01	-3.44	1935.780	0.0	18205.122	0.0
614.6534	25.02	.08	179683.610	4.5	195948.440	3.5
614.6542	25.02	-.63	176100.710	.5	192365.520	1.5
614.6647	25.02	-3.11	176683.760	2.5	192948.290	1.5
614.6700	24.00	-2.83	41086.260	3.0	57350.650	2.0
614.6820	75.00	-1.75	16212.162	0.0	32480.737	0.0
614.6833	25.00	-3.62	35041.370	3.5	51305.410	2.5
614.6886	30.02	-1.02	219360.000	4.0	235623.900	3.0
614.6943	22.00	-4.38	25493.722	2.0	41757.470	3.0
614.7150	24.01	-3.02	38362.560	1.5	54625.760	2.5
614.7233	28.01	-4.98	118379.110	2.5	134642.090	3.5
614.7384	24.00	-3.60	38537.680	5.0	54800.260	6.0
614.7545	14.00	-3.45	48102.323	2.0	64364.480	2.0
614.7728	26.01	-2.89	31364.470	1.5	47626.140	.5
614.7838	26.00	-2.43	32873.623	4.0	49135.003	3.0
614.7922	9.01	-3.65	253312.480	1.0	269573.640	1.0
614.7952	28.01	-1.03	116468.400	1.5	132729.480	2.5
614.8130	41.00	-1.22	13389.148	0.0	29654.256	0.0
614.8246	28.01	.05	103653.030	3.5	119913.330	4.5
614.8345	23.00	-3.55	8578.520	2.5	24838.560	3.5
614.8674	28.01	.09	105439.850	1.5	121699.020	1.5
614.8852	28.01	-4.29	114874.880	2.5	131133.580	2.5
614.8904	22.00	-2.59	25699.950	2.0	41958.510	2.0
614.8959	22.00	-1.91	29986.185	3.0	46244.600	2.0
614.9100	62.01	-1.36	12905.203	0.0	29167.745	0.0
614.9177	22.00	-1.38	25926.820	4.0	42184.660	4.0
614.9234	26.01	-2.89	31368.450	.5	47626.140	.5
614.9280	60.00	-1.51	0.000	0.0	16262.066	0.0
614.9353	17.00	-3.24	84688.637	.5	100946.010	.5
614.9502	24.00	-4.61	31364.330	3.0	47621.310	3.0
614.9672	10.01	-2.38	302839.280	2.5	319095.610	2.5
614.9682	7.00	-2.92	97770.150	.5	114026.654	.5
614.9736	9.00	-2.01	102680.435	1.5	118936.797	1.5
614.9768	22.00	-1.49	17423.853	2.0	33680.130	3.0
614.9782	10.01	-1.08	302839.280	2.5	319095.520	3.5
614.9816	24.00	-2.61	38730.670	2.0	54986.820	3.0
614.9824	25.01	-3.59	86449.240	4.0	102705.370	3.0
614.9861	29.01	-3.77	128558.900	3.0	144814.930	3.0
614.9926	26.02	-4.82	135279.040	2.0	151534.900	2.0
614.9998	26.02	.52	184951.620	3.0	201207.290	4.0
615.0100	26.01	-5.08	25981.650	3.5	42237.050	3.5
615.0100	12.02	-.13	548034.400	0.0	564289.800	1.0
615.0138	23.02	-3.48	144772.020	3.5	161027.320	4.5
615.0164	23.00	-1.53	2424.890	4.5	18680.120	5.5
615.0166	22.00	-3.50	26892.926	3.0	43148.150	3.0
615.0206	22.00	-1.78	25797.600	3.0	42052.720	3.0
615.0319	29.01	.23	120789.630	4.0	137044.450	4.0
615.0550	10.01	-.70	301948.000	1.5	318202.210	1.5
615.0592	25.01	-3.79	86449.240	4.0	102703.340	4.0
615.0751	7.01	-1.22	186511.580	2.0	202765.260	2.0
615.0781	10.01	-1.38	301948.000	1.5	318201.600	.5
615.0936	25.00	-2.95	51638.170	2.5	67891.360	3.5
615.0990	17.00	-1.46	85735.091	1.5	101988.140	2.5
615.1057	10.01	-4.48	322348.010	3.5	338600.680	4.5
615.1057	10.01	-1.15	322348.010	4.5	338600.880	4.5
615.1065	10.01	-2.32	322348.010	4.5	338600.860	5.5
615.1090	17.00	-2.29	83894.037	3.5	100146.622	3.5
615.1197	25.02	-.36	179339.590	2.5	195592.090	1.5
615.1258	17.00	-2.32	84485.309	1.5	100737.650	.5
615.1266	6.01	-.15	168123.740	1.5	184376.060	2.5
615.1515	23.00	-3.95	8578.520	2.5	24830.180	1.5
615.1519	23.00	-3.35	8476.200	1.5	24727.850	2.5
615.1535	6.01	.01	168124.450	2.5	184376.060	3.5
615.1535	6.01	-1.29	168124.450	2.5	184376.060	2.5
615.1567	28.00	-2.47	42621.048	3.0	58872.570	4.0
615.1595	9.01	-3.11	253312.480	1.0	269563.930	2.0
615.1623	26.00	-3.52	17550.180	3.0	33801.555	2.0
615.1966	28.01	-4.94	120268.810	3.5	136519.280	4.5
615.1990	90.00	-1.91	7420.492	0.0	23675.395	0.0
615.2098	24.00	-2.30	33060.740	3.0	49310.860	3.0
615.2113	28.01	-4.37	114874.880	2.5	131124.960	3.5
615.2144	28.01	-2.74	116732.510	2.5	132982.510	1.5
615.2250	92.00	-1.34	10243.505	0.0	26497.721	0.0
615.2318	14.00	-2.79	48102.323	2.0	64351.860	1.0
615.2322	14.00	-2.12	48102.323	2.0	64351.850	3.0
615.2435	18.01	-4.40	186171.260	.5	202420.490	.5
615.2439	24.00	-2.58	33934.880	3.0	50184.100	2.0
615.2474	26.00	-4.76	40534.180	3.0	56783.306	3.0
615.2477	23.00	-4.63	323.420	3.5	16572.540	3.5
615.2540	73.00	-.25	27584.872	0.0	43838.322	0.0
615.2556	14.02	-.70	234387.640	1.0	250636.550	2.0
615.2570	9.00	-2.02	117308.558	1.5	133557.430	2.5
615.2580	70.01	-.45	32908.268	0.0	49161.612	0.0
615.2583	28.01	-4.13	120270.440	5.5	136519.280	4.5
615.2643	28.01	-3.15	120144.170	2.5	136392.850	3.5
615.2696	24.00	-2.33	46422.460	4.0	62671.000	4.0
615.2704	28.01	-3.00	105838.060	3.5	122086.580	3.5
615.2715	24.00	-4.91	27820.230	3.0	44068.720	3.0
615.2730	24.00	-1.88	33935.650	2.0	50184.100	2.0
615.2760	6.00	-4.67	71385.380	2.0	87633.750	2.0
615.2925	22.00	-3.27	11639.804	3.0	27887.740	3.0
615.3200	26.01	-3.84	48039.230	2.5	64286.440	3.5
615.3412	25.00	-2.98	51718.220	1.5	67964.870	2.5
615.3514	21.00	-4.11	14926.240	2.5	31172.620	1.5
615.3730	74.00	-1.59	19115.832	0.0	35366.139	0.0
615.3867	24.01	-4.36	31219.490	4.5	47464.940	4.5
615.3878	9.02	-1.25	442147.190	2.5	458392.610	1.5
615.3908	29.01	-1.47	120789.630	4.0	137034.970	3.0
615.3912	29.01	-4.18	128569.600	2.0	144814.930	3.0
615.3920	23.02	-3.61	146139.800	2.5	162385.110	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
615.4094	28.01	-3.17	121317.890	3.5	137562.740	3.5
615.4109	7.01	-.39	210239.830	1.0	226484.640	2.0
615.4158	29.01	.17	120092.200	2.0	136336.880	1.0
615.4226	11.00	-1.56	16956.172	.5	33200.675	.5
615.4363	26.02	.57	183456.690	3.0	199700.830	4.0
615.4427	24.00	-.44	38730.670	2.0	54974.640	2.0
615.4446	23.00	-1.14	23353.090	3.5	39597.010	4.5
615.4500	73.00	-1.82	9920.875	0.0	26169.149	0.0
615.4537	26.02	-.69	183457.150	4.0	199700.830	4.0
615.4647	23.00	-2.86	17116.920	3.5	33360.310	3.5
615.4696	28.01	-3.02	119833.000	5.5	136076.260	4.5
615.4860	74.00	-1.78	17583.339	0.0	33830.662	0.0
615.5102	28.01	-4.13	105838.060	3.5	122080.250	2.5
615.5129	18.01	-4.47	158167.710	1.5	174409.830	1.5
615.5135	14.00	-.40	45321.848	3.0	61563.952	4.0
615.5227	18.00	-2.08	106237.597	2.0	122479.459	1.0
615.5238	26.01	-4.65	44915.070	3.5	61156.900	3.5
615.5333	23.00	-1.39	26122.040	3.5	42363.620	3.5
615.5385	9.00	-4.12	102840.376	.5	119081.820	.5
615.5443	28.01	-3.62	121294.670	4.5	137535.960	3.5
615.5458	24.01	-3.22	74484.250	2.5	90725.500	3.5
615.5465	18.00	-1.46	107131.755	1.0	123372.987	2.0
615.5595	28.01	-1.71	117662.110	1.5	133903.000	1.5
615.5610	40.00	-1.34	12663.231	0.0	28908.575	0.0
615.5693	14.00	-1.69	45321.848	3.0	61562.477	3.0
615.5894	26.02	-4.92	182418.700	4.0	198658.800	3.0
615.6023	20.00	-4.23	20335.360	1.0	36575.119	2.0
615.6121	24.00	-4.07	46422.460	4.0	62661.960	3.0
615.6170	9.02	-1.31	441315.800	.5	457555.170	1.5
615.6254	17.00	-4.30	84988.480	1.5	101227.630	.5
615.6273	27.02	-4.35	155702.400	1.5	171941.500	.5
615.6273	27.02	-4.35	155702.400	1.5	171941.500	.5
615.6303	25.02	.40	176641.140	3.5	192880.160	3.5
615.6303	24.01	-2.84	74273.480	1.5	90512.500	1.5
615.6360	20.02	-3.18	344149.810	2.0	360388.680	3.0
615.6375	23.01	-6.79	18353.890	3.0	34592.720	2.0
615.6381	26.00	-4.12	27394.676	3.0	43633.491	2.0
615.6603	23.01	-3.74	30641.710	3.0	46879.940	2.0
615.6626	28.01	-3.65	120281.110	4.5	136519.280	4.5
615.7012	29.01	-3.92	117747.450	3.0	133984.600	3.0
615.7058	24.00	-3.78	31393.400	5.0	47630.430	6.0
615.7138	22.00	-3.25	17423.853	2.0	33660.671	1.0
615.7353	22.00	-2.10	21588.496	4.0	37824.748	4.0
615.7395	21.00	-4.18	25724.720	3.5	41960.660	2.5
615.7399	22.00	-2.02	25635.740	1.0	41871.870	2.0
615.7517	22.00	-2.29	25635.740	1.0	41871.560	0.0
615.7550	62.01	-1.85	11292.053	0.0	27532.278	0.0
615.7581	28.01	-1.31	121042.570	1.5	137278.220	1.5
615.7627	29.01	-.75	122745.770	2.0	138981.300	2.0
615.7657	22.00	-4.53	20062.980	1.0	36298.430	1.0
615.7710	40.00	-.12	19519.120	0.0	35758.923	0.0
615.7732	26.00	-.92	32873.623	4.0	49108.876	4.0
615.7767	23.00	-3.54	8412.940	.5	24648.100	1.5
615.7794	24.01	-3.54	53271.070	2.5	69506.160	3.5
615.7816	24.01	-4.41	54444.190	3.5	70679.220	4.5
615.7885	17.00	-2.78	84988.480	1.5	101223.330	2.5
615.7904	29.01	-1.85	120684.550	3.0	136919.350	3.0
615.8000	28.00	-2.63	42954.234	2.0	59188.780	3.0
615.8030	76.00	.09	34602.076	0.0	50841.036	0.0
615.8040	26.01	-3.30	50142.930	2.5	66377.370	3.5
615.8093	13.01	-.56	133914.100	2.0	150148.400	3.0
615.8370	25.02	-.49	179228.690	1.5	195462.260	.5
615.8457	21.00	-4.56	15041.980	3.5	31275.320	3.5
615.8476	22.01	-6.64	15257.530	4.5	31490.820	3.5
615.8514	27.00	-3.85	17233.680	3.5	33466.870	3.5
615.8568	20.01	-1.18	74521.750	1.5	90754.800	2.5
615.8571	23.00	-4.08	26344.940	4.5	42577.980	5.5
615.8613	23.00	-1.04	26171.960	4.5	42404.890	3.5
615.8799	23.01	-3.19	36425.070	4.0	52657.510	4.0
615.8814	26.02	.13	185061.350	1.0	201293.750	2.0
615.8840	73.00	-1.44	17260.709	0.0	33497.533	0.0
615.8849	10.01	-1.31	301948.000	1.5	318180.310	2.5
615.8890	28.01	-4.91	101740.270	3.5	117972.470	3.5
615.8902	20.01	-2.13	74521.750	1.5	90753.920	1.5
615.8964	14.00	-2.41	48020.074	1.0	64252.080	2.0
615.8966	22.00	-2.48	17423.853	2.0	33655.853	2.0
615.9004	9.00	-2.51	117391.950	.5	133623.850	1.5
615.9016	10.01	-1.48	301948.000	1.5	318179.870	1.5
615.9090	59.01	-2.14	9275.615	0.0	25511.780	0.0
615.9115	26.00	-4.87	31805.059	3.0	48036.667	2.0
615.9281	28.01	-3.08	100592.980	3.5	116824.150	2.5
615.9351	26.00	-1.45	37162.729	3.0	53393.715	4.0
615.9402	25.01	-2.73	86449.240	4.0	102680.090	5.0
615.9454	7.00	-3.14	93581.520	.5	109812.233	.5
615.9473	22.00	-3.19	26803.417	2.0	43034.080	1.0
615.9482	24.00	-4.71	27820.230	3.0	44050.670	4.0
615.9543	25.00	-3.71	34938.700	4.5	51169.180	5.5
615.9560	62.00	-1.11	2258.411	0.0	18493.337	0.0
615.9619	28.01	-3.48	115565.980	2.5	131796.260	2.5
615.9622	37.00	-1.68	12816.545	0.0	29051.307	0.0
615.9892	26.02	-.57	183431.280	5.0	199660.840	5.0
615.9940	71.01	.18	32343.666	0.0	48577.590	0.0
615.9983	28.01	-4.35	100609.010	2.5	116838.330	1.5
616.0046	22.00	-4.68	27614.667	4.0	43843.820	3.0
616.0047	27.00	-3.66	17233.680	3.5	33462.630	2.5
616.0165	28.01	-4.84	121294.670	4.5	137523.510	3.5
616.0200	40.00	-1.43	12663.231	0.0	28896.470	0.0
616.0256	28.02	-3.71	121802.800	3.0	138031.400	4.0
616.0370	28.01	-4.16	114874.880	2.5	131103.180	2.5
616.0418	22.00	-4.40	25643.695	3.0	41871.870	2.0
616.0420	62.01	-1.73	10888.765	0.0	27121.424	0.0
616.0446	25.02	-.76	216533.060	6.5	232761.160	5.5
616.0651	28.01	-1.90	121050.660	2.5	137278.220	1.5
616.0746	26.01	-3.78	44929.590	2.5	61156.900	3.5
616.0747	11.00	-1.26	16973.368	1.5	33200.675	.5
616.0837	28.01	-3.85	106620.530	3.5	122847.600	3.5
616.0886	20.02	-1.12	327922.870	2.0	344149.810	2.0
616.1013	28.00	-4.61	40484.282	2.0	56710.889	2.0
616.1090	26.00	-2.57	37521.144	2.0	53747.547	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
616.1190	59.01	-1.10	8388.382	0.0	24619.013	0.0
616.1259	23.00	-4.85	34428.760	1.5	50654.720	2.5
616.1297	20.00	-3.05	20349.260	2.0	36575.119	2.0
616.1460	28.01	-3.74	99340.550	3.5	115565.980	2.5
616.1540	22.01	-4.99	15265.600	3.5	31490.820	3.5
616.1767	28.00	-4.76	42767.900	3.0	58992.520	2.0
616.1969	23.01	-3.74	20980.920	2.0	37205.010	3.0
616.1976	23.00	-4.90	137.380	2.5	16361.450	1.5
616.2010	26.02	-4.79	167207.300	4.0	183431.280	5.0
616.2090	17.00	-1.52	83130.900	1.5	99354.670	1.5
616.2155	28.01	-2.85	105861.190	2.5	122084.790	1.5
616.2173	20.00	-.30	15315.943	2.0	31539.495	1.0
616.2267	14.00	-2.92	48020.074	1.0	64243.380	2.0
616.2322	28.01	-4.74	119656.250	3.5	135879.410	3.5
616.2478	7.01	-.76	210266.040	2.0	226488.790	3.0
616.2573	26.02	-4.74	166222.200	4.0	182444.700	3.0
616.2577	20.02	-3.12	346896.260	2.0	363118.750	3.0
616.2755	23.00	-4.83	34529.810	4.5	50751.830	3.5
616.2808	23.01	-5.04	23391.090	5.0	39612.970	5.0
616.2956	24.00	-2.36	38597.060	1.0	54818.550	2.0
616.2967	9.00	-2.62	117391.950	.5	133613.410	.5
616.2995	22.00	-3.21	27750.124	5.0	43971.513	5.0
616.2998	26.02	-4.60	135316.420	5.0	151537.800	4.0
616.3146	24.01	-3.89	74504.510	4.5	90725.500	3.5
616.3201	7.00	-3.23	97805.810	1.5	114026.654	.5
616.3418	28.00	-.74	33112.368	3.0	49332.643	4.0
616.3456	17.00	-2.77	85917.937	.5	102138.110	.5
616.3507	23.00	-4.25	13801.530	1.5	30021.570	.5
616.3594	10.00	-.59	134818.640	0.0	151038.452	1.0
616.3614	26.01	-3.67	50157.610	4.5	66377.370	3.5
616.3686	10.01	-1.54	327774.480	4.5	343994.050	4.5
616.3689	10.01	.19	327774.480	4.5	343994.040	5.5
616.3754	20.00	-3.02	20335.360	1.0	36554.749	1.0
616.3788	24.01	-4.61	33619.130	4.5	49838.430	4.5
616.3880	28.01	-3.46	105861.190	2.5	122080.250	2.5
616.3925	10.01	.10	327775.110	3.5	343994.050	4.5
616.3932	17.00	-2.16	84485.309	1.5	100704.230	1.5
616.4054	7.01	-1.54	210266.040	2.0	226484.640	2.0
616.4144	9.00	-1.99	117872.916	1.5	134091.280	1.5
616.4320	41.00	-1.23	13308.491	0.0	29530.880	0.0
616.4442	9.02	-.25	441158.600	1.5	457376.180	.5
616.4500	92.00	-1.77	7259.177	0.0	23481.093	0.0
616.4657	22.00	-2.40	15156.787	4.0	31373.801	3.0
616.4792	25.01	-4.93	48333.060	5.0	64549.720	6.0
616.4800	7.01	-.50	210266.040	2.0	226482.680	3.0
616.5108	17.00	-2.68	85244.330	.5	101460.160	1.5
616.5123	18.00	-2.49	107289.747	2.0	123505.536	2.0
616.5242	28.00	-1.56	33112.368	3.0	49327.845	2.0
616.5364	26.00	-.89	33412.706	3.0	49627.861	4.0
616.5404	28.01	-3.98	116786.420	.5	133001.470	.5
616.5454	17.00	-1.99	84132.262	2.5	100347.182	2.5
616.5526	26.02	.46	184951.620	3.0	201166.350	3.0
616.5572	15.01	-.28	87125.400	2.0	103340.010	2.0
616.5700	57.00	-.81	7420.492	0.0	23639.251	0.0
616.5758	28.01	-3.98	119665.290	2.5	135879.410	3.5
616.5765	26.02	-4.10	182444.700	3.0	198658.800	3.0
616.5777	22.01	-2.95	52631.070	3.5	68845.140	2.5
616.5944	25.01	-4.58	65567.070	2.0	81780.700	3.0
616.5950	59.01	-1.08	7339.834	0.0	23557.935	0.0
616.6073	28.01	-3.00	121317.890	3.5	137531.180	4.5
616.6074	10.01	-.52	301948.000	1.5	318161.290	2.5
616.6225	28.01	-4.10	119909.720	1.5	136122.610	2.5
616.6340	26.02	-.53	184951.620	3.0	201164.210	2.0
616.6440	20.00	-2.90	20335.360	1.0	36547.688	0.0
616.6628	9.00	-.83	117872.916	1.5	134084.750	2.5
616.6788	18.01	-1.34	192712.000	1.5	208923.410	2.5
616.7070	23.00	-4.27	13810.900	.5	30021.570	.5
616.7074	23.02	-1.85	146549.620	4.5	162760.280	4.5
616.7283	17.00	-3.67	85735.091	1.5	101945.200	.5
616.7283	17.00	-2.83	85735.091	1.5	101945.200	1.5
616.7286	15.00	-1.80	65585.000	2.5	81795.100	3.5
616.7607	22.00	-2.03	18825.890	1.0	35035.147	2.0
616.7618	28.01	-2.92	105838.060	3.5	122047.290	3.5
616.7629	18.01	-.85	192712.000	1.5	208921.200	1.5
616.7755	7.01	.02	186652.490	4.0	202861.360	3.0
616.7789	9.02	-.55	441167.400	.5	457376.180	.5
616.7827	23.00	-1.83	26344.940	4.5	42553.620	4.5
616.7922	22.00	-3.88	11531.760	2.0	27740.190	2.0
616.8010	8.02	-2.93	356838.000	1.0	373046.200	0.0
616.8029	14.02	-.39	234428.400	1.0	250636.550	2.0
616.8048	24.00	-3.68	31377.960	4.0	47586.060	5.0
616.8139	23.00	-4.21	18805.050	.5	35012.910	.5
616.8173	28.01	-3.89	111783.790	3.5	127991.560	3.5
616.8227	24.00	-.63	38597.060	1.0	54804.690	1.0
616.8330	62.01	-1.78	12663.231	0.0	28875.074	0.0
616.8333	25.01	-3.42	55115.800	2.0	71323.150	2.0
616.8543	23.01	-4.80	30673.140	2.0	46879.940	2.0
616.8718	22.00	-3.09	27025.652	4.0	43231.990	4.0
616.8779	26.00	-4.54	29356.780	2.0	45562.959	3.0
616.8832	27.00	-3.84	17233.680	3.5	33439.720	4.5
616.8960	26.00	-2.86	34328.733	3.0	50534.435	3.0
616.8992	28.01	-2.91	121317.890	3.5	137523.510	3.5
616.9042	20.00	-2.55	20349.260	2.0	36554.749	1.0
616.9137	10.01	-3.69	302890.570	2.5	319095.810	2.5
616.9247	10.01	-2.39	302890.570	2.5	319095.520	3.5
616.9457	26.00	-3.81	35257.309	4.0	51461.707	4.0
616.9468	26.00	-4.94	27559.568	2.0	43763.938	1.0
616.9563	20.00	-2.29	20371.000	3.0	36575.119	2.0
616.9567	26.00	-2.23	38175.332	3.0	54379.440	3.0
616.9726	26.02	.66	183457.150	4.0	199660.840	5.0
616.9746	26.02	.76	183431.280	5.0	199634.920	6.0
616.9820	90.00	-1.60	4920.109	0.0	21128.037	0.0
616.9833	14.02	-.31	227665.090	2.0	243868.500	3.0
617.0039	14.00	-3.40	47284.061	1.0	63486.930	1.0
617.0165	7.01	-.29	186511.580	2.0	202714.120	1.0
617.0175	18.00	-1.78	106237.597	2.0	122440.109	2.0
617.0218	19.02	-2.46	246625.600	1.5	262828.000	1.5
617.0260	25.02	-1.30	216062.130	2.5	232264.420	3.5
617.0332	18.01	-3.12	189040.870	1.5	205242.970	.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
617.0336	23.00	-1.69	2311.370	3.5	18513.460	4.5
617.0460	73.00	-.57	27584.872	0.0	43791.119	0.0
617.0482	26.00	-.80	38678.015	2.0	54879.720	2.0
617.0490	60.01	-1.58	9598.245	0.0	25804.413	0.0
617.0564	22.00	-3.41	26657.409	4.0	42858.900	3.0
617.0567	28.00	-1.38	33112.368	3.0	49313.851	3.0
617.0580	24.00	-4.67	35862.820	4.0	52064.270	4.0
617.0595	22.00	-2.03	25699.950	2.0	41901.360	1.0
617.0600	28.00	-1.84	32973.414	4.0	49174.811	4.0
617.0621	28.01	-3.17	121317.890	3.5	137519.230	2.5
617.0704	2.01	-1.00	421353.130	0.0	437558.736	0.0
617.0751	24.01	-3.28	54678.950	4.5	70879.950	5.5
617.0984	26.00	-2.19	38175.332	3.0	54375.719	2.0
617.1094	28.01	-1.72	117662.110	1.5	133862.210	1.5
617.1299	27.00	-1.44	40345.950	2.5	56545.510	2.5
617.1555	24.00	-2.07	33906.650	1.0	50105.540	1.0
617.1562	24.00	-3.21	38537.680	5.0	54736.550	4.0
617.1623	24.00	-4.79	35813.730	3.0	52012.440	2.0
617.1677	25.01	-4.20	53017.160	1.0	69215.730	1.0
617.1850	92.00	-1.04	7581.807	0.0	23784.404	0.0
617.1932	29.01	-.03	120875.850	2.0	137073.750	2.0
617.2050	24.00	-1.74	33113.270	4.0	49310.860	3.0
617.2157	23.00	-5.80	9824.580	2.5	26021.890	3.5
617.2229	23.00	-3.15	20828.480	2.5	37025.600	3.5
617.2286	18.01	-.26	154203.970	3.5	170400.940	2.5
617.2465	26.02	-3.43	166222.200	4.0	182418.700	4.0
617.2503	25.02	-4.44	176683.760	2.5	192880.160	3.5
617.2622	28.01	-2.84	116786.420	.5	132982.510	1.5
617.2625	23.02	-2.40	146139.800	2.5	162335.880	3.5
617.2730	57.01	-3.31	967.890	0.0	17168.177	0.0
617.2764	16.00	-1.84	64888.014	1.0	81083.730	1.0
617.2801	28.01	-1.78	117662.110	1.5	133857.730	.5
617.2809	13.01	-.69	133914.100	2.0	150109.700	3.0
617.2862	28.01	-3.24	116732.510	2.5	132927.970	1.5
617.2999	25.02	-.90	216283.580	3.5	232478.680	4.5
617.3012	26.00	-8.06	7985.783	2.0	24180.848	3.0
617.3038	7.00	-2.49	96750.810	1.5	112945.809	2.5
617.3045	28.01	-.74	117872.780	2.5	134067.760	1.5
617.3050	63.01	-1.46	10566.135	0.0	26765.583	0.0
617.3068	23.00	-3.67	21032.520	3.5	37227.440	2.5
617.3102	18.00	-1.62	106087.305	1.0	122282.134	2.0
617.3216	20.02	-.21	323003.560	1.0	339198.090	1.0
617.3312	7.01	-.12	186570.980	3.0	202765.260	2.0
617.3325	26.00	-3.09	17927.378	1.0	34121.623	0.0
617.3527	16.00	-1.37	64888.014	1.0	81081.730	2.0
617.3556	24.01	-3.80	74318.860	2.5	90512.500	1.5
617.3613	14.02	-2.76	159069.610	0.0	175263.100	1.0
617.3634	26.00	-3.62	35856.386	2.0	52049.820	2.0
617.3688	16.00	-1.72	64890.436	0.0	81083.730	1.0
617.3796	24.00	-3.95	28682.180	2.0	44875.190	2.0
617.3824	14.00	-3.00	48102.323	2.0	64295.260	3.0
617.4143	16.00	-3.02	64891.632	2.0	81083.730	1.0
617.4310	23.00	-1.85	26171.960	4.5	42363.620	3.5
617.4333	29.01	-2.53	118484.000	3.0	134675.600	2.0
617.4341	7.01	-1.63	206910.240	0.0	223101.820	1.0
617.4402	18.01	-4.93	174820.930	.5	191012.350	1.5
617.4450	62.00	-1.67	806.575	0.0	17002.350	0.0
617.4501	28.01	-4.53	114942.420	1.5	131133.580	2.5
617.4585	28.01	-.75	117763.910	1.5	133954.850	.5
617.4599	17.00	-3.37	85917.937	.5	102108.840	1.5
617.4642	22.00	-1.91	25797.600	3.0	41988.390	3.0
617.4772	26.02	-3.65	166222.200	4.0	182412.650	4.0
617.4778	22.00	-2.14	21469.494	3.0	37659.927	3.0
617.4780	25.00	-3.88	35114.980	2.5	51305.410	2.5
617.4787	7.01	-.34	210301.680	3.0	226492.090	4.0
617.4906	16.00	-1.84	64891.632	2.0	81081.730	2.0
617.4928	23.00	-2.46	17116.920	3.5	33306.960	4.5
617.5020	27.00	-1.44	29735.180	3.5	45924.980	3.5
617.5165	26.01	-2.41	50187.950	3.5	66377.370	3.5
617.5211	25.02	-.63	215875.730	2.5	232065.030	2.5
617.5360	28.00	-.68	32982.280	1.0	49171.187	1.0
617.5363	29.01	-4.93	130386.400	2.0	146575.300	2.0
617.5380	92.00	-1.52	4194.191	0.0	20387.526	0.0
617.5436	24.00	-4.88	24897.550	4.0	41086.260	3.0
617.5527	24.01	-4.36	68305.730	1.5	84494.200	2.5
617.5607	23.00	-1.06	23210.560	2.5	39398.820	3.5
617.5709	22.00	-2.83	26892.926	3.0	43080.920	2.0
617.5787	16.00	-1.09	64891.632	2.0	81079.420	3.0
617.5821	20.02	-2.25	327962.110	1.0	344149.810	2.0
617.5890	27.00	-3.36	28470.510	1.5	44658.030	1.5
617.5893	28.01	-4.76	121090.710	.5	137278.220	1.5
617.5912	28.00	-3.20	33590.159	4.0	49777.619	3.0
617.6046	7.01	-1.78	210301.680	3.0	226488.790	3.0
617.6168	28.01	-3.36	119889.470	5.5	136076.260	4.5
617.6199	26.02	-4.04	166222.200	4.0	182408.910	3.0
617.6202	15.00	-1.93	64239.500	.5	80426.200	1.5
617.6405	24.00	-4.70	25038.610	5.0	41224.780	4.0
617.6431	28.01	-2.13	105861.190	2.5	122047.290	3.5
617.6565	25.02	.29	176390.670	2.5	192576.420	2.5
617.6657	25.01	-4.75	48333.060	5.0	64518.570	5.0
617.6680	9.00	-2.87	117391.950	.5	133577.400	1.5
617.6807	28.00	-.58	32973.414	4.0	49158.529	5.0
617.6813	25.02	-2.61	176695.060	4.5	192880.160	3.5
617.6859	24.01	-2.72	73436.270	2.5	89621.250	3.5
617.6947	28.01	-3.30	115565.980	2.5	131750.730	3.5
617.6966	24.01	-3.00	38315.000	2.5	54499.700	1.5
617.7134	24.01	-4.57	53923.570	4.5	70107.830	4.5
617.7149	28.01	-3.20	114052.040	3.5	130236.260	2.5
617.7205	17.00	-3.28	84988.480	1.5	101172.553	1.5
617.7236	28.00	-4.24	14728.847	0.0	30912.838	1.0
617.7279	28.01	-2.91	96535.870	3.5	112719.750	3.5
617.7403	26.00	-3.64	35856.386	2.0	52039.939	1.0
617.7496	26.02	-4.92	189011.840	4.0	205195.150	5.0
617.7545	28.00	-2.48	34163.294	2.0	50346.477	2.0
617.7611	23.00	-4.66	8715.720	3.5	24898.730	2.5
617.7954	25.00	-.22	46901.130	2.5	63083.240	1.5
617.7996	17.01	-.75	161634.900	2.0	177816.900	2.0
617.8130	26.01	-6.32	26055.400	2.5	42237.050	3.5
617.8145	24.01	-4.14	35607.600	3.5	51769.210	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
617.8248	21.01	-3.11	11736.350	0.0	27917.690	1.0
617.8267	28.01	-2.66	113321.950	4.5	129503.240	4.5
617.8378	7.01	-4.25	210301.680	3.0	226482.680	3.0
617.8428	24.00	-4.69	31009.000	3.0	47189.670	4.0
617.8493	28.01	-3.92	112686.300	2.5	128867.000	3.5
617.8531	18.01	-3.73	189040.870	1.5	205221.470	1.5
617.8657	28.01	-.81	117872.780	2.5	134053.050	2.5
617.8668	22.00	-1.71	25926.820	4.0	42107.060	4.0
617.8760	63.00	.36	19115.832	0.0	35300.309	0.0
617.8897	23.00	-3.43	9824.580	2.5	26004.220	2.5
617.8897	28.01	-1.75	116732.510	2.5	132912.150	2.5
617.8951	15.00	-2.91	65585.000	2.5	81764.500	1.5
617.8962	24.00	-4.71	31049.330	6.0	47228.800	5.0
617.9050	18.01	-3.72	186074.350	2.5	202253.590	1.5
617.9146	24.01	-1.59	52298.120	3.5	68477.110	4.5
617.9253	24.01	-4.55	35610.500	4.5	51789.210	3.5
617.9382	26.01	-2.72	44915.070	3.5	61093.440	2.5
617.9414	18.00	-3.43	107289.747	2.0	123466.034	1.0
617.9768	26.00	-4.31	42532.729	3.0	58710.090	3.0
617.9820	62.01	-1.83	10082.190	0.0	26263.891	0.0
617.9878	22.00	-4.54	25537.276	1.0	41714.350	2.0
617.9990	28.00	-.87	32982.280	1.0	49159.060	2.0
618.0155	28.00	-4.44	15609.861	2.0	31786.210	3.0
618.0194	7.00	-3.26	96750.810	1.5	112927.055	1.5
618.0211	26.00	-2.64	21999.132	4.0	38175.332	3.0
618.0296	25.01	-4.43	48317.850	4.0	64493.830	4.0
618.0391	23.00	-4.98	553.020	4.5	16728.750	4.5
618.0420	64.01	-.98	13792.436	0.0	29972.566	0.0
618.0668	22.00	-4.18	25643.695	3.0	41818.700	4.0
618.0800	26.02	-.24	185003.350	2.0	201178.010	1.0
618.0838	14.00	-2.99	63489.440	2.0	79664.000	1.0
618.0949	24.00	-4.91	31048.000	7.0	47222.270	6.0
618.1014	27.00	-1.63	32027.500	3.5	48201.600	3.5
618.1050	62.01	-1.51	13389.148	0.0	29567.629	0.0
618.1136	21.00	-4.33	15041.980	3.5	31215.760	2.5
618.1323	24.01	-4.72	54678.950	4.5	70852.240	3.5
618.1511	13.01	0.00	123415.900	2.0	139588.700	3.0
618.1595	25.00	-4.75	38934.940	2.5	55107.520	3.5
618.1690	26.02	.57	183431.280	5.0	199603.610	4.0
618.1797	27.00	-1.35	36092.440	2.5	52264.490	1.5
618.1847	22.00	-2.33	25699.950	2.0	41871.870	2.0
618.1855	23.00	-2.86	8476.200	1.5	24648.100	1.5
618.2050	25.02	-.96	216307.290	4.5	232478.680	4.5
618.2148	10.00	-.99	149657.042	3.0	165828.175	2.0
618.2313	13.01	-1.06	123418.000	3.0	139588.700	3.0
618.2313	13.01	-.08	123418.000	3.0	139588.700	4.0
618.2313	13.01	-.31	123418.000	3.0	139588.700	4.0
618.2340	59.01	-1.25	11534.025	0.0	27709.130	0.0
618.2344	26.02	-3.30	189024.530	5.0	205195.150	5.0
618.2505	29.01	-4.33	130386.400	2.0	146556.600	3.0
618.2615	9.01	-3.22	240092.550	2.0	256262.460	1.0
618.2620	90.00	-1.96	2823.013	0.0	18997.386	0.0
618.2623	24.00	-2.56	33935.650	2.0	50105.540	1.0
618.2627	28.01	-3.92	106620.530	3.5	122790.410	4.5
618.2775	17.00	-3.81	83364.927	.5	99534.419	.5
618.2807	28.01	-4.96	121042.520	1.5	137211.930	.5
618.2826	28.01	-1.20	121042.570	1.5	137211.930	.5
618.2852	9.02	-.89	441385.880	1.5	457555.170	1.5
618.2890	62.01	-1.59	10969.423	0.0	27143.089	0.0
618.2914	28.01	-4.54	118809.340	1.5	134978.470	2.5
618.3002	24.00	-4.96	35862.820	4.0	52031.720	3.0
618.3002	18.01	-1.61	189934.550	.5	206103.450	1.5
618.3098	28.00	-2.60	27943.543	1.0	44112.192	1.0
618.3347	22.00	-4.92	25388.334	4.0	41556.330	5.0
618.3369	24.00	-1.85	36552.130	3.0	52720.070	4.0
618.3377	23.00	-4.04	34486.800	2.5	50654.720	2.5
618.3384	13.01	-2.85	123420.800	4.0	139588.700	3.0
618.3384	13.01	-1.29	123420.800	4.0	139588.700	4.0
618.3384	13.01	-1.43	123420.800	4.0	139588.700	4.0
618.3384	13.01	.24	123420.800	4.0	139588.700	5.0
618.3443	22.00	-4.62	18037.225	4.0	34204.971	4.0
618.3495	7.01	-3.67	187091.370	2.0	203258.980	2.0
618.3510	28.01	-3.80	112686.300	2.5	128853.870	2.5
618.3629	24.01	-3.56	74423.840	3.5	90591.100	2.5
618.3667	24.00	-2.70	33934.880	3.0	50102.040	3.0
618.3755	20.02	-4.01	328090.990	2.0	344257.920	1.0
618.3840	22.00	-3.84	32857.721	3.0	49024.430	3.0
618.3842	28.00	-2.23	33610.916	2.0	49777.619	3.0
618.3910	60.01	-1.75	9275.615	0.0	25446.614	0.0
618.3935	23.00	-2.50	15770.720	4.5	31937.180	5.5
618.3962	24.00	-4.35	33935.650	2.0	50102.040	3.0
618.4008	26.01	-3.02	63273.030	2.5	79439.300	3.5
618.4708	26.01	-4.37	50212.930	2.5	66377.370	3.5
618.4770	90.00	-1.31	12985.861	0.0	29154.611	0.0
618.4933	26.01	-4.17	44929.590	2.5	61093.440	2.5
618.4943	28.00	-2.35	42954.234	2.0	59118.060	2.0
618.4995	25.02	.04	179152.090	3.5	195315.780	2.5
618.5130	72.00	-3.08	0.000	0.0	16167.809	0.0
618.5182	30.02	-1.58	221343.600	2.0	237506.800	1.0
618.5205	28.01	-3.24	116838.330	1.5	133001.470	.5
618.5259	26.02	-2.59	185003.350	2.0	201166.350	3.0
618.5286	28.01	-4.14	119913.330	4.5	136076.260	4.5
618.5339	26.01	-5.72	25805.320	4.5	41968.110	5.5
618.5458	23.00	-4.90	21841.450	2.5	38003.930	1.5
618.5526	13.01	-2.65	134181.200	3.0	150343.500	2.0
618.5526	13.01	-4.07	134181.200	3.0	150343.500	3.0
618.5526	13.01	-2.94	134181.200	4.0	150343.500	3.0
618.5526	13.01	-2.04	134181.200	4.0	150343.500	3.0
618.5526	13.01	-3.94	134181.200	4.0	150343.500	4.0
618.5526	13.01	-4.08	134181.200	4.0	150343.500	4.0
618.5526	13.01	-2.41	134181.200	5.0	150343.500	4.0
618.5603	17.01	-1.01	161654.800	1.0	177816.900	2.0
618.5618	23.02	-1.13	146223.050	3.5	162385.110	3.5
618.5722	25.00	-3.98	34938.700	4.5	51100.490	4.5
618.5749	23.00	-2.89	21603.170	4.5	37764.890	5.5
618.5879	23.00	-2.96	26344.940	4.5	42506.320	4.5
618.5917	20.02	-3.48	346732.190	1.0	362893.470	2.0
618.6013	28.01	-1.20	120166.520	1.5	136327.550	1.5
618.6059	22.00	-2.60	25797.600	3.0	41958.510	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
618.6078	26.02	.24	185003.350	2.0	201164.210	2.0
618.6112	25.01	-4.15	48333.060	5.0	64493.630	4.0
618.6116	28.01	-3.56	114942.420	1.5	131103.180	2.5
618.6131	23.00	-3.77	20828.480	2.5	36989.200	2.5
618.6151	22.00	-1.34	17540.205	3.0	33700.874	4.0
618.6208	23.00	-2.21	26004.220	2.5	42164.740	3.5
618.6441	26.02	-4.73	166252.740	3.0	182412.650	4.0
618.6476	7.00	-3.25	96750.810	1.5	112910.630	2.5
618.6491	25.02	-.22	178386.000	.5	194545.780	.5
618.6512	22.00	-4.85	26564.385	3.0	42724.110	2.0
618.6709	28.00	-1.10	33112.368	3.0	49271.578	3.0
618.6709	28.01	-3.11	105981.500	4.5	122140.710	4.5
618.6744	29.01	.16	120875.850	2.0	137034.970	3.0
618.6802	26.00	-3.11	35611.608	3.0	51770.577	3.0
618.6890	45.00	-1.98	16050.847	0.0	32214.057	0.0
618.7054	23.00	-4.45	20767.570	3.5	36925.880	3.5
618.7112	7.00	-3.27	96787.650	1.5	112945.809	2.5
618.7115	24.00	-.55	41224.780	4.0	57382.930	5.0
618.7134	18.01	-1.73	179931.770	1.5	196089.870	2.5
618.7138	28.01	-4.72	55299.650	4.5	71457.740	3.5
618.7303	26.02	-4.19	166222.200	4.0	182379.860	5.0
618.7404	26.00	-4.32	22838.320	2.0	38995.717	1.0
618.7671	25.02	.66	179152.090	3.5	195308.790	4.5
618.7797	25.02	.09	176209.150	1.5	192365.520	1.5
618.7889	26.00	-4.18	28604.610	2.0	44760.739	1.0
618.7972	26.00	-1.92	31805.059	3.0	47960.973	4.0
618.8000	62.01	-1.92	9356.272	0.0	25516.582	0.0
618.8011	24.01	-4.94	52321.300	4.5	68477.110	4.5
618.8024	22.00	-2.68	29912.262	3.0	46068.040	4.0
618.8090	57.01	-.69	23148.708	0.0	39308.783	0.0
618.8126	23.00	-4.07	34428.760	1.5	50584.270	1.5
618.8130	63.00	.03	13389.148	0.0	29549.119	0.0
618.8161	23.00	-3.13	26021.890	3.5	42177.310	4.5
618.8575	29.01	-.03	120919.410	1.0	137073.750	2.0
618.8632	25.02	-.81	178816.960	2.5	194971.150	2.5
618.8701	17.00	-3.59	85442.430	1.5	101596.440	.5
618.8965	22.00	-4.08	29914.720	3.0	46068.040	4.0
618.8973	25.02	-.35	215911.730	1.5	232065.030	2.5
618.8981	23.00	-1.21	23088.060	1.5	39241.340	2.5
618.8996	27.00	-2.51	13795.520	2.5	29948.760	2.5
618.9016	7.00	-3.29	96750.810	1.5	112904.000	.5
618.9050	29.01	-4.81	130945.000	1.0	147098.100	0.0
618.9218	29.01	-1.26	122745.770	2.0	138898.430	1.0
618.9345	23.00	-1.92	2220.130	2.5	18372.460	3.5
618.9400	40.00	-.46	19196.490	0.0	35353.145	0.0
618.9556	22.00	-4.54	29661.232	1.0	45813.010	2.0
618.9660	22.00	-4.71	27750.124	5.0	43901.630	4.0
618.9673	26.00	-3.50	34547.192	2.0	50698.666	2.0
618.9713	23.01	-4.94	20522.140	1.0	36673.510	2.0
618.9816	17.02	-4.65	188390.100	2.5	204541.200	2.5
618.9870	24.00	-4.12	33906.650	1.0	50057.610	2.0
619.0073	28.01	-3.87	96535.870	3.5	112686.300	2.5
619.0145	17.00	-3.68	85442.430	1.5	101592.670	.5
619.0291	28.01	-4.15	118828.610	2.5	134978.470	2.5
619.0331	14.00	-3.35	48102.323	2.0	64252.080	2.0
619.0494	23.00	-2.73	8578.520	2.5	24727.850	2.5
619.0754	22.00	-4.17	31628.668	5.0	47777.320	5.0
619.0958	25.01	-3.54	55115.800	2.0	71263.920	1.0
619.1004	24.00	-1.44	41224.780	4.0	57372.780	4.0
619.1171	28.00	-4.04	13521.352	2.0	29668.918	3.0
619.1418	26.02	-1.66	183456.690	3.0	199603.610	4.0
619.1430	23.00	-4.60	19078.150	3.5	35225.040	2.5
619.1563	26.00	-1.38	19621.004	5.0	35767.546	4.0
619.1595	26.02	-.66	183457.150	4.0	199603.610	4.0
619.1641	23.01	-4.79	20343.000	2.0	36489.340	1.0
619.1730	39.00	-1.56	0.000	0.0	16150.575	0.0
619.1848	24.00	-4.79	24897.550	4.0	41043.350	3.0
619.1890	90.00	-2.13	6291.287	0.0	22441.445	0.0
619.1959	23.00	-5.90	14548.830	2.5	30694.340	3.5
619.2174	10.01	-.80	302057.260	.5	318202.210	1.5
619.2301	18.01	-2.72	179931.770	1.5	196076.390	1.5
619.2408	10.01	-1.15	302057.260	.5	318201.600	.5
619.2469	28.01	-2.03	116838.330	1.5	132982.510	1.5
619.2554	24.01	-3.91	33694.470	5.5	49838.430	4.5
619.2654	18.02	-3.91	210212.260	3.0	226355.960	2.0
619.2749	29.01	-3.23	118532.150	2.0	134675.600	2.0
619.2960	40.00	-2.07	4355.506	0.0	20502.873	0.0
619.2979	23.00	-4.07	26021.890	3.5	42164.740	3.5
619.2991	23.00	-4.50	21963.500	3.5	38106.320	2.5
619.3106	24.01	-4.70	68583.440	2.5	84725.960	3.5
619.3175	24.00	-2.78	36577.730	4.0	52720.070	4.0
619.3443	22.00	-.98	25227.217	3.0	41368.860	4.0
619.3447	18.01	-3.75	187589.230	2.5	203730.860	1.5
619.3478	28.01	-3.53	116786.420	.5	132927.970	1.5
619.3536	27.00	-1.06	29735.180	3.5	45876.580	2.5
619.3667	14.00	-3.03	48102.323	2.0	64243.380	2.0
619.3674	21.00	-1.92	0.000	1.5	16141.040	2.5
619.3678	21.00	-1.48	17012.980	2.5	33154.010	2.5
619.3860	90.01	-2.12	11050.080	0.0	27195.101	0.0
619.3900	24.01	-4.23	54444.190	3.5	70584.640	2.5
619.4042	25.01	-4.87	54938.100	1.0	71078.180	1.0
619.4102	22.00	-2.46	17540.205	3.0	33680.130	3.0
619.4250	23.00	-1.87	25930.510	1.5	42070.050	2.5
619.4301	7.00	-2.79	96787.650	1.5	112927.055	1.5
619.4390	62.00	-1.39	3064.986	0.0	19206.626	0.0
619.4416	14.00	-2.71	47351.554	2.0	63490.660	3.0
619.4422	28.01	-.21	117763.910	1.5	133903.000	1.5
619.4607	26.02	-.62	183456.690	3.0	199595.300	3.0
619.4756	17.00	-2.94	83130.900	1.5	99269.121	2.5
619.4783	26.02	.45	183457.150	4.0	199595.300	3.0
619.4833	26.01	-4.96	87470.800	4.5	103608.820	4.5
619.4884	14.00	-3.35	47351.554	2.0	63489.440	2.0
619.5070	63.00	-.29	12985.861	0.0	29127.729	0.0
619.5171	24.01	-2.97	38362.560	1.5	54499.700	1.5
619.5236	26.02	-4.78	188955.560	3.0	205092.530	4.0
619.5321	23.00	-4.34	20789.130	2.5	36925.880	3.5
619.5359	28.01	-1.25	116732.510	2.5	132869.160	3.5
619.5432	24.00	-2.83	41224.780	4.0	57361.240	3.0
619.5434	14.00	-2.88	47351.554	2.0	63488.010	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
619.5635	28.01	-4.11	112686.300	2.5	128822.230	1.5
619.5743	24.01	-2.87	73485.600	3.5	89621.250	3.5
619.6039	28.01	-3.75	97273.830	2.5	113408.710	1.5
619.6093	10.01	-.62	302961.070	1.5	319095.810	2.5
619.6146	28.01	-4.70	117074.700	3.5	133209.300	2.5
619.6315	28.01	-4.12	112719.750	3.5	128853.910	4.5
619.6443	14.00	-4.02	48264.292	3.0	64398.120	2.0
619.6449	22.00	-4.54	11531.760	2.0	27665.570	1.0
619.6458	20.02	-1.65	325467.670	2.0	341601.460	2.0
619.6576	28.01	-3.93	103663.500	1.5	119796.980	2.5
619.6576	28.01	-3.51	97273.830	2.5	113407.310	2.5
619.6580	10.01	-4.28	291968.140	.5	308101.610	1.5
619.6622	28.01	-3.88	114942.420	1.5	131075.780	1.5
619.6707	26.01	-5.91	25981.650	3.5	42114.790	4.5
619.6860	25.01	-4.54	92039.800	2.0	108172.540	1.0
619.6949	28.01	-4.03	101740.270	3.5	117872.780	2.5
619.7268	26.02	-4.98	167299.600	5.0	183431.280	5.0
619.7660	42.00	-.40	32504.981	0.0	48640.103	0.0
619.7663	25.01	-3.88	92039.800	2.0	108170.450	2.0
619.7686	9.02	-1.15	441315.800	.5	457446.390	.5
619.7794	23.00	-4.15	20767.570	3.5	36897.880	4.5
619.7821	27.00	-1.41	36329.860	2.5	52460.100	2.5
619.7951	13.01	-2.15	134181.200	4.0	150311.100	3.0
619.7951	13.01	-2.90	134181.200	4.0	150311.100	3.0
619.7951	13.01	-3.95	134181.200	3.0	150311.100	3.0
619.8021	29.01	-.48	120789.630	4.0	136919.350	3.0
619.8240	90.00	-2.56	3629.588	0.0	19763.200	0.0
619.8340	22.00	-3.80	18818.230	0.0	34947.120	1.0
619.8432	21.00	-.85	17025.360	1.5	33154.010	2.5
619.8540	28.01	-3.89	120199.180	1.5	136327.550	1.5
619.8545	26.00	-3.44	35611.608	3.0	51739.964	2.0
619.8617	28.00	-1.11	34408.574	1.0	50536.742	1.0
619.8970	15.00	-3.69	58174.450	1.5	74301.700	2.5
619.9160	22.00	-4.66	25388.334	4.0	41515.090	4.0
619.9178	26.01	-4.41	44915.070	3.5	61041.780	2.5
619.9181	23.00	-1.61	2311.370	3.5	18438.070	4.5
619.9197	18.01	-4.25	186340.480	1.5	202467.140	1.5
619.9285	23.00	-4.98	323.420	3.5	16449.850	2.5
619.9420	44.00	-1.27	16938.079	0.0	33068.620	0.0
619.9489	22.00	-2.44	25926.820	4.0	42052.720	3.0
619.9512	26.00	-4.68	20641.110	4.0	36766.950	3.0
619.9654	29.01	-.96	123016.630	3.0	139142.100	2.0
619.9660	71.01	-.14	29278.680	0.0	45408.597	0.0
619.9805	20.01	-2.96	72722.230	1.5	88847.310	2.5
619.9827	24.01	-4.90	33521.230	3.5	49646.250	3.5
619.9832	20.02	-1.97	346896.260	2.0	363021.270	2.0
619.9843	23.00	-2.74	17181.980	4.5	33306.960	4.5
619.9987	22.00	-4.23	29768.655	2.0	45893.260	3.0
619.9990	45.00	-1.75	16050.847	0.0	32179.905	0.0
620.0100	28.01	-1.85	120166.520	1.5	136290.830	.5
620.0172	28.00	-4.99	26665.903	3.0	42790.027	2.0
620.0269	17.00	-2.32	85735.091	1.5	101858.960	2.5
620.0319	26.00	-2.43	21038.987	2.0	37162.729	3.0
620.0412	28.01	-4.83	100609.010	2.5	116732.510	2.5
620.0412	25.01	-2.98	72648.800	4.0	88772.300	5.0
620.0611	7.00	-3.41	96787.650	1.5	112910.630	2.5
620.0666	23.00	-2.96	8715.720	3.5	24838.560	3.5
620.0754	10.01	-1.92	302057.260	.5	318179.870	1.5
620.0790	59.01	-1.55	10888.765	0.0	27015.742	0.0
620.0797	22.00	-2.73	27025.652	4.0	43148.150	3.0
620.0958	28.01	-1.21	120166.520	1.5	136288.600	2.5
620.1039	23.00	-4.25	15078.250	.5	31200.120	1.5
620.1096	18.01	-4.16	174820.930	.5	190942.650	.5
620.1208	28.01	-4.51	114942.420	1.5	131063.850	.5
620.1209	7.00	-2.70	96787.650	1.5	112909.076	1.5
620.1262	23.00	-4.39	22121.170	4.5	38242.460	3.5
620.1285	22.00	-2.25	18825.890	1.0	34947.120	1.0
620.1289	28.01	-3.45	121090.710	.5	137211.930	.5
620.1366	26.02	.34	183456.690	3.0	199577.710	2.0
620.1431	23.00	-6.12	14514.750	1.5	30635.600	2.5
620.1527	13.01	-.28	123468.100	3.0	139588.700	4.0
620.1527	13.01	-.06	123468.100	3.0	139588.700	4.0
620.1527	13.01	-3.69	123468.100	3.0	139588.700	3.0
620.1966	7.00	-2.32	96750.810	1.5	112870.270	.5
620.1970	22.00	-3.61	25797.600	3.0	41917.050	4.0
620.2027	17.01	-1.14	161634.900	2.0	177754.200	1.0
620.2769	17.00	-3.31	84132.262	2.5	100249.636	2.5
620.3013	18.01	-3.73	186890.950	2.5	203007.690	1.5
620.3043	26.02	-.18	185061.350	1.0	201178.010	1.0
620.3140	28.01	-3.79	121161.810	1.5	137278.220	1.5
620.3151	20.01	-2.81	72730.930	2.5	88847.310	3.5
620.3151	20.01	-4.11	72730.930	2.5	88847.310	2.5
620.3163	7.00	-4.57	96787.650	1.5	112904.000	.5
620.3240	75.00	-2.20	16212.162	0.0	32332.770	0.0
620.3433	22.00	-3.79	17540.205	3.0	33655.853	2.0
620.3501	21.00	-4.30	21032.780	2.5	37148.250	1.5
620.3510	57.01	-1.05	21938.845	0.0	38058.751	0.0
620.3510	74.00	-1.53	19680.435	0.0	35800.341	0.0
620.3574	24.00	-4.78	48636.140	3.0	64751.420	4.0
620.3644	25.02	-.99	216149.320	3.5	232264.420	3.5
620.3839	17.00	-4.09	84132.262	2.5	100246.855	1.5
620.4060	28.01	-3.59	116732.510	2.5	132846.530	3.5
620.4156	29.01	.08	122867.530	1.0	138981.300	2.0
620.4160	25.01	-4.08	48435.960	6.0	64549.720	6.0
620.4190	9.02	-1.54	442278.930	2.5	458392.610	1.5
620.4221	28.02	-4.90	97996.300	3.0	114109.900	3.0
620.4518	23.02	-2.21	146223.050	3.5	162335.880	3.5
620.4600	28.00	-1.77	32973.414	4.0	49086.030	4.0
620.4764	26.01	-4.30	44929.590	2.5	61041.780	2.5
620.4780	24.00	-3.46	33906.650	1.0	50018.800	1.0
620.4938	25.01	-4.20	92060.800	1.0	108172.540	1.0
620.4976	25.02	-2.90	176464.780	3.5	192576.420	2.5
620.5248	22.00	-2.80	11776.806	4.0	27887.740	3.0
620.5396	17.00	-1.64	85735.091	1.5	101845.640	1.5
620.5531	27.00	-1.23	35450.560	3.5	51560.760	2.5
620.5627	23.00	-1.44	26004.220	2.5	42114.170	3.5
620.5685	29.01	-3.93	130386.400	2.0	146496.200	3.0
620.5704	9.01	-3.44	240152.710	1.0	256262.460	1.0
620.5743	25.01	-4.24	92060.800	1.0	108170.450	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
620.6070	21.02	-.76	112254.200	1.5	128363.000	1.5
620.6089	26.02	-.38	185061.350	1.0	201170.100	0.0
620.6297	6.00	-1.34	81769.790	2.0	97878.000	2.0
620.6310	37.00	-1.47	12578.950	0.0	28691.584	0.0
620.6444	18.01	-1.78	191169.520	1.5	207277.350	1.5
620.6609	28.01	-3.83	112719.750	3.5	128827.150	3.5
620.6764	29.01	-3.19	134675.600	2.0	150782.600	2.0
620.6798	20.02	-3.09	370141.770	5.0	386248.680	5.0
620.6821	24.01	-2.97	74484.250	2.5	90591.100	2.5
620.6968	26.02	-4.91	165719.200	4.0	181825.670	4.0
620.7091	23.00	-3.82	21646.390	3.5	37752.540	2.5
620.7176	23.00	-5.20	9824.580	2.5	25930.510	1.5
620.7220	90.00	-2.03	5484.711	0.0	21594.983	0.0
620.7268	23.00	-2.21	2153.200	1.5	18258.690	2.5
620.7307	28.01	-4.30	114970.190	.5	131075.780	1.5
620.7577	28.01	-3.81	115565.980	2.5	131670.870	2.5
620.7600	63.00	-.88	15970.189	0.0	32079.474	0.0
620.7662	28.00	-4.09	42767.900	3.0	58872.570	4.0
620.7781	28.01	-4.08	118874.110	3.5	134978.470	2.5
620.7918	17.00	-1.71	84485.309	1.5	100589.312	2.5
620.8174	24.01	-3.16	38396.360	.5	54499.700	1.5
620.8178	23.00	-2.86	25930.510	1.5	42033.840	1.5
620.8355	29.01	.04	123016.630	3.0	139119.500	3.0
620.8359	26.02	-2.23	185061.350	1.0	201164.210	2.0
620.8370	73.00	-.63	25326.461	0.0	41433.748	0.0
620.8413	15.00	-3.34	65787.380	3.5	81890.100	2.5
620.8459	12.02	-.02	546531.600	1.0	562634.200	1.0
620.8660	28.01	-2.25	113321.950	4.5	129424.030	5.5
620.8891	26.01	-4.90	70314.740	4.5	86416.220	3.5
620.8899	29.01	-2.54	117883.140	4.0	133984.600	3.0
620.8930	28.01	-3.16	118877.090	1.5	134978.470	2.5
620.8937	18.01	-4.69	174409.830	1.5	190511.190	2.5
620.8969	28.01	-3.69	120189.550	.5	136290.830	.5
620.9011	23.02	-3.25	145822.110	1.5	161923.280	2.5
620.9181	24.01	-4.35	35569.020	2.5	51669.750	2.5
620.9250	25.01	-4.26	49465.130	3.0	65565.680	4.0
620.9313	22.00	-3.49	11639.804	3.0	27740.190	2.0
620.9390	14.00	-2.68	48264.292	3.0	64364.480	2.0
620.9424	7.01	-2.01	187437.560	1.0	203537.660	1.0
620.9562	25.02	-3.86	176265.780	1.5	192365.520	1.5
620.9694	17.01	-1.46	161654.800	1.0	177754.200	1.0
620.9709	26.00	-3.52	31937.308	1.0	48036.667	2.0
621.0055	9.00	-4.93	117872.916	1.5	133971.380	1.5
621.0118	28.01	-3.77	117763.910	1.5	133862.210	1.5
621.0118	9.02	-.61	442294.310	1.5	458392.610	1.5
621.0129	23.01	-4.52	30641.710	3.0	46739.980	2.0
621.0365	7.01	-3.07	187091.370	2.0	203189.030	1.0
621.0376	28.01	-2.25	113321.950	4.5	129419.580	4.5
621.0415	18.01	-3.57	174409.830	1.5	190507.360	1.5
621.0438	23.00	-4.64	34486.800	2.5	50584.270	1.5
621.0453	22.00	-3.45	30060.328	4.0	46157.760	5.0
621.0477	24.00	-4.39	31028.330	2.0	47125.700	3.0
621.0485	15.00	-2.73	58174.450	1.5	74271.800	1.5
621.0658	17.01	-3.00	158723.700	1.0	174820.600	2.0
621.0673	21.00	-1.02	0.000	1.5	16096.860	1.5
621.0700	72.00	-.24	24600.544	0.0	40701.789	0.0
621.0778	23.02	-3.03	145143.430	4.5	161240.020	5.5
621.0843	9.00	-2.31	102840.376	.5	118936.797	1.5
621.0871	20.00	-2.68	38192.392	1.0	54288.740	1.0
621.0886	28.01	-4.60	54262.630	3.5	70358.940	4.5
621.1156	25.00	-2.93	45130.160	4.5	61225.770	5.5
621.1202	27.00	-.61	36875.130	1.5	52970.620	2.5
621.1253	22.00	-4.38	29912.262	3.0	46007.620	4.0
621.1287	25.02	-3.33	176270.250	2.5	192365.520	1.5
621.1306	28.01	-2.16	117074.700	3.5	133169.920	3.5
621.1598	17.00	-1.34	83894.037	3.5	99988.501	2.5
621.1603	26.00	-3.38	34328.733	3.0	50423.185	4.0
621.1681	25.02	-3.94	175918.500	.5	192012.750	1.5
621.1847	28.01	-1.96	117763.910	1.5	133857.730	.5
621.1908	28.01	-4.47	114970.190	.5	131063.850	.5
621.1992	26.00	-4.54	35611.608	3.0	51705.052	2.0
621.2087	26.00	-2.97	35257.309	4.0	51350.505	4.0
621.2242	22.00	-.92	25388.334	4.0	41481.130	5.0
621.2254	9.00	-.96	117872.916	1.5	133965.680	2.5
621.2441	23.00	-3.92	26021.890	3.5	42114.170	3.5
621.2501	18.00	-1.51	106237.597	2.0	122329.720	3.0
621.2684	28.01	-4.28	120199.180	1.5	136290.830	.5
621.2742	15.01	-2.95	111508.500	0.0	127600.000	1.0
621.2862	22.00	-2.81	25926.820	4.0	42018.010	5.0
621.3020	25.00	-4.37	34250.520	5.5	50341.300	4.5
621.3050	40.00	-1.93	4355.506	0.0	20450.661	0.0
621.3060	41.00	-1.24	15324.929	0.0	31420.058	0.0
621.3077	55.00	-.84	11732.308	0.0	27827.393	0.0
621.3097	25.02	.58	216670.580	4.5	232761.160	5.5
621.3152	22.00	-2.83	20006.032	2.0	36096.470	3.0
621.3179	26.01	-4.17	64087.500	2.5	80177.870	1.5
621.3263	28.01	-1.25	106022.790	.5	122112.940	.5
621.3435	26.00	-2.75	17927.378	1.0	34017.084	1.0
621.3460	28.01	-4.11	116838.330	1.5	132927.970	1.5
621.3545	28.01	-3.43	120199.180	1.5	136288.600	2.5
621.3874	23.00	-2.39	2424.890	4.5	18513.460	4.5
621.3877	10.00	-1.36	149824.221	2.0	165912.782	1.0
621.3997	20.02	.26	324660.470	3.0	340746.720	2.0
621.4140	24.00	-1.65	38730.670	2.0	54818.550	2.0
621.4187	26.00	-7.34	12968.552	2.0	29056.312	3.0
621.4265	14.00	-2.32	48264.292	3.0	64351.850	3.0
621.4306	25.01	-4.35	92083.000	3.0	108170.450	2.0
621.4399	7.00	-2.29	96750.810	1.5	112838.020	1.5
621.4445	25.02	-2.08	179228.690	1.5	195315.780	2.5
621.4479	22.00	-.99	25107.417	2.0	41194.420	3.0
621.4569	23.00	-7.98	14548.830	2.5	30635.600	2.5
621.4588	22.01	-3.52	16515.790	.5	32602.510	1.5
621.4615	28.01	-4.87	118294.170	3.5	134380.820	3.5
621.4690	40.00	-.23	17663.997	0.0	33754.904	0.0
621.5069	14.00	-1.71	48102.323	2.0	64187.800	3.0
621.5114	23.00	-1.00	26171.960	4.5	42257.320	5.5
621.5118	25.02	-3.27	121197.050	2.5	137282.400	2.5
621.5130	26.00	-1.03	33765.291	2.0	49850.610	3.0
621.5176	27.00	-4.75	28470.510	1.5	44555.710	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
621.5187	22.00	-4.88	28772.860	0.0	44858.630	1.0
621.5210	28.01	-3.21	120203.490	2.5	136288.600	2.5
621.5239	22.00	-.67	21739.713	5.0	37824.748	4.0
621.5370	92.00	-1.91	3710.246	0.0	19799.393	0.0
621.5511	10.01	-2.48	302750.810	3.5	318835.140	2.5
621.5608	28.01	-4.53	121194.140	2.5	137278.220	1.5
621.5639	17.01	-2.38	158768.600	2.0	174852.600	3.0
621.5650	10.01	-1.09	302750.810	3.5	318834.780	3.5
621.5840	28.01	-4.02	112719.750	3.5	128803.230	2.5
621.5894	28.01	-4.54	111783.790	3.5	127867.130	4.5
621.5933	9.01	-3.92	240179.220	0.0	256262.460	1.0
621.5933	18.00	-2.41	107289.747	2.0	123372.987	2.0
621.5948	17.01	-1.14	161671.000	0.0	177754.200	1.0
621.5968	24.00	-3.73	33935.650	2.0	50018.800	1.0
621.6072	18.01	-1.71	191012.350	1.5	207095.230	2.5
621.6078	22.00	-2.71	20126.055	3.0	36208.920	4.0
621.6215	22.00	-4.21	15108.121	3.0	31190.631	2.0
621.6249	17.00	-1.69	85917.937	.5	102000.360	1.5
621.6284	18.01	-4.13	186171.260	.5	202253.590	1.5
621.6340	26.00	-1.85	38175.332	3.0	54257.520	2.0
621.6358	23.00	-1.45	2220.130	2.5	18302.270	3.5
621.6468	22.00	-3.33	29986.185	3.0	46068.040	4.0
621.6494	7.00	-2.26	96864.020	2.5	112945.809	2.5
621.6694	25.00	-4.53	45130.160	4.5	61211.430	4.5
621.6820	72.00	-.36	26052.379	0.0	42137.773	0.0
621.6865	29.01	.65	120684.550	3.0	136765.380	4.0
621.6919	26.02	-3.45	189011.840	4.0	205092.530	4.0
621.6961	28.01	-2.57	117972.470	3.5	134053.050	2.5
621.6981	28.01	-2.81	118897.940	2.5	134978.470	2.5
621.7108	23.01	-7.91	19112.930	4.0	35193.130	5.0
621.7182	18.01	-4.85	186340.480	1.5	202420.490	.5
621.7281	10.00	-1.14	134041.840	2.0	150121.592	1.0
621.7475	28.01	-2.92	99040.750	1.5	115120.000	2.5
621.7595	55.00	-1.79	11732.308	0.0	27815.697	0.0
621.7669	29.01	-4.56	117747.450	3.0	133826.200	2.0
621.7688	28.01	-4.92	118563.390	3.5	134642.090	3.5
621.7719	28.01	-2.26	115592.250	1.5	131670.870	2.5
621.7723	22.00	-4.11	25635.740	1.0	41714.350	2.0
621.7890	42.00	-1.81	18228.600	0.0	34311.226	0.0
621.7943	26.01	-6.11	23031.300	1.5	39109.340	.5
621.7970	75.00	-1.94	17180.052	0.0	33262.471	0.0
621.8028	25.02	-.87	178816.960	2.5	194894.780	1.5
621.6200	57.00	-1.29	9840.217	0.0	25922.041	0.0
621.8211	20.02	-4.20	370172.430	4.0	386249.780	4.0
621.8280	23.00	-.16	23519.840	4.5	39597.010	4.5
621.8636	25.00	-4.03	34938.700	4.5	51014.950	3.5
621.8636	20.02	-2.82	370172.430	4.0	386248.680	5.0
621.8694	7.01	-1.52	187461.560	2.0	203537.660	1.0
621.8748	20.02	-3.27	370172.430	4.0	386248.390	4.0
621.8771	24.00	-4.61	48636.140	3.0	64712.040	3.0
621.8844	22.00	-3.28	19937.859	1.0	36013.570	2.0
621.8930	24.00	-1.60	38911.330	3.0	54986.620	3.0
621.9181	24.00	-1.93	38597.060	1.0	54671.900	1.0
621.9235	17.01	-3.26	161348.400	1.0	177423.100	1.0
621.9286	26.00	-2.62	17726.985	2.0	33801.555	2.0
621.9402	22.00	-2.06	25797.600	3.0	41871.870	2.0
621.9471	28.01	-2.39	113321.950	4.5	129396.040	5.5
621.9498	24.00	-1.16	38730.670	2.0	54804.690	1.0
621.9533	26.01	-5.31	22939.350	2.5	39013.280	1.5
621.9576	28.01	-1.72	116838.330	1.5	132912.150	2.5
621.9642	7.00	-2.64	96750.810	1.5	112824.459	2.5
621.9654	14.00	-4.88	33326.053	2.0	49399.670	1.0
621.9738	29.01	.54	122745.770	2.0	138819.170	3.0
621.9738	28.01	-4.08	120002.860	3.5	136076.260	4.5
621.9762	23.00	-.61	26480.280	3.5	42553.620	4.5
621.9835	28.01	-1.72	117662.110	1.5	133735.260	2.5
621.9889	28.01	-4.09	114869.350	1.5	130942.360	1.5
621.9912	28.01	-4.82	114869.350	1.5	130942.300	1.5
622.0013	22.01	-2.87	16625.250	1.5	32697.940	2.5
622.0211	14.00	-1.83	47284.061	1.0	63356.240	2.0
622.0249	15.00	-1.33	65450.020	1.5	81522.100	2.5
622.0500	22.00	-.81	21588.496	4.0	37659.927	3.0
622.0621	28.01	-3.14	115565.980	2.5	131637.100	3.5
622.0793	26.00	-2.22	31307.235	4.0	47377.909	4.0
622.1201	20.00	-2.08	38219.118	2.0	54288.740	1.0
622.1217	23.00	-2.78	8578.520	2.5	24648.100	1.5
622.1217	27.00	-1.33	36092.440	2.5	52162.020	3.5
622.1225	29.01	-1.33	120684.550	3.0	136754.110	2.0
622.1314	25.02	.52	216691.830	5.5	232761.160	5.5
622.1321	22.00	-.97	21469.494	3.0	37538.804	2.0
622.1345	25.02	-4.99	177687.540	3.5	193756.790	4.5
622.1386	26.00	-2.75	31686.342	2.0	47755.485	3.0
622.1651	10.01	-4.92	292033.150	2.5	308101.610	1.5
622.1676	26.00	-5.99	6928.266	5.0	22996.661	4.0
622.1693	17.00	-1.60	85735.091	1.5	101803.442	2.5
622.1782	10.01	-3.43	292033.150	2.5	308101.270	2.5
622.1829	26.02	-2.72	189024.530	5.0	205092.530	4.0
622.1852	28.01	-5.00	120222.890	1.5	136290.830	.5
622.1870	71.01	-1.11	12340.601	0.0	28412.939	0.0
622.1960	41.00	-1.67	8630.355	0.0	24702.461	0.0
622.2084	28.01	-2.73	99040.750	1.5	115108.090	2.5
622.2100	29.01	-3.35	134675.600	2.0	150742.900	3.0
622.2181	28.01	-3.62	119315.440	2.5	135382.530	1.5
622.2340	27.00	-4.62	14036.280	1.5	30102.960	2.5
622.2444	22.00	-4.51	28791.620	1.0	44858.030	1.0
622.2489	14.00	-2.97	48020.074	1.0	64086.370	1.0
622.2526	17.01	-2.63	158786.400	3.0	174852.600	3.0
622.2590	39.00	-2.18	0.000	0.0	16070.479	0.0
622.2595	23.00	-4.90	19026.340	2.5	35092.360	1.5
622.2603	28.01	-2.82	118314.820	2.5	134380.820	3.5
622.2669	23.00	-2.40	26004.220	2.5	42070.050	2.5
622.2710	18.00	-3.16	108722.668	0.0	124788.390	1.0
622.2758	26.02	-4.09	186268.790	2.0	202334.390	1.0
622.3025	23.00	-3.71	17242.050	5.5	33306.960	4.5
622.3238	17.00	-1.42	84988.480	1.5	101052.840	2.5
622.3351	27.00	-1.44	32654.500	2.5	48718.570	2.5
622.3455	21.02	.20	112299.200	2.5	128363.000	1.5
622.3478	22.00	-3.17	18141.229	5.0	34204.971	4.0
622.3645	24.00	-1.17	38911.330	3.0	54974.640	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	LUP	JUP
622.3660	29.00	-1.33	56056.976	0.0	72124.692	0.0
622.3711	24.01	-2.91	73411.940	1.5	89475.080	2.5
622.3752	7.00	-3.32	96864.020	2.5	112927.055	1.5
622.3924	25.00	-4.56	33825.490	2.5	49888.080	3.5
622.3978	25.01	-3.96	92039.800	2.0	108102.250	3.0
622.3981	28.00	-1.36	33112.368	3.0	49174.811	4.0
622.4153	28.01	-.08	106022.790	.5	122084.790	1.5
622.4153	17.01	-4.50	158723.700	1.0	174765.700	1.0
622.4168	10.01	-1.23	302750.810	3.5	318812.770	3.5
622.4204	26.00	-3.94	38175.332	3.0	54237.200	4.0
622.4254	23.00	-2.60	2112.320	.5	18174.060	1.5
622.4266	7.00	-2.56	96750.810	1.5	112812.518	2.5
622.4319	22.00	-2.45	25926.820	4.0	41988.390	3.0
622.4354	24.00	-4.31	41289.170	1.0	57350.650	2.0
622.4420	10.01	.09	302750.810	3.5	318812.120	4.5
622.4505	23.00	-2.15	2311.370	3.5	18372.460	3.5
622.4530	90.00	-2.57	2823.013	0.0	18886.483	0.0
622.4730	9.02	-1.43	441385.880	1.5	457446.390	.5
622.4781	9.02	-2.18	441315.800	.5	457376.180	.5
622.4854	23.01	-2.65	20980.920	2.0	37041.110	2.0
622.4889	18.00	-3.53	108722.668	0.0	124782.770	1.0
622.4901	24.00	-2.77	31028.330	2.0	47088.400	1.0
622.4928	15.00	-1.57	64239.500	.5	80299.500	1.5
622.4947	23.00	-2.79	26344.940	4.5	42404.890	3.5
622.4994	24.01	-3.99	50667.330	3.5	66727.160	2.5
622.5037	22.00	-4.92	20006.032	2.0	36065.750	3.0
622.5200	44.00	-1.96	11372.710	0.0	27436.451	0.0
622.5269	25.00	-4.43	35041.370	3.5	51100.490	4.5
622.5357	9.00	-1.07	117872.916	1.5	133931.810	2.5
622.5386	20.02	-.79	328090.990	2.0	344149.810	2.0
622.5424	24.01	-4.68	31168.780	3.5	47227.500	3.5
622.5478	26.00	-3.89	40534.180	3.0	56592.760	4.0
622.5533	26.02	-2.35	189679.070	3.0	205737.510	2.0
622.5641	27.00	-2.20	27497.060	2.5	43555.220	3.5
622.5878	28.01	-1.76	120903.200	3.5	136960.750	2.5
622.5889	22.00	-4.95	25699.950	2.0	41757.470	3.0
622.5940	28.01	-4.57	116167.760	1.5	132225.150	1.5
622.5956	22.00	-1.59	32857.721	3.0	48915.070	2.0
622.5956	20.02	-2.41	344149.810	2.0	360207.160	2.0
622.6052	28.01	.01	117872.780	2.5	133929.880	3.5
622.6128	17.00	-3.24	84988.480	1.5	101045.386	1.5
622.6130	13.01	.05	105424.300	0.0	121481.200	1.0
622.6186	7.00	-3.62	96750.810	1.5	112807.567	.5
622.6275	26.00	-4.55	29371.860	3.0	45426.385	4.0
622.6300	23.01	-2.92	20617.050	2.0	36673.510	2.0
622.6428	17.00	-1.94	84648.100	2.5	100704.230	1.5
622.6500	60.00	-1.20	2339.068	0.0	18399.455	0.0
622.6665	24.01	-3.15	38362.560	1.5	54418.080	.5
622.6679	22.00	-4.30	26803.417	2.0	42858.900	3.0
622.6700	62.00	-1.50	2258.411	0.0	18316.282	0.0
622.6748	26.00	-2.09	31322.603	3.0	47377.909	4.0
622.6762	28.01	-2.88	118923.200	3.5	134978.470	2.5
622.6762	23.00	-1.27	26122.040	3.5	42177.310	4.5
622.7060	17.01	-2.05	112608.000	1.0	128662.500	2.0
622.7072	28.01	-4.49	115565.980	2.5	131620.450	1.5
622.7142	10.01	-2.43	302750.810	3.5	318805.100	2.5
622.7526	26.02	-1.32	189679.070	3.0	205732.370	3.0
622.7700	76.00	.40	32504.981	0.0	48562.273	0.0
622.7770	23.00	-4.62	15264.830	5.5	31317.500	4.5
622.7914	23.00	-2.50	26352.590	2.5	42404.890	3.5
622.7959	5.00	-2.56	48611.817	.5	64664.000	1.5
622.8140	71.01	-.81	29278.680	0.0	45334.838	0.0
622.8263	8.01	-2.67	232462.830	2.5	248514.230	1.5
622.8290	25.01	-4.88	85447.700	5.0	101499.030	4.0
622.8444	17.00	-2.07	84968.480	1.5	101039.413	.5
622.8605	23.01	-3.28	20622.990	3.0	36673.510	2.0
622.8651	5.00	-2.30	48613.600	1.5	64664.000	2.5
622.8651	5.00	-3.26	48613.600	1.5	64664.000	1.5
622.8663	7.00	-3.12	96787.650	1.5	112838.020	1.5
622.8721	7.00	-2.59	96750.810	1.5	112801.031	1.5
622.8760	28.01	-3.80	121161.810	1.5	137211.930	.5
622.9118	22.00	-3.86	15156.787	4.0	31205.985	3.0
622.9140	24.00	-3.41	38597.060	1.0	54646.200	0.0
622.9190	17.00	-2.33	84688.637	.5	100737.650	.5
622.9231	26.00	-2.99	22946.810	1.0	38995.717	1.0
622.9284	24.00	-1.23	39158.630	4.0	55207.400	4.0
622.9338	26.01	-4.82	22810.330	3.5	38858.960	2.5
622.9420	75.00	-.45	28714.077	0.0	44766.936	0.0
622.9478	26.01	-4.63	48039.230	2.5	64087.500	2.5
622.9521	23.00	-4.99	26021.890	3.5	42070.050	2.5
622.9544	25.01	-4.79	49517.580	5.0	65565.680	4.0
622.9747	26.00	-4.03	37521.144	2.0	53568.720	2.0
622.9948	7.00	-2.44	96864.020	2.5	112911.079	3.5
623.0006	26.02	-3.88	188955.560	3.0	205002.470	3.0
623.0090	28.00	-2.45	33112.368	3.0	49159.060	2.0
623.0122	7.00	-2.39	96864.020	2.5	112910.630	2.5
623.0130	20.02	-1.08	343110.240	0.0	359156.830	1.0
623.0136	9.00	-1.82	117872.916	1.5	133919.490	1.5
623.0394	24.00	-3.43	31009.000	3.0	47054.910	4.0
623.0464	28.01	-4.75	112686.300	2.5	128732.030	1.5
623.0464	23.00	-.35	23353.090	3.5	39396.820	3.5
623.0510	63.00	-.93	15566.901	0.0	31616.951	0.0
623.0592	14.00	-2.86	63618.600	0.0	79664.000	1.0
623.0725	7.00	-4.87	96864.020	2.5	112909.076	1.5
623.0728	26.00	-1.25	20641.110	4.0	36686.159	4.0
623.0794	23.00	-1.48	2153.200	1.5	18198.080	2.5
623.0927	18.00	-3.07	106237.597	2.0	122262.134	2.0
623.0998	22.00	-4.52	29768.655	2.0	45813.010	2.0
623.1000	27.00	-2.59	14399.280	.5	30443.630	1.5
623.1037	28.00	-4.76	42585.296	4.0	58629.550	3.0
623.1144	28.01	-4.40	118563.390	3.5	134607.370	4.5
623.1194	25.02	.74	176945.200	4.5	192989.050	5.5
623.1330	29.01	-1.60	120875.850	2.0	136919.350	3.0
623.1373	22.01	-4.14	15257.530	4.5	31300.920	4.5
623.1443	21.00	-2.86	17012.980	2.5	33056.190	3.5
623.1478	23.00	-2.98	21032.520	3.5	37075.640	4.5
623.1532	17.00	-2.44	83364.927	.5	99407.907	.5
623.1594	24.00	-4.73	32097.360	6.0	48140.180	7.0
623.1602	13.01	-.08	105438.400	1.0	121461.200	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
623.1641	23.00	-1.50	26122.040	3.5	42164.740	3.5
623.1718	13.01	.40	105438.400	1.0	121480.900	2.0
623.1734	21.00	-4.51	168.340	2.5	16210.800	3.5
623.1928	9.02	-1.87	442294.310	1.5	458336.270	.5
623.2010	26.01	-4.96	44915.070	3.5	60956.820	3.5
623.2163	22.00	-3.69	18037.225	4.0	34078.580	3.0
623.2223	29.01	-4.24	130386.400	2.0	146427.600	1.0
623.2313	15.01	-1.42	87125.400	2.0	103166.370	1.0
623.2383	27.00	-.59	36875.130	1.5	52915.920	.5
623.2437	27.00	-1.55	27497.060	2.5	43537.710	1.5
623.2450	58.01	-1.44	9678.902	0.0	25723.957	0.0
623.2650	26.00	-1.57	29469.010	2.0	45509.112	1.0
623.2729	30.02	-3.25	283968.800	0.0	300008.700	1.0
623.2865	24.00	-3.74	31048.850	1.0	47088.400	1.0
623.2884	18.01	-1.54	190592.170	1.5	206631.670	2.5
623.2892	24.00	-4.16	31009.000	3.0	47048.480	3.0
623.2980	90.01	-2.63	9356.272	0.0	25399.962	0.0
623.3012	23.00	-.64	23088.060	1.5	39127.230	1.5
623.3152	24.01	-3.99	73436.270	2.5	89475.080	2.5
623.3156	17.01	-1.24	161654.800	1.0	177693.600	0.0
623.3172	23.00	-2.14	2220.130	2.5	18258.890	2.5
623.3188	17.00	-4.02	84132.262	2.5	100170.980	1.5
623.3300	28.01	-3.52	120250.170	3.5	136288.600	2.5
623.3319	23.00	-3.29	17116.920	3.5	33155.300	4.5
623.3356	28.00	-2.84	42954.234	2.0	58992.520	2.0
623.3467	27.02	-3.23	155702.400	1.5	171740.400	1.5
623.3467	27.02	-3.23	155702.400	1.5	171740.400	1.5
623.3510	57.00	-1.19	7420.492	0.0	23462.818	0.0
623.3521	26.01	-3.85	44232.510	4.5	60270.370	3.5
623.3672	9.00	-2.59	117872.916	1.5	133910.390	.5
623.3730	63.00	-.10	15970.189	0.0	32011.949	0.0
623.3828	2.01	-.92	421353.130	0.0	437394.638	0.0
623.3874	26.00	-3.63	35257.309	4.0	51294.262	3.0
623.3922	29.01	-2.70	128778.100	4.0	144814.930	3.0
623.3929	7.00	-2.27	96787.650	1.5	112824.459	2.5
623.4057	10.01	.10	312810.670	4.5	328847.150	3.5
623.4096	10.01	-.39	312810.670	4.5	328847.050	4.5
623.4112	10.01	.49	312810.710	5.5	328847.050	4.5
623.4116	28.01	-2.68	98822.550	6.5	114858.880	5.5
623.4151	28.01	-4.49	100475.820	3.5	116512.060	3.5
623.4291	6.00	-4.87	72610.720	2.0	88646.600	1.0
623.4300	92.00	-1.85	4194.191	0.0	20234.484	0.0
623.4338	23.00	-4.73	19189.280	1.5	35225.040	2.5
623.4353	22.00	-3.30	18911.399	2.0	34947.120	1.0
623.4439	10.01	-.42	312811.650	3.5	328847.150	3.5
623.4439	10.01	.10	312811.650	4.5	328847.150	3.5
623.4477	10.01	-1.83	312811.650	3.5	328847.050	4.5
623.4477	10.01	-.86	312811.650	4.5	328847.050	4.5
623.4509	22.01	-5.84	15265.600	3.5	31300.920	4.5
623.4656	18.01	-1.54	192556.840	2.5	208591.780	1.5
623.4850	90.00	-1.84	6291.287	0.0	22330.165	0.0
623.4860	57.00	-.99	9114.300	0.0	25153.153	0.0
623.5127	23.00	-3.69	20789.130	2.5	36822.860	3.5
623.5147	28.01	-3.36	116191.470	2.5	132225.150	1.5
623.5360	71.01	-.09	32343.666	0.0	48381.232	0.0
623.5442	28.01	-4.51	99559.330	2.5	115592.250	1.5
623.5745	25.02	-.29	178816.960	2.5	194849.100	1.5
623.6068	28.01	-3.43	120044.950	4.5	136076.260	4.5
623.6072	28.01	-3.49	114869.350	1.5	130900.650	2.5
623.6201	14.00	-2.53	48264.292	3.0	64295.260	3.0
623.6228	29.01	-1.05	122867.530	1.0	138898.430	1.0
623.6274	23.00	-.52	23210.560	2.5	39241.340	2.5
623.6485	28.01	-.31	105668.780	2.5	121699.020	1.5
623.6492	28.01	-.56	117872.780	2.5	133903.000	1.5
623.6660	29.01	-4.37	128853.300	2.0	144883.090	2.0
623.6726	23.00	-3.65	26004.220	2.5	42033.840	1.5
623.6740	57.00	-1.62	7178.519	0.0	23212.537	0.0
623.6765	22.00	-4.62	28828.510	2.0	44858.030	1.0
623.6823	21.00	-3.43	29096.200	3.5	45125.570	4.5
623.6850	29.01	-3.64	130386.400	2.0	146415.700	2.0
623.7034	22.00	-3.79	30039.211	5.0	46068.040	4.0
623.7259	24.01	-3.97	74484.250	2.5	90512.500	1.5
623.7278	28.01	-2.52	115592.250	1.5	131620.450	1.5
623.7320	14.00	-.53	45276.188	1.0	61304.283	2.0
623.7570	25.01	-3.63	53017.160	1.0	69044.610	2.0
623.7643	17.00	-1.48	85917.937	.5	101945.200	.5
623.7643	17.00	-1.28	85917.937	.5	101945.200	1.5
623.7656	26.01	-4.00	44929.590	2.5	60956.820	3.5
623.7660	7.00	-1.49	96864.020	2.5	112891.238	3.5
623.7660	62.01	-1.48	11937.313	0.0	27968.966	0.0
623.7699	24.01	-4.60	33619.130	4.5	49646.250	3.5
623.7909	26.01	-2.51	83305.370	3.5	99331.950	4.5
623.8103	6.00	-3.80	72610.720	2.0	88636.800	2.0
623.8119	23.00	-1.90	26480.280	3.5	42506.320	4.5
623.8263	23.00	-1.59	20789.130	2.5	36814.800	1.5
623.8285	14.00	-2.34	40991.884	1.0	57017.496	2.0
623.8388	26.01	-2.80	31364.470	1.5	47389.820	1.5
623.8500	60.01	-1.95	8307.725	0.0	24337.219	0.0
623.8575	7.00	-1.96	96787.650	1.5	112812.518	2.5
623.8580	72.00	-3.06	2339.068	0.0	18368.357	0.0
623.8590	57.00	-1.42	7581.807	0.0	23611.070	0.0
623.8626	26.00	-4.44	37521.144	2.0	53545.882	3.0
623.8656	25.02	.43	176641.140	3.5	192665.800	4.5
623.8925	10.01	-1.33	303071.840	2.5	319095.810	2.5
623.9038	10.01	-.03	303071.840	2.5	319095.520	3.5
623.9361	26.01	-4.54	22637.190	4.5	38660.040	3.5
623.9412	21.00	-3.66	0.000	1.5	16022.720	2.5
623.9564	9.02	-.66	442370.280	.5	458392.610	1.5
623.9564	10.01	-2.06	312824.820	3.5	328847.150	3.5
623.9571	10.01	-1.71	312824.840	2.5	328847.150	3.5
623.9602	10.01	-1.67	312824.820	3.5	328847.050	4.5
623.9614	14.01	-1.36	103556.290	3.5	119578.490	3.5
623.9614	14.01	.19	103556.290	3.5	119578.490	4.5
623.9648	9.00	-.23	102405.710	2.5	118427.823	1.5
623.9665	14.01	.08	103556.420	2.5	119578.490	3.5
623.9708	18.01	-2.36	143371.350	1.5	159393.310	1.5
623.9778	21.00	-3.33	0.000	1.5	16021.780	1.5
623.9801	24.01	-3.16	38396.360	.5	54418.080	.5
623.9912	22.00	-3.70	29986.185	3.0	46007.620	4.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
623.9937	26.01	-3.61	31368.450	.5	47389.820	1.5
623.9999	22.00	-4.75	19937.859	1.0	35959.070	1.0
624.0042	22.00	-4.27	25797.600	3.0	41818.700	4.0
624.0136	23.00	-2.25	2153.200	1.5	18174.060	1.5
624.0314	26.00	-1.85	33412.706	3.0	49433.108	2.0
624.0413	24.00	-3.45	31028.330	2.0	47048.480	3.0
624.0504	7.00	-3.93	96787.650	1.5	112807.567	.5
624.0553	28.01	-3.97	120268.810	3.5	136288.600	2.5
624.0649	26.00	-3.95	17927.378	1.0	33946.920	2.0
624.0658	23.00	-5.39	553.020	4.5	16572.540	3.5
624.0763	25.01	-3.35	92083.000	3.0	108102.250	3.0
624.0806	24.00	-4.80	31028.330	2.0	47047.470	2.0
624.0845	25.02	-2.33	176970.010	5.5	192989.050	5.5
624.0923	25.01	-3.27	55371.300	3.0	71390.140	3.0
624.1188	10.01	-4.43	302816.980	1.5	318835.140	2.5
624.1355	17.00	-2.15	85442.430	1.5	101460.160	1.5
624.1398	26.02	-4.68	182830.760	6.0	198848.380	7.0
624.1420	17.00	-1.72	84485.309	1.5	100502.871	1.5
624.1527	23.01	-4.18	30673.140	2.0	46690.430	1.0
624.1600	17.01	-4.49	158768.600	2.0	174785.700	1.0
624.1700	76.00	-2.63	13308.491	0.0	29329.767	0.0
624.1784	28.01	-4.72	120271.970	2.5	136288.600	2.5
624.1800	22.01	-6.76	16515.790	.5	32532.380	.5
624.2188	17.00	-3.09	84688.637	.5	100704.230	1.5
624.2209	7.01	-1.13	210705.260	2.0	226720.800	2.0
624.2271	25.00	-4.06	34343.900	4.5	50359.280	3.5
624.2340	71.01	.04	30730.515	0.0	46750.149	0.0
624.2411	7.01	-.10	189335.160	3.0	205350.180	2.0
624.2591	17.00	-.87	84132.262	2.5	100146.822	3.5
624.2700	6.00	-3.83	72610.720	2.0	88625.000	3.0
624.2727	24.00	-2.47	36577.730	4.0	52591.940	5.0
624.2829	23.00	-1.67	2112.320	.5	18126.270	1.5
624.2848	17.01	-2.61	112608.000	1.0	128621.900	1.0
624.2864	26.02	-4.01	186268.790	2.0	202282.650	2.0
624.3004	13.01	-1.25	105467.700	2.0	121481.200	1.0
624.3050	7.00	-2.91	96787.650	1.5	112801.031	1.5
624.3066	7.01	-2.03	210705.260	2.0	226718.600	1.0
624.3121	13.01	-.08	105467.700	2.0	121480.900	2.0
624.3125	18.01	-1.24	142717.020	3.5	158730.210	2.5
624.3129	23.00	-.96	2424.890	4.5	18438.070	4.5
624.3240	75.00	-.38	28714.077	0.0	44731.401	0.0
624.3265	10.01	-1.41	302829.060	4.5	318841.890	4.5
624.3273	24.01	-4.36	68305.730	1.5	84318.540	1.5
624.3281	10.01	-2.97	302829.060	4.5	318841.850	3.5
624.3324	23.01	-5.88	23391.090	5.0	39403.770	4.0
624.3355	13.01	.67	105467.700	2.0	121480.300	3.0
624.3395	18.00	-2.93	107496.463	1.0	123508.960	0.0
624.3487	28.01	.49	103653.030	3.5	119665.290	2.5
624.3538	23.00	-2.55	8715.720	3.5	24727.850	2.5
624.3772	28.01	-.39	120316.020	.5	136327.550	1.5
624.3815	14.00	-.77	45293.629	2.0	61305.050	3.0
624.3901	28.01	-3.97	115785.060	1.5	131796.260	2.5
624.3901	11.02	-4.98	444748.100	1.5	460759.300	.5
624.3967	23.00	-3.41	26352.590	2.5	42363.620	3.5
624.4018	12.02	-.14	548720.700	1.0	564731.600	1.0
624.4088	10.01	-2.02	302831.170	3.5	318841.890	4.5
624.4104	10.01	-1.45	302831.170	3.5	318841.850	3.5
624.4114	14.00	-1.67	45293.629	2.0	61304.283	2.0
624.4210	62.01	-1.95	8630.355	0.0	24645.191	0.0
624.4340	59.01	-1.59	9598.245	0.0	25612.748	0.0
624.4466	14.00	-.69	45293.629	2.0	61303.381	3.0
624.4482	21.00	-4.70	0.000	1.5	16009.710	.5
624.4513	27.00	-3.51	28470.510	1.5	44480.140	2.5
624.4558	7.00	-2.58	96750.810	1.5	112760.325	2.5
624.4698	7.00	-3.53	96750.810	1.5	112759.966	1.5
624.4731	18.00	-1.52	107496.463	1.0	123505.536	2.0
624.4840	28.00	-4.64	42621.048	3.0	58629.840	2.0
624.4953	28.00	-3.25	42621.048	3.0	58629.550	3.0
624.5145	24.01	-4.82	31219.490	4.5	47227.500	3.5
624.5219	28.01	-3.61	115827.120	3.5	131834.940	2.5
624.5227	23.00	-2.45	2112.320	.5	18120.120	.5
624.5258	15.00	-2.52	65787.380	3.5	81795.100	3.5
624.5329	22.00	-3.72	20006.032	2.0	36013.570	2.0
624.5383	10.01	0.00	312810.670	4.5	328816.070	3.5
624.5660	21.01	-.93	12154.340	2.0	28161.030	3.0
624.5676	28.01	-4.01	99559.330	2.5	115565.980	2.5
624.5720	26.00	-3.72	34692.130	1.0	50698.666	2.0
624.5765	10.01	-.96	312811.650	3.5	328818.070	3.5
624.5765	10.01	.12	312811.650	4.5	328818.070	3.5
624.5773	10.01	.24	312811.650	3.5	328818.050	2.5
624.5869	22.00	-4.67	20126.055	3.0	36132.210	4.0
624.5937	24.00	-4.64	31049.330	6.0	47055.310	5.0
624.6183	23.00	-2.00	26171.960	4.5	42177.310	4.5
624.6329	26.00	-1.10	29056.312	3.0	45061.287	3.0
624.6374	27.00	-1.23	28777.270	3.5	44782.130	4.5
624.6445	25.00	-1.10	46901.130	2.5	62905.810	2.5
624.6464	14.01	-2.93	97972.350	.5	113976.980	1.5
624.6530	92.00	-1.67	5726.684	0.0	21735.572	0.0
624.6597	6.00	-2.11	72610.720	2.0	88615.010	1.0
624.6728	10.00	-1.66	149824.221	2.0	165828.175	2.0
624.6760	62.01	-1.73	8469.040	0.0	24477.339	0.0
624.6886	27.00	-3.80	16778.160	2.5	32781.710	2.5
624.6970	70.01	-.70	33311.556	0.0	49319.317	0.0
624.7014	28.01	.39	103653.030	3.5	119656.250	3.5
624.7088	26.00	-3.93	35767.546	4.0	51770.577	3.0
624.7139	25.02	.11	216062.130	2.5	232065.030	2.5
624.7150	28.00	-3.55	42585.296	4.0	58588.168	3.0
624.7178	13.01	-2.81	132819.700	3.0	148822.500	2.0
624.7178	13.01	-1.63	132819.700	3.0	148822.500	3.0
624.7178	13.01	-.20	132819.700	3.0	148822.500	4.0
624.7257	13.01	-1.27	132819.900	2.0	148822.500	2.0
624.7257	13.01	-.53	132819.900	1.0	148822.500	2.0
624.7257	13.01	-.73	132819.900	2.0	148822.500	3.0
624.7272	27.00	-.92	36092.440	2.5	52095.000	3.5
624.7397	26.01	-2.23	50076.100	1.5	66076.340	2.5
624.7553	26.01	-2.50	31387.980	2.5	47389.820	1.5
624.7565	23.00	-1.89	20812.990	1.5	36814.800	1.5
624.7596	26.01	-4.21	48039.230	2.5	64040.960	3.5
624.7635	23.01	-7.65	19191.500	6.0	35193.130	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
624.7674	25.02	.42	176390.670	2.5	192392.200	3.5
624.7910	9.00	-2.19	117622.923	2.5	133623.850	1.5
624.8041	26.01	-8.71	27620.390	2.5	43620.980	1.5
624.8166	24.01	-2.81	54678.950	4.5	70679.220	4.5
624.8311	29.01	-2.62	134743.000	4.0	150742.900	3.0
624.8401	18.00	-2.90	106087.305	1.0	122086.974	2.0
624.8443	24.00	-4.75	31055.350	5.0	47054.910	4.0
624.8471	10.01	-2.86	302829.060	4.5	318828.550	3.5
624.8624	13.01	-.61	133914.100	2.0	149913.200	3.0
624.8800	71.00	-1.36	21051.613	0.0	37054.686	0.0
624.8811	24.00	-4.29	31048.850	1.0	47047.470	2.0
624.8900	26.01	-4.87	44446.890	3.5	60445.280	2.5
624.8908	7.01	-1.55	170572.610	2.0	186570.980	3.0
624.8912	10.01	-1.10	302843.530	3.5	318841.890	4.5
624.8927	10.01	-2.78	302843.530	3.5	318841.850	3.5
624.8950	72.01	-1.92	12017.970	0.0	28020.658	0.0
624.8960	14.00	-3.77	48020.074	1.0	64018.310	1.0
624.9064	28.01	-4.30	120203.490	2.5	136201.460	3.5
624.9130	26.00	-3.00	37162.729	3.0	53160.530	3.0
624.9154	10.01	-1.05	302844.110	2.5	318841.850	3.5
624.9244	23.00	-2.54	15724.220	3.5	31721.730	4.5
624.9287	25.00	-4.28	34343.900	4.5	50341.300	4.5
624.9295	10.01	-2.52	302831.170	3.5	318828.550	2.5
624.9295	10.01	-1.53	302831.170	3.5	318828.550	3.5
624.9299	26.02	-4.64	166421.330	4.0	182418.700	4.0
624.9361	20.02	-2.98	346896.260	2.0	362893.470	2.0
624.9455	28.01	-3.59	116732.510	2.5	132729.480	2.5
624.9471	25.02	-3.98	175918.500	.5	191915.430	.5
624.9510	27.00	-2.90	16467.900	4.5	32464.730	4.5
624.9592	10.00	-2.71	152970.733	0.0	168967.353	1.0
624.9647	26.00	-4.28	27166.804	4.0	43163.282	4.0
624.9705	26.02	-3.07	182852.050	7.0	198848.380	7.0
624.9790	73.00	-2.00	12743.888	0.0	28744.426	0.0
624.9885	9.02	-2.79	425390.010	.5	441385.880	1.5
624.9889	10.01	-1.02	302839.280	2.5	318835.140	2.5
624.9893	24.00	-.41	41393.470	5.0	57389.320	6.0
624.9897	23.00	-2.07	20767.570	3.5	36763.410	2.5
624.9930	57.00	-.27	4032.876	0.0	20033.055	0.0
624.9951	21.00	-.27	18571.400	2.5	34567.100	3.5
625.0029	10.01	-.06	302839.280	2.5	318834.780	3.5
625.0307	29.01	-1.78	121078.960	3.0	137073.750	2.0
625.0470	63.00	-.73	12824.546	0.0	28823.343	0.0
625.0604	6.00	-2.76	72610.720	2.0	88604.750	2.0
625.0694	11.02	-3.34	399179.400	2.5	415173.200	1.5
625.0811	21.00	-3.29	29022.870	2.5	45016.370	3.5
625.0842	24.00	-4.11	31028.330	2.0	47021.750	1.0
625.0909	10.01	-1.53	302192.920	4.5	318186.170	4.5
625.0909	10.01	-.35	312824.820	3.5	328818.070	3.5
625.0917	10.01	-1.12	312824.820	3.5	328818.050	2.5
625.0917	10.01	-1.72	312824.840	2.5	328818.070	3.5
625.0921	10.01	.20	302192.920	4.5	318186.140	5.5
625.0924	10.01	-.44	312824.840	2.5	328818.050	2.5
625.0975	23.00	-3.86	21032.520	3.5	37025.600	3.5
625.1030	26.02	-2.05	189679.070	3.0	205672.010	4.0
625.1092	23.00	-1.29	26171.960	4.5	42164.740	3.5
625.1187	26.00	-3.93	35611.608	3.0	51604.146	3.0
625.1241	26.00	-3.35	37162.729	3.0	53155.130	4.0
625.1347	23.00	-2.16	26122.040	3.5	42114.170	3.5
625.1601	29.01	-4.72	130945.000	1.0	146936.480	2.0
625.1663	26.02	-3.57	166421.330	4.0	182412.650	4.0
625.1760	41.00	-.74	18228.600	0.0	34224.096	0.0
625.1827	23.00	-1.32	2311.370	3.5	18302.270	3.5
625.1933	26.02	-3.11	189011.840	4.0	205002.470	3.0
625.1933	26.02	-3.34	182830.760	6.0	198821.390	6.0
625.1984	11.02	-2.76	399182.700	1.5	415173.200	1.5
625.2062	9.02	-2.25	441385.880	1.5	457376.180	.5
625.2071	17.00	-2.48	85735.091	1.5	101725.370	1.5
625.2089	22.00	-3.34	25926.820	4.0	41917.050	4.0
625.2184	14.01	-3.23	97972.350	.5	113962.340	.5
625.2280	17.00	-1.87	83364.927	.5	99354.670	1.5
625.2383	24.01	-2.79	73485.600	3.5	89475.080	2.5
625.2390	24.00	-1.61	41393.470	5.0	57382.930	5.0
625.2402	28.01	-1.79	117872.780	2.5	133862.210	1.5
625.2561	26.00	-1.43	19390.165	6.0	35379.189	5.0
625.2690	22.00	-1.51	31205.985	3.0	47194.680	4.0
625.2914	10.01	-.29	302816.980	1.5	318805.100	2.5
625.3044	14.00	-4.68	48264.292	3.0	64252.080	2.0
625.3079	26.02	-3.24	188955.560	3.0	204943.260	2.0
625.3165	24.00	-2.30	33040.100	2.0	49027.580	2.0
625.3165	25.02	-.49	178558.300	1.5	194545.780	.5
625.3169	24.00	-3.80	31987.060	4.0	47974.530	3.0
625.3176	26.00	-3.64	42532.729	3.0	58520.180	4.0
625.3243	10.01	-1.16	302816.980	1.5	318804.260	1.5
625.3257	26.00	-3.32	34547.192	2.0	50534.435	3.0
625.3396	28.01	-1.74	106283.160	2.5	122270.050	3.5
625.3598	14.00	-3.70	40991.884	1.0	56978.256	1.0
625.3684	7.00	-2.93	96750.810	1.5	112736.961	1.5
625.3720	45.00	-1.70	15889.531	0.0	31880.013	0.0
625.3749	22.00	-4.02	29907.273	2.0	45893.260	3.0
625.3751	24.00	-1.56	46704.980	5.0	62690.960	5.0
625.3802	26.00	-2.14	38175.332	3.0	54161.182	3.0
625.3939	27.00	-1.84	32733.070	3.5	48718.570	2.5
625.4127	10.01	-2.96	302843.530	3.5	318828.550	2.5
625.4127	10.01	-2.03	302843.530	3.5	318828.550	3.5
625.4174	24.00	-1.84	46677.060	2.0	62661.960	3.0
625.4188	14.00	-.60	45321.848	3.0	61306.713	4.0
625.4220	92.01	-2.48	6371.944	0.0	22361.148	0.0
625.4263	26.00	-2.72	18378.187	2.0	34362.860	1.0
625.4290	74.00	.07	33150.241	0.0	49139.266	0.0
625.4291	23.00	-2.68	20830.200	.5	36814.800	1.5
625.4354	10.01	-1.40	302844.110	2.5	318828.550	2.5
625.4354	10.01	-.77	302844.110	2.5	318828.550	3.5
625.4417	28.01	-4.78	119656.250	3.5	135640.530	4.5
625.4508	14.00	-2.49	48102.323	2.0	64086.370	1.0
625.4526	27.00	-2.68	28470.510	1.5	44454.510	.5
625.4615	17.00	-3.94	85442.430	1.5	101426.204	2.5
625.4688	9.00	-.73	117622.923	2.5	133606.510	3.5
625.4767	26.00	-9.62	7728.058	3.0	23711.443	4.0
625.4800	17.00	-2.05	85244.330	.5	101227.630	.5
625.4839	14.00	-1.88	45321.848	3.0	61305.050	3.0
625.4906	24.01	-2.78	54444.190	3.5	70427.220	3.5
625.5011	24.00	-1.50	46688.240	3.0	62671.000	4.0
625.5027	26.02	-3.80	166498.000	3.0	182480.720	2.0
625.5139	14.00	-4.89	45321.848	3.0	61304.283	2.0
625.5301	22.00	-4.46	32857.721	3.0	48839.740	3.0
625.5317	26.01	-6.11	23031.300	1.5	39013.280	1.5
625.5379	26.00	-4.74	29313.008	6.0	45294.830	5.0
625.5387	18.01	-4.35	158428.030	.5	174409.830	1.5
625.5492	14.00	-3.42	45321.848	3.0	61303.381	3.0
625.5701	22.00	-4.82	29912.262	3.0	45893.260	3.0
625.5763	25.02	.20	216283.580	3.5	232264.420	3.5
625.5886	22.00	-2.00	25388.334	4.0	41368.860	4.0
625.5963	10.01	-4.95	301801.090	3.5	317781.420	2.5
625.6134	22.00	-3.14	25107.417	2.0	41087.310	3.0
625.6135	24.01	-4.91	53923.570	4.5	69903.460	3.5
625.6201	26.02	-4.81	135554.410	4.0	151534.130	3.0
625.6351	28.00	-3.25	13521.352	2.0	29500.690	1.0
625.6362	24.00	-3.14	41393.470	5.0	57372.780	4.0
625.6367	26.00	-2.30	19788.248	4.0	35767.546	4.0
625.6401	26.02	-3.42	186303.440	3.0	202282.650	2.0
625.6448	14.00	-2.71	48264.292	3.0	64243.380	2.0
625.6660	62.01	-1.63	9356.272	0.0	25339.241	0.0
625.6680	73.00	-2.24	5968.656	0.0	21951.573	0.0
625.6757	12.02	.46	545820.400	2.0	561798.700	3.0
625.6808	8.01	-2.44	232536.060	1.5	248514.230	1.5
625.6891	22.01	-3.87	47466.800	3.5	63444.760	3.5
625.6894	23.00	-1.89	2220.130	2.5	18198.080	2.5
625.7047	27.00	-.73	36092.440	2.5	52070.000	2.5
625.7165	22.01	-4.07	16625.250	1.5	32602.510	1.5
625.7180	6.01	-1.23	162517.890	.5	178495.110	1.5
625.7260	40.00	-.84	12663.231	0.0	28644.667	0.0
625.7400	22.00	-4.24	25926.820	4.0	41903.480	5.0
625.7572	27.00	-.67	29948.760	2.5	45924.980	3.5
625.7584	25.02	-1.25	179339.590	2.5	195315.780	2.5
625.7612	28.00	-1.90	42653.723	2.0	58629.840	2.0
625.7666	28.01	-4.01	118563.390	3.5	134539.370	2.5
625.7674	28.01	-2.43	113321.950	4.5	129297.910	3.5
625.7726	28.00	-3.16	42653.723	2.0	58629.550	3.0
625.7756	29.01	-.54	120789.630	4.0	136765.380	4.0
625.7784	26.00	-4.47	36940.600	2.0	52916.278	2.0
625.7819	22.00	-4.14	0.000	2.0	15975.590	3.0
625.8062	10.01	-1.79	312843.080	1.5	328818.050	2.5
625.8081	10.01	-1.65	312843.150	2.5	328818.070	3.5
625.8089	10.01	-2.66	312843.150	2.5	328818.050	2.5
625.8104	22.00	-.56	11639.804	3.0	27614.667	4.0
625.8109	25.02	-.41	176390.670	2.5	192365.520	1.5
625.8124	28.01	-.22	120316.020	.5	136290.830	.5
625.8293	28.01	-4.01	119656.250	3.5	135630.630	2.5
625.8332	23.00	-2.74	20789.130	2.5	36763.410	2.5
625.8442	7.00	-3.65	96864.020	2.5	112838.020	1.5
625.8551	24.00	-1.77	46688.240	3.0	62661.960	3.0
625.8574	28.00	-2.28	33112.368	3.0	49086.030	4.0
625.8575	23.01	-3.40	20980.920	2.0	36954.580	1.0
625.8606	25.00	-3.85	35041.370	3.5	51014.950	3.5
625.8622	6.00	-4.63	72610.720	2.0	88584.260	2.0
625.8629	28.00	-4.19	42656.317	1.0	58629.840	2.0
625.8638	23.00	-2.21	2112.320	.5	18085.820	.5
625.8642	10.01	-1.43	302839.280	2.5	318812.770	3.5
625.8708	23.00	-2.20	17181.980	4.5	33155.300	4.5
625.8709	22.00	-.45	11776.806	4.0	27750.124	5.0
625.8775	28.01	-3.20	119656.250	3.5	135629.400	3.5
625.8779	7.01	-1.32	210705.260	2.0	226678.400	2.0
625.8806	23.00	-3.31	2153.200	1.5	18126.270	1.5
625.8951	21.00	-.84	168.340	2.5	16141.040	2.5
625.8961	7.00	-3.49	96787.650	1.5	112760.325	2.5
625.9045	10.01	-.69	302831.800	.5	318804.260	1.5
625.9102	7.00	-2.88	96787.650	1.5	112759.966	1.5
625.9163	28.01	-2.07	119656.250	3.5	135628.410	4.5
625.9394	18.00	-2.80	107496.463	1.0	123468.034	1.0
625.9453	28.01	-3.14	76402.030	2.5	92373.450	2.5
625.9480	28.01	-.12	117763.910	1.5	133735.260	2.5
625.9493	26.00	-3.49	35379.189	5.0	51350.505	4.0
625.9563	6.01	-.97	162524.570	1.5	178495.710	2.5
625.9592	28.00	-1.97	32982.280	1.0	48953.344	1.0
625.9724	7.01	-.27	210705.260	2.0	226675.990	3.0
625.9735	15.00	-3.91	64239.500	.5	80210.200	.5
625.9776	14.00	-4.95	48020.074	1.0	63990.670	2.0
625.9798	6.01	-1.93	162524.570	1.5	178495.110	1.5
625.9826	26.00	-3.88	36079.353	3.0	52049.820	2.0
625.9845	24.00	-1.44	46720.540	4.0	62690.960	5.0
625.9847	22.00	-3.63	20126.055	3.0	36096.470	3.0
626.0190	24.00	-3.04	46677.060	2.0	62646.600	2.0
626.0256	7.01	-.69	210751.430	1.0	226720.800	2.0
626.0268	26.02	-2.97	182852.050	7.0	198821.390	6.0
626.0425	24.00	-1.38	46704.980	5.0	62673.920	6.0
626.0695	24.00	-3.55	46678.350	1.0	62646.600	2.0
626.0766	10.01	-2.58	302192.920	4.5	318160.990	3.5
626.0770	41.00	-1.07	17905.969	0.0	33878.445	0.0
626.0781	15.01	-2.46	107923.570	2.0	123891.600	2.0
626.0793	25.01	-8.99	27589.030	2.0	43557.030	1.0
626.1101	22.00	-.68	11531.760	2.0	27498.975	3.0
626.1106	22.00	-1.89	25227.217	3.0	41194.420	3.0
626.1107	23.01	-2.47	20522.140	1.0	36489.340	1.0
626.1107	13.01	-2.73	134181.200	3.0	150148.400	2.0
626.1107	13.01	-4.15	134181.200	3.0	150148.400	3.0
626.1107	13.01	-3.01	134181.200	4.0	150148.400	3.0
626.1107	13.01	-2.12	134181.200	4.0	150148.400	3.0
626.1107	13.01	-4.02	134181.200	4.0	150148.400	4.0
626.1107	13.01	-4.16	134181.200	4.0	150148.400	4.0
626.1107	13.01	-2.50	134181.200	5.0	150148.400	4.0
626.1119	7.01	-.87	210751.430	1.0	226718.600	1.0
626.1138	28.00	-2.05	42621.048	3.0	58588.168	3.0
626.1217	23.00	-2.89	2153.200	1.5	18120.120	.5
626.1236	23.01	-4.54	36425.070	4.0	52391.940	3.0
626.1248	24.00	-1.68	33060.740	3.0	49027.580	2.0
626.1440	28.01	-2.36	119656.250	3.5	135622.600	3.5
626.1542	25.02	-4.67	177269.340	1.5	193235.430	2.5
626.1581	9.02	-2.51	442370.280	.5	458336.270	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
626.1588	22.00	-3.17	26892.926	3.0	42858.900	3.0
626.1648	10.01	-2.19	302839.280	2.5	318805.100	2.5
626.1778	29.01	.06	121078.960	3.0	137044.450	4.0
626.1836	28.01	-4.00	119665.290	2.5	135630.630	2.5
626.1852	15.00	-1.81	64239.500	.5	80204.800	1.5
626.1949	26.00	-4.89	42859.756	2.0	58824.810	2.0
626.1978	10.01	-2.40	302839.280	2.5	318804.260	1.5
626.2099	29.01	-1.11	123016.630	3.0	138981.300	2.0
626.2103	28.01	-3.69	115870.280	2.5	131834.940	2.5
626.2250	63.00	-.03	13147.176	0.0	29115.877	0.0
626.2252	21.00	-.60	18515.770	1.5	34480.050	2.5
626.2272	10.01	-1.77	302192.920	4.5	318157.150	3.5
626.2300	57.01	-2.15	3226.301	0.0	19194.875	0.0
626.2319	28.01	-3.76	119665.290	2.5	135629.400	3.5
626.2397	28.01	-1.36	104081.040	4.5	120044.950	4.5
626.2421	28.01	-4.16	118563.390	3.5	134527.240	3.5
626.2464	25.02	.31	176209.150	1.5	192172.890	2.5
626.2540	59.01	-1.65	9598.245	0.0	25566.207	0.0
626.2621	28.01	-3.08	116261.810	.5	132225.150	1.5
626.2641	26.02	-3.66	182810.660	5.0	198773.950	5.0
626.2700	10.01	-.66	302192.920	4.5	318156.060	4.5
626.2813	27.00	-2.74	18389.570	1.5	34352.420	1.5
626.2998	25.01	-4.49	55115.800	2.0	71078.180	1.0
626.3115	24.01	-3.25	50687.630	2.5	66649.710	1.5
626.3213	28.01	-2.96	119656.250	3.5	135618.080	2.5
626.3292	29.01	-3.32	128853.300	2.0	144814.930	3.0
626.3649	25.02	-.90	179152.090	3.5	195112.810	3.5
626.3677	9.00	-1.25	117622.923	2.5	133583.570	2.5
626.3759	7.00	-3.80	96864.020	2.5	112824.459	2.5
626.4270	42.00	-.30	33714.843	0.0	49678.395	0.0
626.4308	23.01	-3.58	32299.240	1.0	48258.280	0.0
626.4418	26.02	-3.30	182379.860	5.0	198338.620	4.0
626.4442	24.00	-2.89	31009.000	3.0	46967.700	2.0
626.4485	9.02	-1.37	442636.270	3.5	458594.860	2.5
626.4497	23.00	-3.80	15270.420	1.5	31228.980	2.5
626.4509	26.02	-2.75	166421.330	4.0	182379.860	5.0
626.4575	24.00	-2.78	46688.240	3.0	62646.600	2.0
626.4599	28.01	-4.79	119665.290	2.5	135623.590	1.5
626.4673	25.00	-4.48	52758.110	4.5	68716.220	4.5
626.4810	22.00	-4.22	29855.248	1.0	45813.010	2.0
626.4829	22.00	-7.17	14028.470	2.0	29986.185	3.0
626.4901	17.00	-4.48	84988.480	1.5	100946.010	.5
626.4913	30.02	-1.98	218909.400	1.0	234866.900	1.0
626.4948	28.01	-3.70	117972.470	3.5	133929.880	3.5
626.4988	28.01	-2.88	119665.290	2.5	135622.600	3.5
626.5058	25.02	-.64	216307.290	4.5	232264.420	3.5
626.5140	26.00	-2.74	17550.180	3.0	33507.102	3.0
626.5219	26.02	-2.44	182379.860	5.0	198336.580	5.0
626.5498	29.01	-.86	121078.960	3.0	137034.970	3.0
626.5612	25.00	-1.54	34138.880	6.5	50094.600	6.5
626.5880	42.00	-1.88	18389.915	0.0	34349.365	0.0
626.6020	57.00	-.45	9840.217	0.0	25799.311	0.0
626.6033	22.00	-4.45	14105.680	3.0	30060.328	4.0
626.6044	28.01	-3.46	119665.290	2.5	135619.910	1.5
626.6052	30.02	-.36	217655.800	3.0	233610.400	2.0
626.6100	9.00	-2.96	117622.923	2.5	133577.400	1.5
626.6170	90.01	-2.80	8388.382	0.0	24347.094	0.0
626.6315	23.00	-2.80	2220.130	2.5	18174.060	1.5
626.6327	26.02	-2.39	182379.860	5.0	198333.760	6.0
626.6464	25.01	-2.02	98423.700	5.0	114377.250	4.0
626.6495	10.00	-.53	134818.640	0.0	150772.112	1.0
626.6503	25.01	-2.44	98423.800	4.0	114377.250	4.0
626.6582	25.01	-3.26	98424.000	3.0	114377.250	4.0
626.6629	28.01	-2.52	121325.090	2.5	137278.220	1.5
626.6684	26.02	-1.76	189784.520	2.0	205737.510	2.0
626.6688	25.02	-2.71	124823.900	4.5	140776.880	5.5
626.6747	23.00	-3.47	21603.170	4.5	37556.000	3.5
626.6763	28.01	-2.99	119665.290	2.5	135618.080	2.5
626.6924	15.00	-2.35	65450.020	1.5	81402.400	2.5
626.6950	63.00	-2.37	0.000	0.0	15956.725	0.0
626.6990	24.00	-3.80	41409.030	2.0	57361.240	3.0
626.7034	13.01	-.74	133914.100	2.0	149866.200	3.0
626.7060	40.00	-1.37	11856.655	0.0	27813.100	0.0
626.7112	28.02	-3.49	121412.200	2.0	137364.100	1.0
626.7120	28.01	-2.01	117662.110	1.5	133613.990	1.5
626.7132	25.01	-4.87	55371.300	3.0	71323.150	2.0
626.7280	62.01	-1.26	9356.272	0.0	25312.157	0.0
626.7352	28.01	-3.78	120250.170	3.5	136201.460	3.5
626.7462	23.00	-3.84	15770.720	4.5	31721.730	4.5
626.7678	24.00	-1.63	46720.540	4.0	62671.000	4.0
626.7686	28.01	-.85	117972.470	3.5	133922.910	4.5
626.7691	26.00	-2.98	31805.059	3.0	47755.485	3.0
626.7694	23.00	-3.46	20812.990	1.5	36763.410	2.5
626.7776	18.01	-4.68	186470.280	1.5	202420.490	.5
626.7836	28.00	-4.91	43089.636	5.0	59039.693	4.0
626.7844	26.00	-2.94	34636.820	2.0	50586.857	3.0
626.7875	25.00	-4.32	34423.270	3.5	50373.230	2.5
626.7949	28.01	-3.00	113321.950	4.5	129271.720	3.5
626.8129	7.00	-2.49	96787.650	1.5	112736.961	1.5
626.8157	20.02	-3.96	344257.920	1.0	360207.160	2.0
626.8173	15.00	-1.81	65585.000	2.5	81534.200	3.5
626.8311	23.00	.10	26604.770	3.5	42553.620	4.5
626.8385	24.00	-3.55	27176.220	1.0	43124.880	2.0
626.8449	7.00	-4.90	96864.020	2.5	112812.518	2.5
626.8532	22.00	-4.11	11531.760	2.0	27480.047	3.0
626.8641	23.00	-2.95	26122.040	3.5	42070.050	2.5
626.8660	92.00	-1.45	8065.752	0.0	24018.125	0.0
626.8700	73.00	-1.48	12179.286	0.0	28131.557	0.0
626.8704	26.02	-3.42	189784.520	2.0	205732.370	3.0
626.8814	23.00	-3.35	2424.890	4.5	18372.460	3.5
626.8834	23.00	-2.92	2311.370	3.5	18258.890	2.5
626.8923	22.00	-4.32	30060.328	4.0	46007.620	4.0
626.9062	28.01	-4.06	112906.930	1.5	128853.870	2.5
626.9156	26.02	-4.52	166498.000	3.0	182444.700	3.0
626.9156	30.02	-2.49	217663.700	1.0	233610.400	2.0
626.9410	76.00	.78	42829.143	0.0	58779.607	0.0
626.9522	20.02	-2.41	370304.540	2.0	386250.310	3.0
626.9803	28.00	-3.41	42585.296	4.0	58530.350	3.0
626.9820	23.02	-.99	145978.270	2.5	161923.280	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
626.9982	26.01	-5.19	26170.190	5.5	42114.790	4.5
626.9994	10.01	-1.80	302890.570	2.5	318835.140	2.5
627.0017	26.02	-2.53	182392.550	2.0	198337.060	3.0
627.0135	10.01	-1.74	302890.570	2.5	318834.780	3.5
627.0228	26.00	-2.61	23051.744	0.0	38995.717	1.0
627.0257	12.02	.28	548720.700	1.0	564664.600	2.0
627.0328	28.01	-2.79	100332.090	4.5	116275.810	3.5
627.0351	25.00	-3.60	45013.550	2.5	60957.210	3.5
627.0516	24.00	-2.43	39158.630	4.0	55101.870	3.0
627.0536	26.02	-2.81	182830.760	6.0	198773.950	5.0
627.0835	25.00	-3.34	34138.880	6.5	50081.310	5.5
627.0922	23.00	-3.10	26171.960	4.5	42114.170	3.5
627.0946	7.01	-.76	210776.450	0.0	226716.600	1.0
627.1067	22.01	-5.66	15265.600	3.5	31207.440	2.5
627.1154	24.00	-4.12	41409.030	2.0	57350.650	2.0
627.1209	26.02	-2.88	189796.030	1.0	205737.510	2.0
627.1232	24.00	-4.28	46720.540	4.0	62661.960	3.0
627.1276	29.01	-4.07	130945.000	2.0	146886.310	1.0
627.1287	26.00	-3.37	26874.534	5.0	42815.814	5.0
627.1307	24.00	-3.20	38730.670	2.0	54671.900	1.0
627.1314	17.00	-2.03	84648.100	2.5	100589.312	2.5
627.1338	7.00	-2.93	96750.810	1.5	112691.960	.5
627.1370	75.00	-.66	28794.735	0.0	44740.214	0.0
627.1378	22.00	-4.53	18593.990	3.0	34535.040	2.0
627.1394	26.02	-2.56	182392.550	2.0	198333.560	2.0
627.1468	27.00	-.79	36092.440	2.5	52033.260	1.5
627.1539	25.02	-3.85	121197.050	2.5	137137.690	1.5
627.1540	26.00	-3.48	36975.640	3.0	52916.278	2.0
627.1551	26.01	-3.82	58666.360	3.5	74606.970	2.5
627.1767	28.00	-2.36	26665.903	3.0	42605.964	3.0
627.1815	24.01	-3.82	53566.220	3.5	69506.160	3.5
627.1913	28.01	-3.76	119909.720	1.5	135849.410	2.5
627.1917	27.00	-3.35	17233.680	3.5	33173.360	3.5
627.1925	27.00	-5.58	13795.520	2.5	29735.180	3.5
627.2050	58.01	-.81	12340.601	0.0	28284.351	0.0
627.2086	9.02	-3.11	426431.030	.5	442370.280	.5
627.2149	25.02	-3.41	115762.600	1.5	131701.690	1.5
627.2185	30.02	-3.08	219684.900	3.0	235623.900	3.0
627.2196	7.01	-2.70	170572.610	2.0	186511.580	2.0
627.2251	24.00	-3.19	37233.500	5.0	53172.330	5.0
627.2424	10.01	.11	302247.780	3.5	318186.170	4.5
627.2444	6.00	-3.05	72610.720	2.0	88549.060	1.0
627.2456	23.01	-4.08	20980.920	2.0	36919.230	3.0
627.2616	28.00	-2.62	34408.574	1.0	50346.477	2.0
627.2932	15.00	-1.68	65585.000	2.5	81522.100	2.5
627.2967	7.00	-3.72	96864.020	2.5	112801.031	1.5
627.2968	24.00	-4.90	25106.340	3.0	41043.350	3.0
627.2980	28.01	-4.52	117872.780	2.5	133809.760	3.5
627.2987	23.00	-4.97	28595.640	3.5	44532.600	2.5
627.3007	27.00	-.62	28845.220	5.5	44782.130	4.5
627.3027	27.00	-3.63	32781.710	2.5	48718.570	2.5
627.3153	24.00	-3.91	31049.330	6.0	46985.870	5.0
627.3247	29.01	.80	120789.630	4.0	136725.930	5.0
627.3361	25.00	-4.76	34423.270	3.5	50359.280	3.5
627.3386	22.00	-4.10	170.132	3.0	16106.080	4.0
627.3468	21.00	-1.84	29189.830	4.5	45125.570	4.5
627.3512	28.00	-2.91	42585.296	4.0	58520.923	5.0
627.3518	22.00	-4.35	29829.097	0.0	45764.710	1.0
627.3598	26.01	-3.76	50142.930	2.5	66078.340	2.5
627.3649	25.02	-.50	176641.140	3.5	192576.420	2.5
627.3760	57.01	-.84	24358.571	0.0	40297.976	0.0
627.3775	25.02	-.76	176945.200	4.5	192880.160	3.5
627.3775	7.01	-4.93	210705.260	2.0	226640.220	3.0
627.3905	27.00	-2.50	36329.860	2.5	52264.490	1.5
627.3953	9.00	-2.57	117622.923	2.5	133557.430	2.5
627.3977	28.00	-2.26	42653.723	2.0	58588.168	3.0
627.4082	6.00	-4.62	72610.720	2.0	88544.900	3.0
627.4130	90.01	-2.68	4113.534	0.0	20051.999	0.0
627.4172	23.00	-3.27	17054.870	2.5	32988.820	3.5
627.4269	7.00	-2.10	96864.020	2.5	112797.725	3.5
627.4299	16.01	-2.60	114200.450	1.5	130134.080	2.5
627.4350	15.00	-1.88	64239.500	.5	80173.000	.5
627.4464	23.00	-1.20	20767.570	3.5	36700.780	2.5
627.4476	22.00	-2.18	18145.400	2.0	34078.580	3.0
627.4620	28.00	-4.01	42585.296	4.0	58518.110	4.0
627.4684	28.01	-4.94	120268.810	3.5	136201.460	3.5
627.4696	23.00	-1.69	2153.200	1.5	18085.820	.5
627.4800	70.01	-.55	31779.063	0.0	47715.826	0.0
627.4921	24.01	-3.71	53566.220	3.5	69498.270	4.5
627.4940	76.00	.39	40086.787	0.0	56023.194	0.0
627.5121	27.00	-1.20	30443.630	1.5	46375.170	1.5
627.5326	24.01	-3.29	73406.680	.5	89337.700	1.5
627.5366	26.02	-4.82	114325.350	5.0	130256.270	5.0
627.5460	6.00	-2.94	72610.720	2.0	88541.400	2.0
627.5500	7.00	-1.95	96750.810	1.5	112681.389	2.5
627.5523	24.00	-4.50	31055.350	5.0	46985.870	5.0
627.5733	28.00	-3.80	43258.792	4.0	59188.780	3.0
627.5842	26.02	-2.76	182408.910	3.0	198338.620	4.0
627.5846	23.00	-4.13	15270.420	1.5	31200.120	1.5
627.6201	21.02	-.06	112254.200	1.5	128183.000	.5
627.6229	25.00	-1.10	47154.510	1.5	63083.240	1.5
627.6260	27.00	-3.06	27497.060	2.5	43425.710	2.5
627.6311	21.00	-2.03	168.340	2.5	16096.860	1.5
627.6319	13.01	-2.23	134181.200	4.0	150109.700	3.0
627.6319	13.01	-2.97	134181.200	4.0	150109.700	3.0
627.6319	13.01	-4.03	134181.200	3.0	150109.700	3.0
627.6428	17.00	-1.98	85244.330	.5	101172.553	1.5
627.6453	24.00	-4.98	37244.170	4.0	53172.330	5.0
627.6457	26.02	-3.01	182408.910	3.0	198337.060	3.0
627.6587	27.00	-1.22	29948.760	2.5	45876.580	2.5
627.6615	27.00	-1.68	33150.680	1.5	49078.430	1.5
627.6626	28.01	-4.74	53037.930	2.5	68965.650	1.5
627.6633	17.00	-2.21	85917.937	.5	101845.640	1.5
627.6660	45.00	-2.24	16050.847	0.0	31982.887	0.0
627.6733	29.01	-1.54	117666.600	4.0	133594.050	3.0
627.6780	15.00	-2.55	65373.470	.5	81300.800	1.5
627.6863	23.00	-3.07	21603.170	4.5	37530.290	5.5
627.6871	17.02	-2.25	185838.000	1.5	201765.100	2.5
627.6922	7.01	-.84	210751.430	1.0	226678.400	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
627.6989	13.01	-3.84	105438.400	1.0	121365.200	0.0
627.7230	90.01	-3.07	6129.972	0.0	22060.566	0.0
627.7273	10.01	-4.19	301855.710	2.5	317781.790	1.5
627.7312	10.01	-1.06	302902.570	1.5	318828.550	2.5
627.7316	26.02	-2.67	182412.650	4.0	198338.620	4.0
627.7343	26.00	-4.28	22249.430	3.0	38175.332	3.0
627.7387	9.02	-2.41	425390.010	.5	441315.600	.5
627.7419	18.01	-1.87	191169.520	1.5	207095.230	2.5
627.7460	45.00	-1.99	16050.847	0.0	31980.857	0.0
627.7478	25.01	-1.85	98423.500	6.0	114349.060	5.0
627.7492	22.00	-5.32	13981.750	1.0	29907.273	2.0
627.7557	25.01	-2.62	98423.700	5.0	114349.060	5.0
627.7596	28.01	-3.91	52205.950	3.5	68131.210	3.5
627.7596	25.01	-3.66	98423.800	4.0	114349.060	5.0
627.7684	26.00	-4.96	29356.780	2.0	45281.816	2.0
627.7738	10.01	-2.50	302903.650	2.5	318828.550	2.5
627.7738	10.01	-3.11	302903.650	2.5	318828.550	3.5
627.7770	16.01	-4.92	109560.500	.5	125485.320	.5
627.7837	26.02	-4.29	182408.910	3.0	198333.560	2.0
627.7852	23.00	-1.88	26480.280	3.5	42404.890	3.5
627.7931	26.02	-3.35	182412.650	4.0	198337.060	3.0
627.8120	26.02	-2.56	182412.650	4.0	198336.580	5.0
627.8124	28.01	-3.00	115108.090	2.5	131032.010	2.5
627.8136	27.00	-.52	40621.620	1.5	56545.510	2.5
627.8164	28.01	-3.94	76402.030	2.5	92325.850	3.5
627.8180	79.00	-1.55	21293.585	0.0	37221.768	0.0
627.8219	26.01	-7.70	27314.930	3.5	43238.610	2.5
627.8287	14.00	-2.43	48264.292	3.0	64187.800	3.0
627.8635	18.00	-2.82	106237.597	2.0	122160.220	3.0
627.8668	23.00	-9.54	14910.040	3.5	30832.580	2.5
627.8680	59.01	-1.65	9598.245	0.0	25525.160	0.0
627.8720	23.02	-.93	145647.000	1.5	161569.410	1.5
627.8747	23.00	-4.68	28768.130	4.5	44690.470	3.5
627.8760	75.00	-1.54	21616.215	0.0	37542.927	0.0
627.8802	10.01	-.04	302890.570	2.5	318812.770	3.5
627.8854	25.01	-2.22	98423.800	4.0	114345.870	3.0
627.8933	25.01	-2.42	98424.000	3.0	114345.870	3.0
627.8941	14.00	-4.22	45276.188	1.0	61198.036	0.0
627.8952	28.01	-.47	104081.040	4.5	120002.860	3.5
627.8972	25.01	-3.06	98424.100	2.0	114345.870	3.0
627.9032	9.00	-1.68	117622.923	2.5	133544.540	3.5
627.9076	26.00	-4.71	34782.406	5.0	50703.912	5.0
627.9094	25.02	-2.89	115780.230	2.5	131701.690	1.5
627.9157	25.02	.24	216557.380	3.5	232478.680	4.5
627.9160	90.01	-1.81	12824.546	0.0	28750.243	0.0
627.9183	22.00	-2.82	29768.655	2.0	45689.890	3.0
627.9186	22.00	-1.10	30039.211	5.0	45960.439	6.0
627.9339	25.01	-2.48	98424.000	3.0	114344.840	2.0
627.9343	14.00	-2.01	47284.061	1.0	63204.890	2.0
627.9378	25.01	-2.49	98424.100	2.0	114344.840	2.0
627.9394	26.02	-4.26	166498.000	3.0	182418.700	4.0
627.9397	22.00	-4.55	26803.417	2.0	42724.110	2.0
627.9603	21.00	-1.71	29096.200	3.5	45016.370	3.5
627.9639	25.01	-2.88	98424.100	2.0	114344.180	1.0
627.9640	92.01	-2.71	5726.684	0.0	21651.164	0.0
627.9702	26.02	-3.17	182418.700	4.0	198338.620	4.0
627.9765	21.01	-1.16	12101.450	1.0	28021.210	2.0
627.9796	20.02	-.48	324660.470	3.0	340580.150	3.0
627.9824	26.01	-5.90	22939.350	2.5	38858.960	2.5
628.0026	22.00	-2.47	18061.540	1.0	33980.639	2.0
628.0033	28.01	-4.64	100592.980	3.5	116512.060	3.5
628.0124	24.00	-4.93	31048.850	1.0	46967.700	2.0
628.0144	21.00	-.99	18504.050	.5	34422.850	1.5
628.0200	92.01	-2.36	5323.396	0.0	21246.456	0.0
628.0272	17.00	-2.01	84132.262	2.5	100050.736	1.5
628.0317	26.02	-3.97	182418.700	4.0	198337.060	3.0
628.0368	28.01	-4.88	121042.520	1.5	136960.750	2.5
628.0388	28.01	-1.31	121042.570	1.5	136960.750	2.5
628.0507	26.02	-2.81	182418.700	4.0	198336.580	5.0
628.0621	26.00	-4.26	6928.266	5.0	22845.856	5.0
628.0720	28.01	-4.44	121042.520	1.5	136959.860	2.5
628.0739	28.01	-4.87	121042.570	1.5	136959.860	2.5
628.0759	26.00	-2.52	36940.600	2.0	52857.840	1.0
628.0984	23.00	-1.24	23210.560	2.5	39127.230	1.5
628.1122	26.02	-3.20	114339.950	4.0	130256.270	5.0
628.1254	14.00	-4.75	48102.323	2.0	64018.310	1.0
628.1272	24.00	-4.92	33906.650	1.0	49822.590	2.0
628.1330	73.00	-2.02	10888.765	0.0	26808.960	0.0
628.1363	25.02	-1.28	216149.320	3.5	232065.030	2.5
628.1525	28.01	-3.70	112906.930	1.5	128822.230	1.5
628.1627	23.00	-7.15	14949.300	4.5	30864.340	5.5
628.1765	9.00	-1.79	117308.558	1.5	133223.250	.5
628.1829	10.01	-.94	302890.570	2.5	318805.100	2.5
628.1962	26.00	-4.27	35856.386	2.0	51770.577	3.0
628.1987	28.01	-4.62	118294.170	3.5	134208.300	2.5
628.2161	10.01	-2.22	302890.570	2.5	318804.260	1.5
628.2231	10.01	-1.96	302247.780	3.5	318161.290	2.5
628.2334	23.00	-1.16	17242.050	5.5	33155.300	4.5
628.2349	10.01	-.78	302247.780	3.5	318160.990	3.5
628.2389	18.01	-4.36	186340.480	1.5	202253.590	1.5
628.2508	28.01	-3.74	116312.340	1.5	132225.150	1.5
628.2527	28.01	-3.67	121042.520	1.5	136955.280	.5
628.2547	28.01	-4.98	121042.570	1.5	136955.280	.5
628.2638	27.00	-2.17	14036.280	1.5	29948.760	2.5
628.2677	23.00	-2.22	26344.940	4.5	42257.320	5.5
628.2701	25.00	-4.93	35725.850	2.5	51638.170	2.5
628.2811	18.01	-3.37	174820.930	.5	190732.970	.5
628.2812	25.02	.09	176100.710	.5	192012.750	1.5
628.2823	28.01	-2.98	115120.000	2.5	131032.010	2.5
628.2867	13.01	-1.51	132819.700	3.0	148731.600	3.0
628.2946	13.01	-.61	132819.900	2.0	148731.600	3.0
628.2961	8.01	-3.14	232602.570	.5	248514.230	1.5
628.2962	24.00	-3.55	37205.880	3.0	53117.540	4.0
628.2966	23.00	-1.88	20789.130	2.5	36700.780	2.5
628.3143	25.01	-4.79	52373.180	3.0	68284.380	3.0
628.3258	26.02	-4.18	166498.000	3.0	182408.910	3.0
628.3582	28.01	-2.15	121050.660	2.5	136960.750	2.5
628.3610	22.00	-1.41	33114.412	2.0	49024.430	3.0
628.3635	26.00	-4.55	29371.860	3.0	45281.816	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
628.3771	23.00	-4.47	21646.390	3.5	37556.000	3.5
628.3787	26.02	-2.25	189784.520	2.0	205694.090	1.0
628.3830	22.00	-4.45	29855.248	1.0	45764.710	1.0
628.3831	23.02	-3.67	144772.020	3.5	160681.480	3.5
628.3866	10.01	-2.89	302247.780	3.5	318157.150	3.5
628.3893	28.00	-1.93	42621.048	3.0	58530.350	3.0
628.4150	21.00	-.90	18571.400	2.5	34480.050	2.5
628.4297	10.01	-2.19	302247.780	3.5	318156.060	4.5
628.4324	7.01	-1.42	174212.030	2.0	190120.240	1.0
628.4490	44.00	-1.10	22180.818	0.0	38093.008	0.0
628.4715	24.00	-2.90	38911.330	3.0	54818.550	2.0
628.4751	22.01	-6.57	16625.250	1.5	32532.380	.5
628.4759	25.02	-3.78	176265.780	1.5	192172.890	2.5
628.4771	21.00	-.87	18515.770	1.5	34422.850	1.5
628.4773	22.00	-4.28	29986.185	3.0	45893.260	3.0
628.4826	26.02	-2.91	182810.660	5.0	198717.600	4.0
628.4969	10.01	-3.04	302935.310	4.5	318841.890	4.5
628.4976	10.01	-3.02	302935.330	5.5	318841.890	4.5
628.4984	10.01	-3.15	302935.310	4.5	318841.850	3.5
628.5142	23.00	-1.50	2220.130	2.5	18126.270	1.5
628.5280	90.01	-2.21	11614.683	0.0	27524.873	0.0
628.5301	22.00	-4.46	29907.273	2.0	45813.010	2.0
628.5866	7.00	-1.87	96787.650	1.5	112691.960	.5
628.5900	74.00	-1.39	19680.435	0.0	35589.056	0.0
628.5948	30.02	-1.73	221143.700	3.0	237047.800	2.0
628.5950	63.00	-1.27	12824.546	0.0	28733.040	0.0
628.6075	28.01	-3.09	97273.830	2.5	113177.610	3.5
628.6110	7.01	-1.93	170607.890	1.0	186511.580	2.0
628.6252	16.01	-1.46	114230.750	2.5	130134.080	2.5
628.6292	9.02	-1.66	426733.040	2.5	442636.270	3.5
628.6351	23.00	-3.93	19189.280	1.5	35092.360	1.5
628.6410	75.00	-1.14	27020.269	0.0	42927.599	0.0
628.6506	26.00	-3.71	32133.977	2.0	48036.667	2.0
628.6561	24.01	-4.66	68305.730	1.5	84208.280	.5
628.6561	28.01	-4.75	119656.250	3.5	135558.800	4.5
628.6632	28.01	-.10	106022.790	.5	121925.160	.5
628.6727	25.02	-.73	216162.900	1.5	232065.030	2.5
628.6830	76.00	-1.74	18793.202	0.0	34699.470	0.0
628.6846	24.00	-3.12	27223.050	2.0	43124.880	2.0
628.6952	27.00	-2.85	27497.060	2.5	43398.620	3.5
628.6956	23.00	.04	26604.770	3.5	42506.320	4.5
628.6956	16.01	-.30	115285.310	3.5	131186.860	2.5
628.7004	24.01	-2.92	73436.270	2.5	89337.700	1.5
628.7411	28.01	-2.09	115000.250	3.5	130900.650	2.5
628.7581	25.02	1.25	216533.060	6.5	232433.030	7.5
628.7657	12.00	-2.98	43503.333	0.0	59403.110	1.0
628.7740	57.00	-1.24	9114.300	0.0	25018.265	0.0
628.7888	28.00	-2.73	28212.997	0.0	44112.192	1.0
628.7910	73.00	-2.09	12179.286	0.0	28082.822	0.0
628.7961	23.00	.04	26505.880	2.5	42404.890	3.5
628.8280	77.00	-1.99	16454.134	0.0	32356.734	0.0
628.8302	26.00	-4.99	35856.386	2.0	51754.534	1.0
628.8336	26.02	-2.92	189796.030	1.0	205694.090	1.0
628.8495	28.01	-1.05	104147.290	5.5	120044.950	4.5
628.8511	28.01	-.22	103025.580	2.5	118923.200	3.5
628.8560	57.00	-1.24	9598.245	0.0	25500.137	0.0
628.8617	29.01	-.54	120875.850	2.0	136773.200	1.0
628.8689	27.00	-3.06	36875.130	1.5	52772.300	2.5
628.8728	26.02	-4.47	186303.440	3.0	202200.510	3.0
628.8731	28.00	-2.66	42621.048	3.0	58518.110	4.0
628.8993	25.00	-4.24	45060.810	3.5	60957.210	3.5
628.9031	7.00	-2.62	96864.020	2.5	112760.325	2.5
628.9045	25.01	-7.91	27588.230	3.0	43484.500	2.0
628.9140	24.00	-3.36	31009.000	3.0	46905.030	4.0
628.9156	7.01	-3.53	205350.180	2.0	221246.170	1.0
628.9173	7.00	-4.63	96864.020	2.5	112759.966	1.5
628.9340	73.00	-2.27	10566.135	0.0	26466.055	0.0
628.9361	25.01	-8.22	27589.030	2.0	43484.500	2.0
628.9424	28.01	-3.04	118774.760	.5	134670.070	1.5
628.9484	16.01	-.62	140708.510	2.5	156603.670	3.5
628.9519	25.00	-3.44	45060.810	3.5	60955.880	4.5
628.9725	26.02	-4.75	166498.000	3.0	182392.550	2.0
628.9760	10.01	-2.64	302307.750	2.5	318202.210	1.5
628.9900	62.01	-1.87	9356.272	0.0	25254.776	0.0
628.9974	26.02	-2.76	182444.700	3.0	198338.620	4.0
629.0149	28.01	-3.03	118314.820	2.5	134208.300	2.5
629.0243	10.01	-3.06	302935.310	4.5	318828.550	3.5
629.0354	18.01	-4.07	196305.040	3.5	212198.000	3.5
629.0398	18.01	-2.53	196305.040	3.5	212197.890	4.5
629.0418	28.01	-3.58	100619.260	4.5	116512.060	3.5
629.0422	28.01	-3.74	112906.930	1.5	128799.720	.5
629.0473	25.02	-4.24	176683.760	2.5	192576.420	2.5
629.0549	26.00	-4.63	20874.482	3.0	36766.950	3.0
629.0568	28.01	-1.11	121385.800	1.5	137278.220	1.5
629.0592	26.02	-2.47	182444.700	3.0	198337.060	3.0
629.0600	9.02	-4.28	416168.300	1.5	432060.640	1.5
629.0631	28.01	-2.45	106283.160	2.5	122175.420	2.5
629.0651	26.01	-3.94	44915.070	3.5	60807.280	4.5
629.0740	42.01	-1.95	18228.600	0.0	34124.981	0.0
629.0912	16.01	-1.05	140229.780	2.5	156121.330	2.5
629.0937	26.00	-1.19	38175.332	3.0	54066.821	2.0
629.1036	26.00	-2.32	38175.332	3.0	54066.570	4.0
629.1071	28.01	-2.31	116838.330	1.5	132729.480	2.5
629.1340	63.00	-2.32	0.000	0.0	15894.865	0.0
629.1360	14.00	-3.02	63773.580	2.0	79664.000	1.0
629.1506	25.00	-3.81	35041.370	3.5	50931.420	2.5
629.1748	28.01	-3.53	98969.440	5.5	114858.880	5.5
629.1807	8.01	-3.52	232536.060	1.5	248425.350	.5
629.1820	62.01	-1.32	11292.053	0.0	27185.705	0.0
629.1823	25.00	-4.39	45013.550	2.5	60902.800	3.5
629.1835	27.00	-1.30	29216.370	2.5	45105.590	3.5
629.1884	26.00	-2.21	40534.180	3.0	56423.276	4.0
629.1978	26.02	-3.52	182444.700	3.0	198333.560	2.0
629.2030	74.00	-1.99	13227.833	0.0	29120.955	0.0
629.2181	14.00	-2.35	48102.323	2.0	63990.670	2.0
629.2219	23.00	-1.11	23353.090	3.5	39241.340	2.5
629.2287	25.02	.72	215473.200	1.5	231361.280	2.5
629.2358	6.00	-2.90	72610.720	2.0	88498.620	2.0
629.2401	23.00	-3.07	20812.990	1.5	36700.780	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
629.2433	24.00	-4.02	33934.880	3.0	49822.590	2.0
629.2510	22.00	-4.76	20126.055	3.0	36013.570	2.0
629.2738	24.00	-4.37	33935.650	2.0	49822.590	2.0
629.2829	23.00	-1.46	2311.370	3.5	18198.080	2.5
629.2861	21.00	-1.82	29022.870	2.5	44909.500	2.5
629.2870	64.00	-2.02	967.890	0.0	16858.890	0.0
629.2996	28.01	-4.13	100389.520	2.5	116275.810	3.5
629.3009	22.00	-2.70	11531.760	2.0	27418.015	2.0
629.3011	22.00	-7.63	14028.470	2.0	29914.720	3.0
629.3031	21.00	-.97	18504.050	.5	34390.250	.5
629.3186	28.01	-3.70	115785.060	1.5	131670.870	2.5
629.3320	92.00	-2.22	564.603	0.0	16454.467	0.0
629.3380	45.00	-2.14	16050.847	0.0	31940.560	0.0
629.3570	57.00	-1.39	3468.273	0.0	19357.506	0.0
629.3594	26.01	-4.96	47674.780	1.5	63559.560	.5
629.3745	10.00	-2.08	150772.112	1.0	166656.508	1.0
629.3803	10.01	-1.70	312811.650	3.5	328695.900	2.5
629.3804	26.01	-5.92	26352.800	4.5	42237.050	3.5
629.3887	24.00	-3.84	37233.500	5.0	53117.540	4.0
629.3902	26.00	-2.24	38995.717	1.0	54879.720	2.0
629.3946	23.02	-2.05	145143.430	4.5	161027.320	4.5
629.3985	22.00	-3.78	14028.470	2.0	29912.262	3.0
629.4070	26.00	-3.92	35856.386	2.0	51739.964	2.0
629.4164	23.00	-1.12	26480.280	3.5	42363.620	3.5
629.4497	23.00	-1.95	20812.990	1.5	36695.490	.5
629.4501	18.01	-2.67	196315.510	2.5	212198.000	3.5
629.4517	24.01	-4.48	68843.510	3.5	84725.960	3.5
629.4886	20.02	-.02	325467.670	2.0	341349.190	1.0
629.4937	25.02	1.13	216194.050	5.5	232075.440	6.5
629.5220	44.00	-.66	23229.366	0.0	39114.434	0.0
629.5236	22.00	-4.37	386.874	4.0	16267.510	5.0
629.5288	22.00	-4.86	14105.680	3.0	29986.185	3.0
629.5361	10.01	-3.50	301948.000	1.5	317828.320	.5
629.5445	18.01	-2.01	192712.000	1.5	208592.110	.5
629.5575	18.01	-1.96	192712.000	1.5	208591.780	1.5
629.5893	23.00	-1.22	23519.840	4.5	39398.820	3.5
629.5963	22.00	-4.68	14028.470	2.0	29907.273	2.0
629.6090	57.01	-1.47	10001.532	0.0	25884.405	0.0
629.6178	29.01	-1.88	120875.850	2.0	136754.110	2.0
629.6190	28.01	-4.35	115956.710	2.5	131834.940	2.5
629.6218	25.00	-3.63	45060.810	3.5	60938.970	4.5
629.6448	24.00	-2.94	33934.880	3.0	49812.460	3.0
629.6527	23.00	-1.61	2424.890	4.5	18302.270	3.5
629.6606	22.00	-3.62	0.000	2.0	15877.180	2.0
629.6753	24.00	-3.15	33935.650	2.0	49812.460	3.0
629.6824	24.00	-4.64	25106.340	3.0	40982.970	2.0
629.6826	28.00	-2.28	42653.723	2.0	58530.350	3.0
629.6867	18.00	-3.80	107496.463	1.0	123372.987	2.0
629.6939	27.00	-3.67	16778.160	2.5	32654.500	2.5
629.7383	9.02	-3.24	416185.420	2.5	432060.640	1.5
629.7487	29.01	-4.02	114511.440	1.0	130386.400	2.0
629.7677	21.00	-1.67	18515.770	1.5	34390.250	.5
629.7797	26.00	-2.89	17927.378	1.0	33801.555	2.0
629.7840	10.01	-.37	302961.070	1.5	318835.140	2.5
629.7889	14.00	-3.51	47351.554	2.0	63225.500	2.0
629.8067	22.00	-4.47	13981.750	1.0	29855.248	1.0
629.8118	24.00	-3.50	37244.170	4.0	53117.540	4.0
629.8245	24.01	-3.48	74718.050	1.5	90591.100	2.5
629.8288	7.00	-1.53	96864.020	2.5	112736.961	1.5
629.8324	24.01	-3.73	54444.190	3.5	70317.040	2.5
629.8326	37.00	-1.08	12816.545	0.0	28693.780	0.0
629.8420	60.01	-2.21	7420.492	0.0	23297.490	0.0
629.8431	15.00	-4.28	66360.120	1.5	82232.700	2.5
629.8439	10.01	-1.00	302307.750	2.5	318180.310	2.5
629.8495	24.00	-3.68	33762.740	6.0	49635.160	6.0
629.8518	28.01	-.14	103025.580	2.5	118897.940	2.5
629.8530	92.00	-1.85	3790.903	0.0	19667.623	0.0
629.8546	23.01	-3.80	20617.050	2.0	36489.340	1.0
629.8614	10.01	-2.06	302307.750	2.5	318179.870	1.5
629.8697	23.00	-1.92	21603.170	4.5	37475.080	3.5
629.8701	23.00	-2.12	17116.920	3.5	32988.820	3.5
629.8713	17.00	-2.57	83894.037	3.5	99765.906	2.5
629.8747	28.00	-2.78	42653.723	2.0	58525.507	1.0
629.8757	24.01	-4.73	31168.780	3.5	47040.540	2.5
629.8901	22.00	-4.62	25643.695	3.0	41515.090	4.0
629.9026	10.01	.23	312824.820	3.5	328695.900	2.5
629.9034	10.01	-1.03	312824.840	2.5	328695.900	2.5
629.9042	10.01	.08	312824.840	2.5	328695.880	1.5
629.9149	28.01	-3.86	115785.060	1.5	131655.830	.5
629.9224	37.00	-2.03	12816.545	0.0	28691.516	0.0
629.9510	58.01	-.68	15163.614	0.0	31037.865	0.0
629.9540	72.00	-.46	26133.037	0.0	42007.212	0.0
629.9578	14.00	-2.83	63794.310	2.0	79664.000	1.0
629.9599	14.00	-2.00	48264.292	3.0	64133.930	4.0
629.9610	24.00	-3.18	31009.000	3.0	46878.610	3.0
629.9660	40.00	-.80	12259.943	0.0	28133.816	0.0
629.9733	28.01	-3.28	99340.550	3.5	115209.850	3.5
629.9741	26.02	-4.60	66464.640	3.0	82333.920	3.0
629.9770	63.00	-.22	4758.794	0.0	20632.389	0.0
629.9777	28.00	-4.47	42656.317	1.0	58525.507	1.0
629.9932	13.01	-4.55	123418.000	3.0	139286.800	2.0
630.0241	24.00	-4.45	37205.880	3.0	53073.900	3.0
630.0336	28.00	-1.87	34408.574	1.0	50276.354	0.0
630.0471	25.02	.82	215520.220	2.5	231387.660	3.5
630.0674	25.00	-3.84	38351.780	.5	54218.710	1.5
630.0698	21.01	-1.78	12154.340	2.0	28021.210	2.0
630.0797	22.00	-2.23	32857.721	3.0	48724.340	2.0
630.0896	29.01	.70	123016.630	3.0	138883.000	4.0
630.1059	24.00	-4.12	25177.390	4.0	41043.350	3.0
630.1234	22.00	-3.15	30039.211	5.0	45904.730	6.0
630.1282	22.00	-7.50	14105.680	3.0	29971.078	4.0
630.1321	27.00	-7.09	8460.810	2.5	24326.110	3.5
630.1325	23.00	-1.87	20830.200	.5	36695.490	.5
630.1460	28.01	-4.28	120189.550	.5	136054.500	1.5
630.1510	26.00	-1.04	29469.010	2.0	45333.834	2.0
630.1611	28.01	-3.16	121090.710	.5	136955.280	.5
630.1624	14.00	-3.21	48020.074	1.0	63884.610	1.0
630.1750	42.00	-1.30	23955.283	0.0	39823.891	0.0
630.1794	13.02	-1.65	201375.200	2.5	217239.310	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
630.1794	13.02	-.35	201375.200	2.5	217239.310	3.5
630.1937	13.02	-.50	201375.560	1.5	217239.310	2.5
630.1941	15.01	-2.75	87805.000	2.0	103668.740	3.0
630.2036	23.00	-2.73	15000.840	5.5	30864.340	5.5
630.2120	28.01	-2.32	120903.200	3.5	136766.490	2.5
630.2124	9.02	-2.01	426431.030	.5	442294.310	1.5
630.2155	24.01	-3.98	73406.680	.5	89269.880	.5
630.2400	62.01	-1.63	12501.916	0.0	28368.887	0.0
630.2442	28.01	.13	117872.780	2.5	133735.260	2.5
630.2503	26.00	-1.50	29732.721	1.0	45595.046	0.0
630.2553	28.01	.23	117872.780	2.5	133734.980	3.5
630.2596	20.02	-1.95	327922.870	2.0	343784.960	1.0
630.2656	28.00	-3.75	42767.900	3.0	58629.840	2.0
630.2683	17.00	-2.21	84485.309	1.5	100347.182	2.5
630.2700	28.01	-.01	106283.160	2.5	122144.990	2.5
630.2759	23.00	-5.08	14910.040	3.5	30771.720	4.5
630.2771	28.00	-3.43	42767.900	3.0	58629.550	3.0
630.2862	22.00	-2.83	29971.078	4.0	45832.500	5.0
630.2891	17.00	-4.02	85735.091	1.5	101596.440	.5
630.3137	28.01	-4.75	118809.340	1.5	134670.070	1.5
630.3204	25.02	-.01	216403.860	2.5	232264.420	3.5
630.3240	74.00	-1.61	19115.832	0.0	34980.689	0.0
630.3390	22.00	-2.51	25227.217	3.0	41087.310	3.0
630.3410	63.01	-1.68	10243.505	0.0	26107.934	0.0
630.3420	75.00	-1.27	25971.721	0.0	41836.125	0.0
630.3669	28.01	-4.68	100609.010	2.5	116468.400	1.5
630.3757	22.00	-1.76	11639.804	3.0	27498.975	3.0
630.3868	28.01	-3.58	116261.810	.5	132120.700	.5
630.3904	7.00	-2.21	96750.810	1.5	112609.612	1.5
630.4246	24.01	-3.26	73411.940	1.5	89269.880	.5
630.4250	90.01	-2.78	8549.697	0.0	24412.012	0.0
630.4262	10.01	-.35	303237.910	1.5	319095.810	2.5
630.4325	23.00	-.35	26505.880	2.5	42363.620	3.5
630.4340	40.00	-2.70	4355.506	0.0	20217.595	0.0
630.4390	17.00	-2.89	85735.091	1.5	101592.670	.5
630.4691	28.01	-4.58	121042.520	1.5	136899.340	2.5
630.4695	28.01	-4.29	121042.520	1.5	136899.330	1.5
630.4715	28.01	-1.32	121042.570	1.5	136899.330	1.5
630.4789	10.00	-1.41	134459.287	1.0	150315.861	2.0
630.4882	26.02	-3.21	182480.720	2.0	198337.060	3.0
630.4922	17.00	-2.17	84132.262	2.5	99988.501	2.5
630.4985	22.01	-6.56	15257.530	4.5	31113.610	3.5
630.5150	64.01	-1.25	10485.478	0.0	26345.529	0.0
630.5260	59.01	-1.56	10888.765	0.0	26748.539	0.0
630.5288	28.01	-3.14	120199.180	1.5	136054.500	1.5
630.5327	26.01	-2.30	50157.610	4.5	66012.830	4.5
630.5427	16.01	-.48	114279.110	3.5	130134.080	2.5
630.5460	57.01	-3.40	1935.780	0.0	17795.051	0.0
630.5467	24.00	-4.39	33762.740	6.0	49617.610	5.0
630.5494	10.01	-.83	312810.670	4.5	328665.470	4.5
630.5506	17.00	-2.94	84648.100	2.5	100502.871	1.5
630.5510	10.01	-2.30	312810.710	5.5	328665.470	4.5
630.5554	10.01	-1.78	312810.670	4.5	328665.320	5.5
630.5570	10.01	-.48	312810.710	5.5	328665.320	5.5
630.5646	24.01	-1.71	59130.510	1.5	74984.930	1.5
630.5661	21.00	-2.71	168.340	2.5	16022.720	2.5
630.5884	10.01	-1.98	312811.650	3.5	328665.470	4.5
630.5884	10.01	-.90	312811.650	4.5	328665.470	4.5
630.5896	29.01	-.04	120919.410	1.0	136773.200	1.0
630.5944	10.01	-2.82	312811.650	4.5	328665.320	5.5
630.5995	10.01	-1.03	302307.750	2.5	318161.290	2.5
630.6035	21.00	-3.90	168.340	2.5	16021.780	1.5
630.6115	10.01	-.14	302307.750	2.5	318160.990	3.5
630.6127	25.01	-4.19	85636.100	6.0	101489.310	5.0
630.6274	26.02	-3.55	182480.720	2.0	198333.560	2.0
630.6282	10.01	-1.62	312843.080	1.5	328695.900	2.5
630.6290	10.01	-.66	312843.080	1.5	328695.880	1.5
630.6310	10.01	-.48	312843.150	2.5	328695.900	2.5
630.6318	10.01	-1.50	312843.150	2.5	328695.880	1.5
630.6366	24.00	-3.68	31106.370	4.0	46958.980	5.0
630.6421	15.00	-4.71	66343.330	.5	82195.800	1.5
630.6457	23.00	-2.69	15688.800	2.5	31541.180	3.5
630.6461	23.00	-3.08	21646.390	3.5	37498.760	2.5
630.6513	25.00	-2.24	46901.130	2.5	62753.370	2.5
630.6803	28.01	-.49	103025.580	2.5	118877.090	1.5
630.6827	21.00	-1.84	18571.400	2.5	34422.850	1.5
630.6911	23.00	-2.34	26182.600	.5	42033.840	1.5
630.7002	28.01	-3.70	120203.490	2.5	136054.500	1.5
630.7060	62.01	-1.82	8469.040	0.0	24324.288	0.0
630.7070	24.00	-2.18	31377.960	4.0	47228.800	5.0
630.7094	15.00	-2.14	65450.020	1.5	81300.800	1.5
630.7271	26.00	-4.20	42859.756	2.0	58710.090	3.0
630.7293	24.00	-3.81	31028.330	2.0	46878.610	3.0
630.7365	26.00	-4.75	35611.608	3.0	51461.707	4.0
630.7372	28.01	-3.59	117763.910	1.5	133613.990	1.5
630.7519	26.01	-6.93	22810.330	3.5	38660.040	3.5
630.7531	24.00	-4.26	31055.350	5.0	46905.030	4.0
630.7643	10.01	-.77	302307.750	2.5	318157.150	3.5
630.7652	18.00	-1.87	106237.597	2.0	122086.974	2.0
630.7700	75.00	.37	28714.077	0.0	44567.716	0.0
630.7881	26.00	-4.67	29371.860	3.0	45220.662	3.0
630.7933	28.01	-1.96	121050.660	2.5	136899.330	1.5
630.7935	26.00	-4.40	35856.386	2.0	51705.052	2.0
630.7989	28.01	-1.57	103025.580	2.5	118874.110	3.5
630.8150	70.01	-1.09	32908.268	0.0	48760.776	0.0
630.8196	22.01	-4.76	15265.600	3.5	31113.610	3.5
630.8387	22.00	-1.72	31190.631	2.0	47038.160	3.0
630.8460	22.00	-5.43	13981.750	1.0	29829.097	0.0
630.8467	29.01	-2.83	122745.770	2.0	138593.100	1.0
630.8534	26.02	-2.44	182486.400	1.0	198333.560	2.0
630.8825	14.00	-2.95	47284.061	1.0	63130.490	1.0
630.9025	26.00	-4.28	35257.309	4.0	51103.237	5.0
630.9072	23.00	-5.76	10892.500	3.5	26738.310	4.5
630.9154	18.00	-3.13	106087.305	1.0	121932.908	1.0
630.9219	28.01	-2.61	99154.810	4.5	115000.250	3.5
630.9580	73.00	-1.64	10888.765	0.0	26737.680	0.0
630.9649	26.01	-3.82	64040.960	3.5	79885.320	2.5
630.9697	23.00	-1.43	20767.570	3.5	36611.810	2.5
630.9749	28.01	-1.90	94729.250	2.5	110573.360	2.5

WAVELENGTH	ELFM	LOGGF	ELO	JLO	EUP	JUP
630.9761	25.00	-2.84	34250.520	5.5	50094.600	6.5
630.9781	10.01	-3.08	302961.070	1.5	318805.100	2.5
630.9912	30.02	-1.17	218540.300	2.0	234384.000	3.0
630.9916	21.01	-1.52	12074.000	0.0	27917.690	1.0
631.0008	26.02	-3.83	183456.690	3.0	199300.150	2.0
631.0115	10.01	-1.25	302961.070	1.5	318804.260	1.5
631.0284	14.00	-1.82	48102.323	2.0	63945.090	3.0
631.0490	60.00	-.90	2339.068	0.0	18185.698	0.0
631.0523	26.00	-4.68	23783.617	5.0	39625.784	4.0
631.0593	25.00	-2.81	45060.810	3.5	60902.800	3.5
631.0804	28.01	-4.84	118828.610	2.5	134670.070	1.5
631.0804	28.01	-4.78	118314.820	2.5	134156.280	1.5
631.0865	2.01	-.82	421353.130	0.0	437198.818	0.0
631.0920	57.01	-.84	21212.928	0.0	37058.478	0.0
631.0964	25.02	.04	215520.220	2.5	231361.280	2.5
631.1127	10.01	-3.91	312824.820	3.5	328665.470	4.5
631.1231	29.01	-.03	121078.960	3.0	136919.350	3.0
631.1289	22.00	-2.55	11639.804	3.0	27480.047	3.0
631.1508	26.00	-3.30	22838.320	2.0	38678.015	2.0
631.1517	23.00	.45	26738.310	4.5	42577.980	5.5
631.1850	72.00	-.88	22342.133	0.0	38185.349	0.0
631.1893	10.01	-2.98	302989.820	1.5	318828.550	2.5
631.2127	10.01	-4.98	305582.270	.5	321420.410	1.5
631.2238	22.00	-1.78	11776.806	4.0	27614.667	4.0
631.2251	28.01	-.71	105861.190	2.5	121699.020	1.5
631.2275	24.00	-4.58	31009.000	3.0	46846.770	3.0
631.2394	29.01	.16	123304.630	1.0	139142.100	2.0
631.2625	16.01	-.74	114804.110	2.5	130641.000	1.5
631.2757	18.01	-2.14	194822.100	3.5	210658.660	2.5
631.3020	40.00	-.37	12663.231	0.0	28503.510	0.0
631.3036	27.00	-.96	29269.730	4.5	45105.590	3.5
631.3108	15.00	-3.63	66360.120	1.5	82195.800	1.5
631.3183	23.02	-.33	146549.620	4.5	162385.110	3.5
631.3219	24.00	-2.34	31393.400	5.0	47228.800	5.0
631.3223	28.01	-3.83	115785.060	1.5	131620.450	1.5
631.3255	26.01	-4.97	62689.960	2.5	78525.270	2.5
631.3283	25.02	1.02	215917.520	4.5	231752.760	5.5
631.3284	22.00	-3.07	18145.400	2.0	33980.639	2.0
631.3498	29.01	-1.58	120919.410	1.0	136754.110	2.0
631.3628	9.00	-1.51	117164.006	2.5	132998.380	1.5
631.3670	28.01	-2.30	115108.090	2.5	130942.360	1.5
631.3689	10.00	-1.91	150772.112	1.0	166606.333	0.0
631.3694	28.01	-4.92	115108.090	2.5	130942.300	1.5
631.3780	63.00	-.97	13711.778	0.0	29550.151	0.0
631.3809	7.01	-2.00	206910.240	0.0	222744.160	1.0
631.3861	10.01	-3.70	301948.000	1.5	317781.790	1.5
631.3929	23.01	-7.24	19112.930	4.0	34946.550	4.0
631.4077	22.00	-1.60	27025.652	4.0	42858.900	3.0
631.4296	28.01	-4.79	119773.600	6.5	135606.300	6.5
631.4428	23.00	-3.18	26344.940	4.5	42177.310	4.5
631.4460	28.01	.45	104081.040	4.5	119913.330	4.5
631.4460	14.02	-.22	214532.170	1.0	230364.460	0.0
631.4467	18.00	-4.53	108722.668	0.0	124554.939	1.0
631.4475	28.01	-3.40	120199.180	1.5	136031.430	2.5
631.4505	22.00	-2.42	31205.985	3.0	47038.160	3.0
631.4511	27.00	-.95	36329.860	2.5	52162.020	3.5
631.4567	10.01	.52	312833.450	5.5	328665.470	4.5
631.4627	10.01	-1.29	312833.450	5.5	328665.320	5.5
631.4635	10.01	.59	312833.470	6.5	328665.320	5.5
631.4653	28.00	-2.10	15609.861	2.0	31441.665	2.0
631.4659	28.00	-.76	33500.854	3.0	49332.643	4.0
631.4710	40.00	-1.93	7985.094	0.0	23821.134	0.0
631.4719	24.00	-4.41	37205.880	3.0	53037.520	2.0
631.4731	28.01	-3.44	120222.890	1.5	136054.500	1.5
631.4855	9.00	-1.75	117391.950	.5	133223.250	.5
631.4901	22.00	-3.10	26892.926	3.0	42724.110	2.0
631.5058	25.00	-1.63	34250.520	5.5	50081.310	5.5
631.5307	26.00	-.94	33412.706	3.0	49242.872	3.0
631.5383	26.00	-2.36	33412.706	3.0	49242.680	2.0
631.5397	18.01	-2.68	194800.180	4.5	210630.120	3.5
631.5481	24.00	-3.95	37244.170	4.0	53073.900	3.0
631.5652	29.01	-3.81	130386.400	2.0	146215.700	1.0
631.5712	27.00	-3.31	20500.710	1.5	36329.860	2.5
631.5814	26.00	-1.37	32873.623	4.0	48702.518	4.0
631.5824	24.00	-1.53	31393.400	5.0	47222.270	6.0
631.5896	23.00	-2.82	21646.390	3.5	37475.080	3.5
631.6195	28.01	-3.28	120203.490	2.5	136031.430	2.5
631.6271	29.01	-3.47	118532.150	2.0	134359.900	1.0
631.6287	28.01	-3.74	121699.020	1.5	137526.730	2.5
631.6307	26.01	-7.31	23031.300	1.5	38858.960	2.5
631.6319	27.00	-2.49	36875.130	1.5	52702.760	1.5
631.6550	25.00	-4.47	45130.160	4.5	60957.210	3.5
631.6574	28.00	-1.44	33500.854	3.0	49327.845	2.0
631.6659	22.00	-4.80	14028.470	2.0	29855.248	1.0
631.6754	21.00	-.74	29189.830	4.5	45016.370	3.5
631.6917	28.01	-2.28	121385.800	1.5	137211.930	.5
631.7081	25.00	-3.43	45130.160	4.5	60955.880	4.5
631.7153	24.00	-2.18	31364.330	3.0	47189.870	4.0
631.7190	64.00	-2.10	967.890	0.0	16797.713	0.0
631.7416	26.01	-2.42	50187.950	3.5	66012.830	4.5
631.7456	27.00	-3.48	31699.690	4.5	47524.470	4.5
631.7537	22.00	-1.98	33090.492	1.0	48915.070	2.0
631.7542	14.00	-2.68	48020.074	1.0	63844.640	0.0
631.7592	25.01	-4.36	55115.800	2.0	70940.240	2.0
631.7676	24.00	-3.16	46846.770	3.0	62671.000	4.0
631.7831	25.02	.92	215663.500	3.5	231487.340	4.5
631.7915	23.00	-3.65	19189.260	1.5	35012.910	.5
631.7975	26.01	-4.07	44446.890	3.5	60270.370	3.5
631.8023	26.00	-2.63	19788.248	4.0	35611.608	3.0
631.8054	22.00	-2.58	11531.760	2.0	27355.042	1.0
631.8227	20.02	-1.71	327962.110	1.0	343784.960	1.0
631.8255	8.01	-2.83	232602.570	.5	248425.350	.5
631.8260	57.00	-1.45	7985.094	0.0	23812.236	0.0
631.8295	23.00	-2.07	20789.130	2.5	36611.810	2.5
631.8330	72.00	-1.39	19196.490	0.0	35023.457	0.0
631.8370	78.00	.08	36618.514	0.0	52445.381	0.0
631.8398	23.00	-2.51	14949.300	4.5	30771.720	4.5
631.8422	28.01	-3.37	115120.000	2.5	130942.360	1.5
631.8446	28.01	-3.20	115120.000	2.5	130942.300	1.5
WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
631.8464	28.00	-4.77	40361.254	3.0	56183.510	4.0
631.8487	14.00	-2.63	49060.601	1.0	64882.800	2.0
631.8502	28.01	-3.68	115209.850	3.5	131032.010	2.5
631.8538	25.00	-3.13	34250.520	5.5	50072.590	4.5
631.8546	21.00	-.63	29303.520	5.5	45125.570	4.5
631.8558	27.00	-2.27	30102.960	2.5	45924.980	3.5
631.8580	63.00	-.46	19519.120	0.0	35345.461	0.0
631.8582	7.00	-3.17	96787.650	1.5	112609.612	1.5
631.8606	28.01	-1.04	121456.320	1.5	137278.220	1.5
631.8646	26.01	-5.16	22637.190	4.5	38458.990	4.5
631.8717	12.00	-1.73	41197.403	1.0	57019.025	2.0
631.8738	26.02	-3.99	186378.940	4.0	202200.510	3.0
631.8798	7.01	-2.15	187437.560	1.0	203258.980	2.0
631.9137	23.00	-1.95	26249.480	1.5	42070.050	2.5
631.9237	12.00	-1.95	41197.403	1.0	57017.724	1.0
631.9258	28.00	-3.02	42767.900	3.0	58588.168	3.0
631.9281	28.01	-4.81	121699.020	1.5	137519.230	2.5
631.9445	23.00	-3.00	26344.940	4.5	42164.740	3.5
631.9494	12.00	-2.43	41197.403	1.0	57017.078	0.0
631.9530	45.00	-1.86	12663.231	0.0	28487.193	0.0
631.9568	18.01	-3.39	188766.150	2.5	204585.640	2.5
631.9741	25.02	-1.60	179152.090	3.5	194971.150	2.5
631.9828	28.01	-.03	105499.050	3.5	121317.890	3.5
631.9884	13.01	-1.91	123468.100	3.0	139286.800	2.0
631.9988	24.00	-3.46	31028.330	2.0	46846.770	3.0
632.0095	22.00	-3.73	31628.668	5.0	47446.840	6.0
632.0204	13.01	-.22	133435.000	2.0	149252.900	3.0
632.0324	24.00	-3.72	30965.460	3.0	46783.060	4.0
632.0390	57.01	-2.60	1371.178	0.0	17192.986	0.0
632.0404	15.00	-3.01	65585.000	2.5	81402.400	2.5
632.0416	27.00	-.29	35450.560	3.5	51267.930	4.5
632.0580	23.00	-3.33	15724.220	3.5	31541.180	3.5
632.0608	26.01	-4.67	83871.310	4.5	99688.200	3.5
632.0787	25.00	-3.82	35114.980	2.5	50931.420	2.5
632.0867	21.01	-1.71	12101.450	1.0	27917.690	1.0
632.1127	25.01	-3.94	85673.720	4.0	101489.310	5.0
632.1239	23.00	-.45	26738.310	4.5	42553.620	4.5
632.1287	24.00	-3.84	46846.770	3.0	62661.960	3.0
632.1350	40.00	-1.20	12259.943	0.0	28079.349	0.0
632.1475	25.02	-.51	176100.710	.5	191915.430	.5
632.1499	7.00	-2.74	96750.810	1.5	112565.470	.5
632.1581	26.00	-2.70	33412.706	3.0	49227.160	3.0
632.1669	17.00	-1.32	84688.637	.5	100502.871	1.5
632.1855	28.01	-4.65	121146.980	2.5	136960.750	2.5
632.1900	75.00	.37	28714.077	0.0	44532.106	0.0
632.1971	28.01	-4.80	118828.610	2.5	134642.090	3.5
632.2043	21.00	-.87	29096.200	3.5	44909.500	2.5
632.2043	14.00	-3.70	47284.061	1.0	63097.360	1.0
632.2136	26.00	-3.06	38678.015	2.0	54491.080	3.0
632.2164	28.00	-2.70	33500.854	3.0	49313.851	3.0
632.2210	28.01	-3.37	121146.980	2.5	136959.860	2.5
632.2363	13.01	-1.27	133440.400	3.0	149252.900	3.0
632.2363	13.01	-.32	133440.400	3.0	149252.900	4.0
632.2363	13.01	-.50	133440.400	3.0	149252.900	4.0
632.2502	23.00	-2.42	26352.590	2.5	42164.740	3.5
632.2522	28.01	-3.23	119833.000	5.5	135645.100	5.5
632.2598	24.00	-2.38	31377.960	4.0	47189.870	4.0
632.2611	9.02	-1.04	442147.190	2.5	457959.070	3.5
632.2691	26.00	-2.42	20874.482	3.0	36686.159	4.0
632.2798	28.01	-3.42	121125.410	4.5	136936.820	3.5
632.2815	9.02	-1.56	426558.910	1.5	442370.280	.5
632.2934	27.00	-1.83	29294.520	3.5	45105.590	3.5
632.3070	28.01	-2.22	118803.820	6.5	134614.550	5.5
632.3082	25.01	-3.35	86869.390	6.0	102680.090	5.0
632.3150	25.02	-3.72	177687.540	3.5	193498.070	3.5
632.3266	23.00	-4.37	22121.170	4.5	37931.410	5.5
632.3394	28.01	-3.37	121042.520	1.5	136852.440	1.5
632.3394	28.01	-4.60	120144.170	2.5	135954.090	3.5
632.3540	42.00	-.61	30004.597	0.0	45818.524	0.0
632.3690	18.01	-2.03	194800.180	4.5	210609.360	3.5
632.3726	18.01	-1.04	194800.180	4.5	210609.270	4.5
632.3746	22.00	-7.36	14105.680	3.0	29914.720	3.0
632.3838	25.00	-2.71	45130.160	4.5	60938.970	4.5
632.3910	18.01	-4.06	186340.480	1.5	202149.110	2.5
632.3914	28.01	-4.98	121090.710	.5	136899.330	1.5
632.3946	28.01	-3.75	120222.890	1.5	136031.430	2.5
632.3990	28.01	-.73	104081.040	4.5	119889.470	5.5
632.4018	28.01	-2.82	116312.340	1.5	132120.700	.5
632.4070	25.02	-3.94	124754.800	3.5	140563.030	3.5
632.4097	22.00	-3.61	26803.417	2.0	42611.580	1.0
632.4122	25.02	.51	216670.580	4.5	232478.680	4.5
632.4154	18.01	-1.14	194822.100	3.5	210630.120	3.5
632.4218	10.01	-4.92	306262.770	1.5	322070.630	2.5
632.4250	26.00	-4.60	34843.980	6.0	50651.760	7.0
632.4358	18.01	-1.68	194800.180	4.5	210607.690	4.5
632.4389	17.00	-1.90	85917.937	.5	101725.370	1.5
632.4394	10.01	-3.63	301855.710	2.5	317663.130	1.5
632.4414	18.01	.06	194800.180	4.5	210607.550	5.5
632.4499	22.00	-1.40	29914.720	3.0	45721.878	4.0
632.4626	23.00	-1.31	17181.980	4.5	32988.820	3.5
632.4642	25.00	-3.21	45013.550	2.5	60820.350	2.5
632.4658	24.00	-4.61	31987.060	4.0	47793.820	5.0
632.4694	9.01	-2.75	254701.620	3.0	270506.290	2.0
632.4706	27.00	-4.17	18389.570	1.5	34196.210	1.5
632.4730	22.00	-3.67	14105.680	3.0	29912.262	3.0
632.4914	28.01	-2.23	106369.300	1.5	122175.420	2.5
632.4928	22.00	-4.24	25386.334	4.0	41194.420	3.0
632.4986	22.00	-7.00	6598.749	2.0	22404.690	3.0
632.5062	26.02	-4.73	183456.690	3.0	199262.440	3.0
632.5080	73.00	-2.55	5968.656	0.0	21778.733	0.0
632.5122	13.01	-3.07	133447.300	4.0	149252.900	3.0
632.5122	13.01	-1.51	133447.300	4.0	149252.900	4.0
632.5122	13.01	-1.65	133447.300	4.0	149252.900	4.0
632.5122	13.01	.02	133447.300	4.0	149252.900	5.0
632.5179	22.00	-3.79	170.132	3.0	15975.590	3.0
632.5247	26.02	-3.00	183457.150	4.0	199262.440	3.0
632.5251	18.01	-3.42	189437.690	.5	205242.970	.5
632.5450	29.00	-2.22	46620.047	0.0	62429.199	0.0
632.5523	23.02	-2.58	144772.020	3.5	160576.620	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
632.5910	57.00	-1.49	1048.548	0.0	16856.550	0.0
632.5923	25.02	-2.70	176209.150	1.5	192012.750	1.5
632.5935	25.00	-3.22	45130.160	4.5	60933.730	5.5
632.6151	28.01	-1.72	103025.580	2.5	118828.610	2.5
632.6299	25.02	-2.95	124754.800	3.5	140557.460	4.5
632.6347	29.01	-.67	123016.630	3.0	138819.170	3.0
632.6352	8.01	-3.73	232711.700	.5	248514.230	1.5
632.6352	16.01	-2.42	140318.800	3.5	156121.330	2.5
632.6580	78.00	-1.46	21858.188	0.0	37664.516	0.0
632.6607	28.01	-3.61	54557.050	4.5	70358.940	4.5
632.6712	28.01	-1.05	106283.160	2.5	122084.790	1.5
632.6726	22.00	-5.19	14105.680	3.0	29907.273	2.0
632.6804	23.00	-.96	15062.940	6.5	30864.340	5.5
632.6932	28.01	-4.90	115000.250	3.5	130801.330	4.5
632.6941	17.00	-1.95	85244.330	.5	101045.386	1.5
632.7101	22.00	-2.38	33114.412	2.0	48915.070	2.0
632.7288	21.00	-1.00	29022.870	2.5	44823.060	1.5
632.7316	23.00	-1.37	26604.770	3.5	42404.890	3.5
632.7368	28.01	-3.81	100475.820	3.5	116275.810	3.5
632.7432	24.00	-2.86	46846.770	3.0	62646.600	2.0
632.7444	24.00	-1.83	33040.100	2.0	48839.900	1.0
632.7470	62.01	-1.32	10082.190	0.0	25886.295	0.0
632.7512	9.02	-3.38	416168.300	1.5	431967.930	.5
632.7564	16.01	-4.44	140229.780	2.5	156029.280	1.5
632.7593	28.00	-2.73	13521.352	2.0	29320.782	3.0
632.7705	28.01	-2.32	118442.810	1.5	134241.960	.5
632.7758	22.00	-3.15	29912.262	3.0	45711.280	4.0
632.7789	28.01	-4.77	121161.810	1.5	136960.750	2.5
632.7837	23.00	-2.83	20812.990	1.5	36611.810	2.5
632.8145	28.01	-3.76	121161.810	1.5	136959.860	2.5
632.8165	10.00	-1.42	150858.508	2.0	166656.508	1.0
632.8197	26.01	-6.86	26170.190	5.5	41968.110	5.5
632.8294	24.00	-3.44	41575.100	3.0	57372.780	4.0
632.8398	7.01	-.97	187461.560	2.0	203258.980	2.0
632.8410	18.01	-.87	194861.270	2.5	210658.660	2.5
632.8454	18.01	-2.23	194861.270	2.5	210658.550	1.5
632.8530	28.01	-4.67	106283.160	2.5	122080.250	2.5
632.8778	24.00	-3.50	31393.400	5.0	47189.670	4.0
632.8862	28.01	-4.34	119665.290	2.5	135461.550	2.5
632.9000	8.04	-.24	697170.000	0.0	712970.284	0.0
632.9119	28.01	-1.09	105499.050	3.5	121294.670	4.5
632.9159	24.01	-4.61	32836.840	3.5	48632.360	3.5
632.9203	28.01	-4.20	119833.000	5.5	135628.410	4.5
632.9334	17.00	-2.61	85244.330	.5	101039.413	.5
632.9540	23.00	-4.39	21963.500	3.5	37758.070	4.5
632.9588	24.01	-3.84	74718.050	1.5	90512.500	1.5
632.9692	9.01	-2.27	255498.600	2.0	271292.790	3.0
632.9924	28.01	-3.65	118803.820	6.5	134597.430	5.5
632.9980	28.01	-3.43	121161.810	1.5	136955.280	.5
633.0053	22.00	-1.87	30039.211	5.0	45832.500	5.0
633.0073	9.01	-2.42	255498.600	2.0	271291.640	2.0
633.0093	24.00	-2.70	7593.160	2.0	23386.350	3.0
633.0113	26.00	-3.36	36975.640	3.0	52768.780	4.0
633.0177	28.01	-2.97	118877.090	1.5	134670.070	1.5
633.0310	9.01	-2.64	255498.600	2.0	271291.250	1.0
633.0345	28.01	-2.74	115108.090	2.5	130900.650	2.5
633.0380	28.00	-3.46	42656.317	1.0	58448.790	0.0
633.0389	28.01	-2.49	106007.890	2.5	121800.340	1.5
633.0413	24.00	-3.54	46878.610	3.0	62671.000	4.0
633.0620	44.00	-.56	25326.461	0.0	41122.702	0.0
633.0622	23.00	-2.26	17054.870	2.5	32846.740	2.5
633.0726	9.01	-3.27	254716.680	2.0	270508.290	2.0
633.0798	7.01	-1.36	205350.180	2.0	221141.610	3.0
633.0815	26.00	-2.74	38175.332	3.0	53966.720	2.0
633.0838	23.00	-2.58	20789.130	2.5	36580.460	1.5
633.0875	22.00	-4.54	31489.451	4.0	47280.690	5.0
633.0894	10.00	-1.76	150121.592	1.0	165912.782	1.0
633.0963	22.00	-3.41	18287.560	4.0	34078.580	3.0
633.1255	24.01	-2.47	59130.510	1.5	74920.800	.5
633.1255	28.01	-3.47	114052.040	3.5	129842.330	2.5
633.1350	64.00	.14	17905.969	0.0	33700.389	0.0
633.1436	28.01	-4.31	121146.980	2.5	136936.820	3.5
633.1956	14.00	-4.30	40991.884	1.0	56780.427	1.0
633.1961	26.01	-2.12	50142.930	2.5	65931.460	3.5
633.2085	28.01	-4.70	119656.250	3.5	135444.470	3.5
633.2093	17.01	-1.50	161634.900	2.0	177423.100	1.0
633.2194	28.01	-.27	105439.850	1.5	121227.800	2.5
633.2202	24.01	-4.93	31117.590	2.5	46905.520	1.5
633.2470	18.01	-3.55	194822.100	3.5	210609.360	3.5
633.2507	18.01	-2.67	194822.100	3.5	210609.270	4.5
633.2547	25.01	-7.29	27583.300	4.0	43370.370	3.0
633.2613	22.00	-4.27	13981.750	1.0	29768.655	2.0
633.2635	25.02	-.28	216691.830	5.5	232478.680	4.5
633.2844	18.01	-4.95	174409.830	1.5	190196.160	.5
633.2872	23.02	-2.20	146549.620	4.5	162335.880	3.5
633.2894	9.00	-2.63	117872.916	1.5	133659.120	.5
633.2910	73.00	-2.72	5968.656	0.0	21759.185	0.0
633.2920	24.00	-3.69	41575.100	3.0	57361.240	3.0
633.3004	24.00	-2.45	46905.030	4.0	62690.960	5.0
633.3141	18.01	-.03	194822.100	3.5	210607.690	4.5
633.3228	22.00	-4.07	29971.078	4.0	45756.450	5.0
633.3273	24.00	-3.14	35501.260	3.0	51286.520	2.0
633.3289	27.01	-4.34	69696.970	3.0	85482.190	4.0
633.3297	17.00	-2.65	85442.430	1.5	101227.630	.5
633.3373	9.01	-4.33	254723.280	1.0	270508.290	2.0
633.3582	28.01	-4.28	118874.110	3.5	134658.600	4.5
633.3634	23.00	-2.55	26249.480	1.5	42033.840	1.5
633.3658	23.00	-2.56	14910.040	3.5	30694.340	3.5
633.3750	64.00	-1.61	6452.602	0.0	22241.037	0.0
633.3798	25.00	-.69	47299.290	.5	63083.240	1.5
633.3867	18.01	-4.33	189437.690	.5	205221.470	1.5
633.3875	28.01	-2.18	103025.580	2.5	118809.340	1.5
633.3967	7.01	-2.75	210705.260	2.0	226488.790	3.0
633.3987	23.02	-1.98	146139.800	2.5	161923.280	2.5
633.4039	24.00	-4.70	46878.610	3.0	62661.960	3.0
633.4056	18.01	-4.76	186470.280	1.5	202253.590	1.5
633.4333	22.00	-2.38	29907.273	2.0	45689.890	3.0
633.4352	28.01	-3.87	120203.490	2.5	135986.060	3.5
633.4368	28.01	-3.37	120271.970	2.5	136054.500	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
633.4428	10.00	-.31	134041.840	2.0	149824.221	2.0
633.4440	77.00	-2.20	16534.792	0.0	32321.507	0.0
633.4465	14.00	-2.68	48102.323	2.0	63884.610	1.0
633.4493	25.02	-.64	176390.670	2.5	192172.890	2.5
633.4505	28.01	-4.42	121178.560	3.5	136960.750	2.5
633.4525	25.01	-7.56	27588.230	3.0	43370.370	3.0
633.4625	25.00	-3.52	44978.980	1.5	60760.870	1.5
633.4802	25.02	-.20	216283.580	3.5	232065.030	2.5
633.4806	26.02	-2.35	183431.280	5.0	199212.720	4.0
633.4846	25.01	-8.72	27589.030	2.0	43370.370	3.0
633.4862	28.01	-2.72	121178.560	3.5	136959.860	2.5
633.4878	28.01	-3.81	120250.170	3.5	136031.430	2.5
633.5018	8.02	-3.52	313801.070	0.0	329581.980	1.0
633.5022	28.00	-2.84	43258.792	4.0	59039.693	4.0
633.5022	17.00	-1.42	85442.430	1.5	101223.330	2.5
633.5143	11.02	-4.73	444825.000	2.5	460605.600	1.5
633.5235	21.00	-7.02	14926.240	2.5	30706.610	1.5
633.5337	26.00	-2.46	17726.985	2.0	33507.102	3.0
633.5605	28.01	-3.29	99340.550	3.5	115120.000	2.5
633.5633	7.01	-1.87	210705.260	2.0	226484.640	2.0
633.5685	28.01	-4.10	118803.820	6.5	134583.070	6.5
633.5701	6.00	-2.37	70743.950	1.0	86523.160	0.0
633.5705	13.01	-.56	110087.500	2.0	125866.700	1.0
633.5725	24.00	-3.01	38537.680	5.0	54316.830	6.0
633.5781	28.01	-2.96	119656.250	3.5	135435.260	4.5
633.5820	63.00	-.56	12985.861	0.0	28769.138	0.0
633.5825	19.02	-.25	225051.000	2.5	240829.900	3.5
633.5931	28.00	-4.56	40484.282	2.0	56262.920	3.0
633.6030	24.00	-3.96	30858.820	2.0	46637.210	3.0
633.6102	22.00	-2.50	11639.804	3.0	27418.015	2.0
633.6120	44.00	-1.07	22422.791	0.0	38205.320	0.0
633.6151	28.01	-2.95	100309.290	5.5	116087.380	4.5
633.6227	24.01	-3.73	32854.460	4.5	48632.360	3.5
633.6259	7.00	-2.29	96787.650	1.5	112565.470	.5
633.6336	22.00	-3.58	29912.262	3.0	45689.890	3.0
633.6340	64.00	-1.58	6694.574	0.0	22476.555	0.0
633.6420	7.01	-.74	210705.260	2.0	226482.680	3.0
633.6432	9.02	-.15	425390.010	.5	441167.400	.5
633.6833	26.00	-1.17	29732.721	1.0	45509.112	1.0
633.6854	10.01	-2.49	302425.870	1.5	318202.210	1.5
633.7099	10.01	-2.08	302425.870	1.5	318201.600	.5
633.7115	28.01	.31	106369.300	1.5	122144.990	2.5
633.7127	18.01	-2.18	194883.000	3.5	210658.660	2.5
633.7183	6.00	-2.45	70743.950	1.0	86519.470	1.0
633.7263	24.00	-2.80	33762.740	6.0	49538.060	5.0
633.7436	28.01	-2.65	100010.170	.5	115785.060	1.5
633.7650	22.00	-2.01	33085.153	0.0	48859.510	1.0
633.7653	17.00	-2.06	83894.037	3.5	99668.388	3.5
633.7854	26.01	-4.64	50157.610	4.5	65931.460	3.5
633.7946	27.00	-1.42	30102.960	2.5	45876.580	2.5
633.7987	23.00	-4.74	21841.450	2.5	37614.970	3.5
633.8075	28.01	-2.48	119833.000	5.5	135606.300	6.5
633.8100	72.00	-2.24	10485.478	0.0	26263.077	0.0
633.8107	25.02	-1.14	179339.590	2.5	195112.810	3.5
633.8340	25.00	-2.58	45130.160	4.5	60902.800	3.5
633.8528	22.00	-3.47	30060.328	4.0	45832.500	5.0
633.8545	28.01	-3.28	118897.940	2.5	134670.070	1.5
633.8873	26.00	-2.33	38678.015	2.0	54449.330	1.0
633.8975	10.01	-3.40	302057.260	.5	317828.320	.5
633.8995	23.00	-4.50	20767.570	3.5	36538.580	4.5
633.9047	23.00	-1.05	15000.840	5.5	30771.720	4.5
633.9110	28.00	-.69	33500.854	3.0	49271.578	3.0
633.9204	24.00	-2.09	31355.210	2.0	47125.700	3.0
633.9216	23.00	-4.40	15770.720	4.5	31541.180	3.5
633.9405	7.01	-4.30	187091.370	2.0	202861.360	3.0
633.9421	28.01	-2.39	121125.410	4.5	136895.360	3.5
633.9441	15.00	-2.26	64239.500	.5	80009.400	.5
633.9664	22.00	-4.24	12118.394	4.0	27887.740	3.0
633.9711	23.00	-4.39	26344.940	4.5	42114.170	3.5
633.9796	22.00	-2.12	33090.492	1.0	48859.510	1.0
633.9864	18.01	-.57	194861.270	2.5	210630.120	3.5
633.9892	18.01	-3.36	194861.270	2.5	210630.050	2.5
633.9962	26.00	-4.86	27394.676	3.0	43163.282	4.0
633.9968	9.02	.18	425390.010	.5	441158.600	1.5
634.0032	28.01	-4.49	121192.320	3.5	136960.750	2.5
634.0085	17.01	-1.56	161654.800	1.0	177423.100	1.0
634.0105	8.01	-2.90	232745.980	1.5	248514.230	1.5
634.0201	23.00	.04	26738.310	4.5	42506.320	4.5
634.0346	27.00	-7.14	13795.520	2.5	29563.170	1.5
634.0360	40.00	-1.50	12663.231	0.0	28435.206	0.0
634.0366	30.02	-1.34	219684.900	3.0	235452.500	2.0
634.0390	28.01	-3.44	121192.320	3.5	136959.860	2.5
634.0390	28.01	-3.02	99340.550	3.5	115108.090	2.5
634.0418	23.00	-3.27	20812.990	1.5	36580.460	1.5
634.0575	7.01	-.22	187491.900	3.0	203258.980	2.0
634.0611	28.01	-2.72	99442.860	4.5	115209.850	3.5
634.0720	8.01	-3.87	232747.510	2.5	248514.230	1.5
634.0764	28.01	-4.22	121194.140	2.5	136960.750	2.5
634.0805	27.00	-2.02	27497.060	2.5	43263.570	1.5
634.0933	29.01	-3.45	129116.900	3.0	144883.090	2.0
634.0994	28.01	-.31	104147.290	5.5	119913.330	4.5
634.1006	28.01	-2.83	120211.300	5.5	135977.310	4.5
634.1122	28.01	-3.10	121194.140	2.5	136959.860	2.5
634.1166	28.01	-2.47	118892.990	5.5	134658.600	4.5
634.1356	27.00	-.98	36329.860	2.5	52095.000	3.5
634.1408	28.01	-4.66	119773.600	6.5	135538.610	5.5
634.1408	28.01	-4.69	115000.250	3.5	130765.260	3.5
634.1680	56.00	-.11	9215.000	0.0	24983.692	0.0
634.1683	17.00	-1.55	84485.309	1.5	100249.636	2.5
634.1734	27.02	-4.44	155702.400	1.5	171466.600	2.5
634.1734	27.02	-4.44	155702.400	1.5	171466.600	2.5
634.1762	28.01	.62	106283.160	2.5	122047.290	3.5
634.1815	26.00	-4.45	29798.960	4.0	45562.959	3.0
634.1975	30.02	-1.80	217846.800	2.0	233610.400	2.0
634.2075	21.01	-3.02	12154.340	2.0	27917.690	1.0
634.2095	10.01	-2.00	303071.840	2.5	318835.140	2.5
634.2240	10.01	-1.06	303071.840	2.5	318834.780	3.5
634.2301	28.01	-2.41	117972.470	3.5	133735.260	2.5
634.2317	6.00	-1.88	70743.950	1.0	86506.700	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
634.2369	28.01	-2.85	120268.810	3.5	136031.430	2.5
634.2414	28.01	-1.41	117972.470	3.5	133734.980	3.5
634.2438	28.00	-2.41	42767.900	3.0	58530.350	3.0
634.2614	28.00	-2.79	43464.019	1.0	59226.030	1.0
634.2623	26.01	-6.63	26352.800	4.5	42114.790	4.5
634.2788	23.00	-1.61	26352.590	2.5	42114.170	3.5
634.2801	17.00	-2.42	84485.309	1.5	100246.855	1.5
634.2837	14.00	-4.18	48102.323	2.0	63863.780	2.0
634.2860	90.00	-1.37	8711.012	0.0	24476.771	0.0
634.2872	24.00	-2.06	31364.330	3.0	47125.700	3.0
634.3553	28.01	-2.27	121120.880	5.5	136880.560	4.5
634.3609	25.00	-2.58	45060.810	3.5	60820.350	2.5
634.3629	27.00	-1.82	36875.130	1.5	52634.620	.5
634.3641	28.01	-3.01	120271.970	2.5	136031.430	2.5
634.3718	21.00	-4.09	17947.980	1.5	33707.250	2.5
634.3887	23.00	-.00	26604.770	3.5	42363.620	3.5
634.3915	23.00	-1.36	21603.170	4.5	37361.950	4.5
634.4124	28.01	-2.97	121178.560	3.5	136936.820	3.5
634.4148	25.02	-3.79	177477.230	2.5	193235.430	2.5
634.4152	25.00	-1.80	30411.740	.5	46169.930	.5
634.4154	26.00	-2.59	19621.004	5.0	35379.189	5.0
634.4406	24.00	-1.52	37205.880	3.0	52963.440	4.0
634.4660	24.00	-3.49	46905.030	4.0	62661.960	3.0
634.4829	21.00	-3.64	0.000	1.5	15756.510	2.5
634.4921	28.01	-2.48	121180.540	4.5	136936.820	3.5
634.5022	26.02	-1.62	183456.690	3.0	199212.720	4.0
634.5135	18.01	-2.70	187589.230	2.5	203344.980	1.5
634.5191	28.01	-1.01	121456.320	1.5	137211.930	.5
634.5207	26.02	-2.83	183457.150	4.0	199212.720	4.0
634.5220	40.00	-.98	12663.231	0.0	28423.126	0.0
634.5350	71.00	-.45	23390.681	0.0	39150.253	0.0
634.5376	28.01	-3.97	121125.410	4.5	136880.560	4.5
634.5662	10.01	-.43	302425.870	1.5	318180.310	2.5
634.5750	38.00	-1.06	18067.285	0.0	33825.864	0.0
634.5839	10.01	-.81	302425.870	1.5	318179.870	1.5
634.6020	73.00	-2.47	9678.902	0.0	25436.810	0.0
634.6500	28.01	-3.39	121146.980	2.5	136899.340	2.5
634.6504	28.01	-4.86	121146.980	2.5	136899.330	1.5
634.6605	17.01	-1.95	161671.000	0.0	177423.100	1.0
634.6650	64.01	-1.71	10485.478	0.0	26241.822	0.0
634.6662	28.01	.64	104081.040	4.5	119833.000	5.5
634.6746	12.01	-1.28	93310.590	2.5	109062.340	2.5
634.6746	12.01	.02	93310.590	2.5	109062.340	3.5
634.6859	7.01	-.95	187437.560	1.0	203189.030	1.0
634.6927	25.00	-1.22	47154.510	1.5	62905.810	2.5
634.6956	12.01	-.14	93311.110	1.5	109062.340	2.5
634.7024	25.02	-.10	176641.140	3.5	192392.200	3.5
634.7075	9.00	-1.78	117872.916	1.5	133623.850	1.5
634.7109	14.01	.23	65500.730	.5	81251.580	1.5
634.7129	22.00	-2.86	29971.078	4.0	45721.878	4.0
634.7133	14.01	-1.20	112394.820	1.5	128145.610	2.5
634.7153	28.01	-4.76	122812.970	3.5	138563.710	3.5
634.7197	14.01	-1.05	112394.980	2.5	128145.610	3.5
634.7197	14.01	-2.35	112394.980	2.5	128145.610	2.5
634.7347	23.00	-4.10	20830.200	.5	36580.460	1.5
634.7367	28.00	-2.41	42767.900	3.0	58518.110	4.0
634.7368	14.00	-3.68	48020.074	1.0	63770.280	1.0
634.7713	28.01	-3.24	101144.630	3.5	116893.980	2.5
634.7786	17.00	-1.86	84988.480	1.5	100737.650	.5
634.7846	27.00	-.36	35450.560	3.5	51199.580	3.5
634.7943	28.01	-2.41	120211.300	5.5	135960.080	4.5
634.8104	28.01	-4.79	121146.980	2.5	136895.360	3.5
634.8149	24.01	-3.60	54678.950	4.5	70427.220	3.5
634.8221	18.01	-2.16	194861.270	2.5	210609.360	3.5
634.8229	25.00	-3.76	35114.980	2.5	50863.050	1.5
634.8362	24.00	-2.99	31377.960	4.0	47125.700	3.0
634.8475	6.00	-2.11	70743.950	1.0	86491.410	1.0
634.8504	9.00	-.31	102680.435	1.5	118427.823	1.5
634.8532	25.00	-2.90	45013.550	2.5	60760.870	1.5
634.8540	23.02	-3.72	145822.110	1.5	161569.410	1.5
634.8613	18.01	-2.01	194883.000	3.5	210630.120	3.5
634.8641	18.01	-2.07	194883.000	3.5	210630.050	2.5
634.8673	25.02	-4.78	176265.780	1.5	192012.750	1.5
634.8734	15.00	-2.56	65787.380	3.5	81534.200	3.5
634.8773	28.01	.34	104298.230	4.5	120044.950	4.5
634.9019	24.00	-2.91	33906.650	1.0	49652.760	2.0
634.9108	27.00	-3.46	27497.060	2.5	43242.950	2.5
634.9199	18.00	-4.50	104102.144	1.0	119847.810	1.0
634.9229	7.00	-2.21	96864.020	2.5	112609.612	1.5
634.9428	22.00	-3.48	33114.412	2.0	48859.510	1.0
634.9451	23.00	-1.15	14949.300	4.5	30694.340	3.5
634.9539	22.00	-3.30	17369.590	1.0	33114.412	2.0
634.9584	28.01	-4.04	120211.300	5.5	135956.010	5.5
634.9669	28.01	-3.84	121192.320	3.5	136936.820	3.5
634.9701	28.01	-3.85	119656.250	3.5	135400.670	3.5
634.9765	28.01	-3.48	118914.340	4.5	134658.600	4.5
634.9782	25.00	-1.86	30425.710	1.5	46169.930	.5
634.9810	28.01	-3.27	118897.940	2.5	134642.090	3.5
634.9850	10.01	-3.24	312824.840	2.5	328568.890	1.5
634.9997	22.00	-6.29	6661.003	3.0	22404.690	3.0
635.0016	28.01	-2.56	106369.300	1.5	122112.940	.5
635.0040	63.00	-.38	12824.546	0.0	28572.478	0.0
635.0145	27.01	-4.52	68843.800	4.0	84587.120	4.0
635.0403	28.01	-3.97	121194.140	2.5	136936.820	3.5
635.0482	28.00	-1.75	33590.159	4.0	49332.643	4.0
635.0492	25.02	-1.37	179228.690	1.5	194971.150	2.5
635.0544	26.00	-2.68	36940.600	2.0	52682.930	2.0
635.0604	28.01	.25	104147.290	5.5	119889.470	5.5
635.0738	28.01	-.27	105499.050	3.5	121240.900	3.5
635.0750	75.00	-.02	28794.735	0.0	44540.907	0.0
635.0996	28.01	-1.86	117872.780	2.5	133613.990	1.5
635.1109	10.01	-2.80	303071.840	2.5	318812.770	3.5
635.1117	28.01	-3.52	120203.490	2.5	135944.400	3.5
635.1269	26.00	-3.64	34782.406	5.0	50522.940	6.0
635.1285	9.00	-3.17	117872.916	1.5	133613.410	.5
635.1409	22.00	-3.88	14028.470	2.0	29768.655	2.0
635.1428	27.00	-1.37	36329.860	2.5	52070.000	2.5
635.1720	64.00	-.04	17663.997	0.0	33407.764	0.0
635.1835	25.02	-3.95	124823.900	4.5	140563.030	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
635.1857	10.00	-2.20	150917.431	0.0	166656.508	1.0
635.1929	26.00	-4.03	35611.608	3.0	51350.505	4.0
635.2065	21.00	-3.82	17012.980	2.5	32751.540	3.5
635.2376	28.01	-2.20	120218.220	6.5	135956.010	5.5
635.2477	24.00	-4.46	30787.300	1.0	46524.840	2.0
635.2481	28.01	-4.97	121161.810	1.5	136899.340	2.5
635.2485	28.01	-3.70	121161.810	1.5	136899.330	1.5
635.2529	25.00	-2.72	34343.900	4.5	50081.310	5.5
635.2747	27.00	-2.57	32464.730	4.5	48201.600	3.5
635.2877	23.02	-2.21	145143.430	4.5	160879.980	4.5
635.3143	28.01	-3.04	120250.170	3.5	135986.060	3.5
635.3186	14.00	-1.08	49188.617	2.0	64924.400	3.0
635.3223	22.00	-4.65	29986.185	3.0	45721.878	4.0
635.3243	20.02	-1.68	343784.960	1.0	359520.600	2.0
635.3332	10.01	-.84	302425.870	1.5	318161.290	2.5
635.3340	9.02	-2.35	426558.910	1.5	442294.310	1.5
635.3341	28.01	-3.59	118923.200	3.5	134658.600	4.5
635.3349	28.01	-3.74	119665.290	2.5	135400.670	3.5
635.3405	28.01	-4.76	120144.170	2.5	135879.410	3.5
635.3405	20.02	-2.95	347383.510	4.0	363118.750	3.0
635.3522	20.02	-4.18	370515.360	3.0	386250.310	3.0
635.3615	15.00	-3.29	65787.380	3.5	81522.100	2.5
635.3736	20.02	-2.71	370515.360	3.0	386249.780	4.0
635.3840	26.00	-6.08	7376.762	4.0	23110.925	3.0
635.3846	28.01	-2.14	118848.920	7.5	134583.070	6.5
635.4084	25.02	-4.07	124823.900	4.5	140557.460	4.5
635.4173	23.00	-2.89	15664.750	1.5	31398.090	2.5
635.4205	28.01	-3.11	118874.110	3.5	134607.370	4.5
635.4205	10.01	-2.97	303071.840	2.5	318805.100	2.5
635.4225	7.01	-1.39	210751.430	1.0	226484.640	2.0
635.4233	24.00	-4.19	31355.210	2.0	47088.400	1.0
635.4298	26.01	-4.23	49101.090	.5	64834.120	1.5
635.4298	20.02	-3.58	370515.360	3.0	386248.390	4.0
635.4304	22.00	-4.89	27498.975	3.0	43231.990	4.0
635.4544	10.01	-3.33	303071.840	2.5	318804.260	1.5
635.4555	55.00	-1.93	11178.270	0.0	26915.013	0.0
635.4649	23.00	-4.69	18805.050	.5	34537.210	1.5
635.4714	13.01	-2.80	134181.200	3.0	149913.200	2.0
635.4714	13.01	-4.23	134181.200	3.0	149913.200	3.0
635.4714	13.01	-3.05	134181.200	4.0	149913.200	3.0
635.4714	13.01	-2.18	134181.200	4.0	149913.200	3.0
635.4714	13.01	-4.10	134181.200	4.0	149913.200	4.0
635.4714	13.01	-4.24	134181.200	4.0	149913.200	4.0
635.4714	13.01	-2.57	134181.200	5.0	149913.200	4.0
635.4807	28.01	-2.38	119913.330	4.5	135645.100	5.5
635.4850	71.00	-1.28	21293.585	0.0	37029.598	0.0
635.4859	25.00	-1.41	46901.130	2.5	62632.770	3.5
635.4884	28.01	-2.84	118927.020	4.5	134658.600	4.5
635.4952	27.00	-4.23	28470.510	1.5	44201.920	2.5
635.4997	56.01	-3.31	57390.930	0.0	73126.579	0.0
635.5035	26.00	-2.37	22946.810	1.0	38678.015	2.0
635.5394	14.00	-1.94	48020.074	1.0	63750.390	1.0
635.5472	17.00	-1.87	85442.430	1.5	101172.553	1.5
635.5510	28.01	-2.75	118809.340	1.5	134539.370	2.5
635.5534	10.01	-.10	328317.950	2.5	344047.920	3.5
635.5546	24.00	-3.99	37233.500	5.0	52963.440	4.0
635.5595	23.00	-1.45	17116.920	3.5	32846.740	2.5
635.5603	10.01	-1.52	328318.120	3.5	344047.920	3.5
635.5890	63.00	-.61	13389.148	0.0	29122.586	0.0
635.5926	28.01	-1.05	105588.890	4.5	121317.890	3.5
635.6027	28.01	-.93	105499.050	3.5	121227.800	2.5
635.6051	25.00	-1.71	34343.900	4.5	50072.590	4.5
635.6136	23.01	-4.54	36425.070	4.0	52153.550	5.0
635.6140	73.00	-2.16	9194.957	0.0	24927.776	0.0
635.6185	18.01	-2.23	186815.960	3.5	202544.320	2.5
635.6431	28.01	-4.35	118914.340	4.5	134642.090	3.5
635.6545	7.01	-.48	187461.560	2.0	203189.030	1.0
635.6653	28.01	-3.16	119913.330	4.5	135640.530	4.5
635.6678	28.01	-3.84	120250.170	3.5	135977.310	4.5
635.6895	10.01	-2.64	302475.610	.5	318202.210	1.5
635.6985	14.00	-4.20	48264.292	3.0	63990.670	2.0
635.6993	18.01	-.75	194883.000	3.5	210609.360	3.5
635.7029	18.01	-.46	194883.000	3.5	210609.270	4.5
635.7098	28.01	-3.22	99132.780	5.5	114858.880	5.5
635.7142	10.01	-.89	302475.610	.5	318201.600	.5
635.7191	25.00	-3.31	45013.550	2.5	60739.420	3.5
635.7215	10.01	-.84	312843.080	1.5	328568.890	1.5
635.7219	28.01	-4.65	119833.000	5.5	135558.800	4.5
635.7219	10.01	-.14	312843.080	1.5	328568.880	.5
635.7220	42.01	-1.53	18147.942	0.0	33878.088	0.0
635.7243	10.01	.11	312843.150	2.5	328568.890	1.5
635.7312	29.01	-.03	122867.530	1.0	138593.100	1.0
635.7316	23.00	-1.26	14910.040	3.5	30635.600	2.5
635.7410	22.00	-1.97	33114.412	2.0	48839.740	3.0
635.7504	22.00	-2.47	29986.185	3.0	45711.280	4.0
635.7515	17.00	-3.54	85735.091	1.5	101460.160	1.5
635.7575	7.01	-.78	187437.560	1.0	203162.480	0.0
635.7610	9.00	-4.75	102680.435	1.5	118405.267	.5
635.7733	10.01	-4.13	302057.260	.5	317781.790	1.5
635.7882	25.02	.22	215663.500	3.5	231387.660	3.5
635.7928	26.00	-4.96	35379.189	5.0	51103.237	5.0
635.7959	28.01	-4.60	121042.520	1.5	136766.490	2.5
635.7979	28.01	-1.82	121042.570	1.5	136766.490	2.5
635.8121	24.01	-4.02	59130.510	1.5	74854.080	.5
635.8130	57.01	-2.76	5646.026	0.0	21373.921	0.0
635.8230	24.02	-4.80	138362.400	2.0	154085.700	3.0
635.8440	26.00	-3.67	37046.000	4.0	52768.780	4.0
635.8627	26.00	-4.29	35257.309	4.0	50979.627	4.0
635.8636	26.00	-1.76	33412.706	3.0	49135.003	3.0
635.8688	22.00	-3.65	11776.806	4.0	27498.975	3.0
635.8696	26.00	-4.74	6928.266	5.0	22650.415	6.0
635.8715	17.01	-4.78	128621.900	1.0	144344.000	2.0
635.8817	23.00	-1.03	17242.050	5.5	32963.900	6.5
635.8934	28.01	-2.99	118892.990	5.5	134614.550	5.5
635.8934	25.00	-3.17	34343.900	4.5	50065.460	3.5
635.9035	28.01	-3.52	118893.240	6.5	134614.550	5.5
635.9067	28.01	-3.82	113753.040	4.5	129474.270	3.5
635.9200	22.00	-2.21	17369.590	1.0	33090.492	1.0
635.9249	28.01	-3.35	121178.560	3.5	136899.340	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
635.9280	92.00	-2.21	0.000	0.0	15725.051	0.0
635.9322	25.02	.27	176945.200	4.5	192665.800	4.5
635.9528	24.01	-3.48	54678.950	4.5	70399.040	5.5
635.9557	9.02	-1.55	426558.910	1.5	442278.930	2.5
635.9735	27.00	-1.98	35450.560	3.5	51170.140	4.5
635.9860	24.00	-2.57	37244.170	4.0	52963.440	4.0
635.9886	22.00	-4.10	386.874	4.0	16106.080	4.0
635.9941	28.01	-3.06	118939.530	5.5	134658.600	4.5
636.0014	28.01	-2.72	118923.200	3.5	134642.090	3.5
636.0046	22.00	-4.00	29971.078	4.0	45689.890	3.0
636.0220	57.00	-1.02	8952.985	0.0	24675.712	0.0
636.0391	8.01	-2.62	232796.270	2.5	248514.230	1.5
636.0423	24.00	-4.72	33934.880	3.0	49652.760	2.0
636.0479	27.00	-2.82	40827.770	1.5	56545.510	2.5
636.0580	22.00	-4.83	25797.600	3.0	41515.090	4.0
636.0593	23.00	-2.38	26352.590	2.5	42070.050	2.5
636.0678	28.01	-3.43	120268.810	3.5	135986.060	3.5
636.0681	20.02	-4.61	370533.070	4.0	386250.310	3.0
636.0682	22.00	-4.24	30039.211	5.0	45756.450	5.0
636.0714	28.01	-.96	121561.060	.5	137278.220	1.5
636.0734	24.00	-2.85	33935.650	2.0	49652.760	2.0
636.0791	22.01	-2.06	53128.170	1.5	68845.140	2.5
636.0808	28.00	-4.31	33610.916	2.0	49327.845	2.0
636.0840	73.00	-1.99	11130.738	0.0	26851.932	0.0
636.0860	28.01	-4.14	121178.560	3.5	136895.360	3.5
636.0896	20.02	-3.02	370533.070	4.0	386249.780	4.0
636.1155	28.01	-3.63	119913.330	4.5	135629.400	3.5
636.1252	23.00	-1.13	17181.980	4.5	32897.810	5.5
636.1252	28.01	-1.54	121050.660	2.5	136766.490	2.5
636.1264	15.00	-2.91	65585.000	2.5	81300.800	1.5
636.1284	17.00	-3.88	84988.480	1.5	100704.230	1.5
636.1341	20.02	-3.61	370533.070	4.0	386248.680	5.0
636.1360	22.00	-2.23	17369.590	1.0	33085.153	0.0
636.1362	23.00	-3.17	21646.390	3.5	37361.950	4.5
636.1382	24.01	-3.12	54678.950	4.5	70394.460	4.5
636.1390	28.01	.01	106369.300	1.5	122084.790	1.5
636.1425	22.00	-4.61	27614.667	4.0	43330.070	5.0
636.1451	24.00	-2.33	33934.880	3.0	49650.220	3.0
636.1535	10.01	-3.35	301948.000	1.5	317663.130	1.5
636.1556	28.01	-2.74	119913.330	4.5	135628.410	4.5
636.1560	28.01	-2.59	118927.020	4.5	134642.090	3.5
636.1661	28.01	-3.31	121180.540	4.5	136895.360	3.5
636.1762	24.00	-2.83	33935.650	2.0	49650.220	3.0
636.1839	28.01	-3.14	118892.990	5.5	134607.370	4.5
636.1957	28.01	-4.27	120271.970	2.5	135986.060	3.5
636.2046	28.01	-4.94	119909.720	1.5	135623.590	1.5
636.2090	60.01	-2.06	8307.725	0.0	24025.830	0.0
636.2135	8.01	-3.43	232711.700	.5	248425.350	.5
636.2163	24.00	-3.33	35572.940	2.0	51286.520	2.0
636.2183	28.01	-2.73	120272.530	4.5	135986.060	3.5
636.2228	21.00	-4.12	168.340	2.5	15881.760	3.5
636.2350	30.00	.44	46539.389	0.0	62256.852	0.0
636.2394	23.00	-4.83	17054.870	2.5	32767.880	1.5
636.2536	23.00	-3.31	21603.170	4.5	37315.830	5.5
636.2694	23.00	-5.36	10892.500	3.5	26604.770	3.5
636.2864	24.00	-3.05	7593.160	2.0	23305.010	2.0
636.2876	21.00	-2.04	18711.030	.5	34422.850	1.5
636.2989	24.00	-3.26	31009.000	3.0	46720.540	4.0
636.3046	13.01	-.64	133914.100	2.0	149625.500	3.0
636.3220	56.01	-2.15	57390.930	0.0	73106.244	0.0
636.3230	64.00	-.43	16050.847	0.0	31766.136	0.0
636.3305	28.01	-2.87	118828.610	2.5	134539.370	2.5
636.3348	9.00	-1.36	117872.916	1.5	133583.570	2.5
636.3410	44.00	-.35	28310.790	0.0	44025.635	0.0
636.3536	28.01	-2.15	119909.720	1.5	135619.910	1.5
636.3649	28.01	-4.12	120250.170	3.5	135960.080	4.5
636.3901	23.00	-3.15	15688.800	2.5	31398.090	2.5
636.3909	28.01	-3.62	119913.330	4.5	135622.600	3.5
636.3940	38.00	-1.07	18067.285	0.0	33780.821	0.0
636.4221	28.01	-3.86	120268.810	3.5	135977.310	4.5
636.4229	26.02	-2.64	183431.280	5.0	199139.760	5.0
636.4245	25.02	-4.24	176683.760	2.5	192392.200	3.5
636.4277	28.01	-2.39	119909.720	1.5	135618.080	2.5
636.4365	26.00	-1.30	38678.015	2.0	54386.160	1.0
636.4379	25.02	-4.29	176464.780	3.5	192172.890	2.5
636.4566	28.00	-3.75	15734.018	1.0	31441.665	2.0
636.4711	26.00	-1.87	36975.640	3.0	52682.930	2.0
636.4809	22.00	-4.58	170.132	3.0	15877.180	2.0
636.4812	25.02	.18	216557.380	3.5	232264.420	3.5
636.4820	28.01	-2.58	121192.320	3.5	136899.340	2.5
636.4828	21.00	-3.60	18000.250	2.5	33707.250	2.5
636.4881	28.01	-2.54	120270.440	5.5	135977.310	4.5
636.4888	18.00	-2.94	106087.305	1.0	121794.158	0.0
636.4942	25.02	-4.57	121117.140	3.5	136823.860	3.5
636.4997	10.00	-2.51	150121.592	1.0	165828.175	2.0
636.5120	25.02	-.23	176209.150	1.5	191915.430	.5
636.5120	28.01	-3.89	100078.780	1.5	115785.060	1.5
636.5323	28.01	.26	105588.890	4.5	121294.670	4.5
636.5392	28.01	-4.44	119833.000	5.5	135538.610	5.5
636.5444	18.01	-3.32	179592.130	2.5	195297.610	1.5
636.5453	28.01	-2.86	121146.980	2.5	136852.440	1.5
636.5465	28.01	-3.00	122790.410	4.5	138495.840	4.5
636.5546	22.00	-3.27	31489.451	4.0	47194.680	4.0
636.5550	60.01	-2.17	7420.492	0.0	23130.054	0.0
636.5558	28.01	-3.59	121194.140	2.5	136899.340	2.5
636.5562	28.01	-3.72	121194.140	2.5	136899.330	1.5
636.5603	24.00	-3.22	46985.870	5.0	62690.960	5.0
636.5659	28.01	-2.77	120281.110	4.5	135986.060	3.5
636.5728	28.01	-3.15	120272.530	4.5	135977.310	4.5
636.5789	28.01	-.89	104298.230	4.5	120002.860	3.5
636.5790	71.00	-1.61	21051.613	0.0	36760.582	0.0
636.5848	9.00	-2.29	117872.916	1.5	133577.400	1.5
636.5866	28.01	-3.57	118892.990	5.5	134597.430	5.5
636.5939	10.01	-.69	302475.610	.5	318179.870	1.5
636.5963	30.02	-.73	221343.600	2.0	237047.800	2.0
636.5967	28.01	-2.33	118893.240	6.5	134597.430	5.5
636.6016	28.01	-3.72	99154.810	4.5	114858.880	5.5
636.6164	22.00	-2.99	29986.185	3.0	45689.890	3.0
636.6288	27.00	-.96	36329.860	2.5	52033.260	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
636.6352	22.00	-2.31	11776.806	4.0	27480.047	3.0
636.6434	28.01	-3.35	121192.320	3.5	136895.360	3.5
636.6476	28.00	-1.32	33610.916	2.0	49313.851	3.0
636.6539	28.01	-3.58	120199.180	1.5	135901.960	2.5
636.6616	27.00	-3.37	27497.060	2.5	43199.650	2.5
636.6787	7.01	-2.78	148908.590	0.0	164610.760	1.0
636.6855	28.01	-4.22	121178.560	3.5	136880.560	4.5
636.6936	26.01	-4.79	83871.310	4.5	99573.110	4.5
636.6977	20.02	-1.73	347417.050	3.0	363118.750	3.0
636.6985	17.00	-2.38	85244.330	.5	100946.010	.5
636.7076	14.00	-2.52	48020.074	1.0	63721.530	2.0
636.7086	22.01	-4.72	47466.800	3.5	63168.230	2.5
636.7088	26.00	-2.93	38678.015	2.0	54379.440	3.0
636.7245	15.01	-1.18	87967.700	3.0	103668.740	3.0
636.7383	22.00	-4.83	25493.722	2.0	41194.420	3.0
636.7410	62.00	-1.70	1451.835	0.0	17156.808	0.0
636.7435	9.00	-1.81	117308.558	1.5	133009.130	.5
636.7573	23.02	-.56	146223.050	3.5	161923.280	2.5
636.7658	28.01	-3.14	121180.540	4.5	136880.560	4.5
636.7986	9.02	-4.33	440069.510	1.5	455768.720	.5
636.8038	17.00	-1.89	84648.100	2.5	100347.182	2.5
636.8082	22.00	-1.50	25388.334	4.0	41087.310	3.0
636.8222	28.01	-2.90	118828.610	2.5	134527.240	3.5
636.8280	62.01	-1.52	12743.888	0.0	28446.715	0.0
636.8287	28.01	-2.99	120203.490	2.5	135901.960	2.5
636.8388	26.00	-3.85	31307.235	4.0	47005.455	5.0
636.8478	25.00	-3.95	35165.050	1.5	50863.050	1.5
636.8567	25.02	-1.19	215663.500	3.5	231361.280	2.5
636.8598	26.00	-4.09	38678.015	2.0	54375.719	2.0
636.8826	25.02	-3.30	176695.060	4.5	192392.200	3.5
636.8871	23.00	-1.32	26480.280	3.5	42177.310	4.5
636.8912	28.01	-3.92	113172.960	4.5	128869.890	5.5
636.9074	15.00	-1.61	65373.470	.5	81070.000	1.5
636.9127	18.01	-3.60	174409.830	1.5	190106.230	1.5
636.9180	23.00	-1.98	21646.390	3.5	37342.660	2.5
636.9188	23.00	-3.73	15571.900	2.5	31268.150	3.5
636.9208	28.01	-3.02	120281.110	4.5	135977.310	4.5
636.9220	26.00	-2.70	33412.706	3.0	49108.876	4.0
636.9240	22.00	-2.57	30060.328	4.0	45756.450	5.0
636.9250	63.00	-.64	13147.176	0.0	28847.612	0.0
636.9326	28.01	-2.76	115120.000	2.5	130815.910	3.5
636.9342	16.01	-2.57	114162.200	.5	129858.070	1.5
636.9374	25.02	-2.59	176970.010	5.5	192665.800	4.5
636.9419	26.01	-9.67	23317.600	2.5	39013.280	1.5
636.9569	18.00	-2.51	106237.597	2.0	121932.908	1.0
636.9675	24.00	-2.19	31352.420	1.0	47047.470	2.0
636.9960	38.00	-.93	18067.285	0.0	33765.971	0.0
636.9969	14.00	-1.90	48020.074	1.0	63714.400	2.0
636.9995	24.00	-3.72	46967.700	2.0	62661.960	3.0
637.0007	28.01	-3.13	120250.170	3.5	135944.400	3.5
637.0027	14.00	-1.24	49188.617	2.0	64882.800	2.0
637.0035	26.00	-4.82	35767.546	4.0	51461.707	4.0
637.0113	20.02	.10	328090.990	2.0	343784.960	1.0
637.0227	23.00	-2.92	20767.570	3.5	36461.260	2.5
637.0247	25.01	-4.37	55696.500	4.0	71390.140	3.0
637.0341	28.00	-1.65	28569.210	2.0	44262.619	2.0
637.0397	24.00	-4.92	31355.210	2.0	47048.480	3.0
637.0466	22.01	-6.33	15265.600	3.5	30958.700	2.5
637.0494	28.01	-2.68	118914.340	4.5	134607.370	4.5
637.0559	28.01	-2.81	119913.330	4.5	135606.200	5.5
637.0673	23.01	-2.57	20980.920	2.0	36673.510	2.0
637.0807	24.00	-2.32	31355.210	2.0	47047.470	2.0
637.1010	62.00	-1.80	3952.218	0.0	19648.316	0.0
637.1055	25.02	-4.78	121197.050	2.5	136888.700	1.5
637.1110	58.01	-.94	12582.573	0.0	28278.425	0.0
637.1132	26.01	-3.95	44753.820	3.5	60445.280	2.5
637.1144	24.00	-3.50	33906.650	1.0	49598.080	2.0
637.1201	28.01	.70	105499.050	3.5	121190.340	4.5
637.1209	28.01	-4.95	120268.810	3.5	135960.080	4.5
637.1273	17.00	-2.39	85735.091	1.5	101426.204	2.5
637.1372	14.01	-.07	65500.730	.5	81191.600	.5
637.1400	28.01	-2.02	115209.850	3.5	130900.650	2.5
637.1469	28.01	-4.08	121161.810	1.5	136852.440	1.5
637.1489	24.00	-2.53	31364.330	3.0	47054.910	4.0
637.1498	22.00	-1.96	17423.853	2.0	33114.412	2.0
637.1635	28.01	-4.92	121042.520	1.5	136732.740	1.5
637.1656	28.01	-.17	121042.570	1.5	136732.740	1.5
637.1692	28.01	-4.67	118892.990	5.5	134583.070	6.5
637.1794	28.01	-2.86	118893.240	6.5	134583.070	6.5
637.1797	9.00	-2.03	117308.558	1.5	132998.380	1.5
637.1871	28.01	-2.84	120270.440	5.5	135960.080	4.5
637.1916	28.01	-4.72	113172.960	4.5	128862.490	4.5
637.1972	28.01	-4.25	113177.610	3.5	128867.000	3.5
637.2017	28.01	-4.81	119909.720	1.5	135599.000	.5
637.2029	28.01	-3.77	116145.690	3.5	131834.940	2.5
637.2212	21.00	-4.94	24866.180	1.5	40554.980	2.5
637.2273	28.01	-.69	118379.110	2.5	134067.760	1.5
637.2301	15.00	-2.87	66544.120	2.5	82232.700	2.5
637.2452	24.00	-4.57	20523.940	5.0	36212.150	4.0
637.2470	92.00	-1.37	3710.246	0.0	19402.748	0.0
637.2517	24.00	-1.91	46985.870	5.0	62673.920	6.0
637.2720	28.01	-3.48	120272.530	4.5	135960.080	4.5
637.2728	28.01	-3.97	118927.020	4.5	134614.550	5.5
637.2785	24.01	-4.19	36101.820	3.5	51789.210	3.5
637.3060	73.00	-.80	22664.763	0.0	38355.813	0.0
637.3145	56.01	-2.79	45949.496	0.0	61640.336	0.0
637.3175	18.01	-4.16	174820.930	.5	190507.360	1.5
637.3179	29.01	-.50	121078.960	3.0	136765.380	4.0
637.3289	28.01	-.63	120903.200	3.5	136589.350	3.5
637.3344	9.00	-1.70	118405.267	.5	134091.280	1.5
637.3427	24.00	-2.15	33934.880	3.0	49620.690	4.0
637.3467	28.01	-.09	104147.290	5.5	119833.000	5.5
637.3483	17.00	-2.48	84485.309	1.5	100170.980	1.5
637.3524	28.01	-2.98	120270.440	5.5	135956.010	5.5
637.3630	23.02	-1.87	145902.730	4.5	161588.040	3.5
637.3703	24.00	-3.38	46985.870	5.0	62671.000	4.0
637.3756	13.01	-2.29	134181.200	4.0	149866.200	3.0
637.3756	13.01	-3.01	134181.200	4.0	149866.200	3.0
637.3756	13.01	-4.10	134181.200	3.0	149866.200	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
637.3305	28.01	-4.29	113177.610	3.5	128862.490	4.5
637.3929	28.00	-2.81	28578.046	3.0	44262.619	2.0
637.3954	9.00	-2.53	117872.916	1.5	133557.430	2.5
637.3975	24.00	-4.91	49027.580	2.0	64712.040	3.0
637.3975	23.00	-1.73	26480.280	3.5	42164.740	3.5
637.4093	28.01	-4.17	118923.200	3.5	134607.370	4.5
637.4101	24.00	-3.44	31364.330	3.0	47048.480	3.0
637.4219	21.00	-2.93	17012.980	2.5	32696.840	2.5
637.4353	25.01	-4.59	49882.150	4.0	65565.680	4.0
637.4374	28.01	-4.57	120272.530	4.5	135956.010	5.5
637.4459	23.00	-1.58	17054.870	2.5	32738.140	1.5
637.4512	24.00	-3.05	31364.330	3.0	47047.470	2.0
637.4532	28.01	-3.38	118914.340	4.5	134597.430	5.5
637.4638	28.01	-3.53	100592.980	3.5	116275.810	3.5
637.4646	28.01	-4.94	121042.520	1.5	136725.330	.5
637.4666	28.01	-1.05	121042.570	1.5	136725.330	.5
637.4709	26.00	-3.91	35611.608	3.0	51294.262	3.0
637.4727	26.02	-4.91	183457.150	4.0	199139.760	5.0
637.4845	24.00	-4.66	33906.650	1.0	49588.970	1.0
637.4943	28.01	-1.35	121050.660	2.5	136732.740	1.5
637.5032	23.00	-3.43	21603.170	4.5	37285.030	4.5
637.5179	17.01	-4.46	128662.500	2.0	144344.000	2.0
637.5203	24.00	-1.40	37233.500	5.0	52914.940	6.0
637.5211	28.00	-2.40	33590.159	4.0	49271.578	3.0
637.5280	23.00	-3.49	26352.590	2.5	42033.840	1.5
637.5402	28.01	-3.97	113172.960	4.5	128853.910	4.5
637.5463	14.00	-1.97	48264.292	3.0	63945.090	3.0
637.5646	28.01	-3.42	118927.020	4.5	134607.370	4.5
637.5658	15.00	-2.19	65787.380	3.5	81467.700	4.5
637.5662	29.01	-4.99	131206.000	0.0	146886.310	1.0
637.5731	9.02	-1.93	442278.930	2.5	457959.070	3.5
637.5797	28.01	-2.02	117763.910	1.5	133443.890	2.5
637.5943	18.01	-2.30	158730.210	2.5	174409.830	1.5
637.5984	28.01	-3.05	101144.630	3.5	116824.150	2.5
637.5999	22.00	-4.89	13981.750	1.0	29661.232	1.0
637.6004	25.02	-4.69	121117.140	3.5	136796.610	2.5
637.6044	8.01	-3.26	232745.980	1.5	248425.350	.5
637.6097	24.00	-2.95	31009.000	3.0	46688.240	3.0
637.6106	21.00	-2.20	18711.030	.5	34390.250	.5
637.6130	28.01	-3.67	118294.170	3.5	133973.330	2.5
637.6167	28.01	-4.15	120222.890	1.5	135901.960	2.5
637.6207	28.01	-3.24	120281.110	4.5	135960.080	4.5
637.6264	18.01	-3.08	186470.280	1.5	202149.110	2.5
637.6346	24.00	-2.70	31280.350	5.0	46958.980	5.0
637.6354	25.00	-3.46	45060.810	3.5	60739.420	3.5
637.6397	17.00	-4.69	85917.937	.5	101596.440	.5
637.6442	22.00	-1.66	28702.768	3.0	44381.160	4.0
637.6450	44.00	-2.27	12743.888	0.0	28426.595	0.0
637.6866	24.00	-1.99	31377.960	4.0	47055.310	5.0
637.7029	24.00	-2.18	31377.960	4.0	47054.910	4.0
637.7096	7.00	-3.26	94793.460	1.5	110470.244	2.5
637.7135	24.00	-2.97	31106.370	4.0	46783.060	4.0
637.7143	29.01	-.44	123304.630	1.0	138981.300	2.0
637.7310	28.01	-4.78	113177.610	3.5	128853.870	2.5
637.7322	28.01	-1.60	106022.790	.5	121699.020	1.5
637.7341	7.00	-3.34	94770.850	.5	110447.032	1.5
637.7489	25.01	-3.91	49889.860	3.0	65565.680	4.0
637.7521	28.01	-.99	105439.850	1.5	121115.590	1.5
637.7576	28.00	-3.57	42954.234	2.0	58629.840	2.0
637.7582	28.01	-2.97	120268.810	3.5	135944.400	3.5
637.7631	20.02	-4.08	328582.450	1.0	344257.920	1.0
637.7694	28.00	-2.67	42954.234	2.0	58629.550	3.0
637.7761	29.01	-.41	121078.960	3.0	136754.110	2.0
637.7814	28.01	-3.89	118939.530	5.5	134614.550	5.5
637.7863	28.01	-4.06	120281.110	4.5	135956.010	5.5
637.7931	17.00	-2.76	85917.937	.5	101592.670	.5
637.8144	28.01	-1.30	122821.630	5.5	138495.840	4.5
637.8247	28.00	-1.01	33500.854	3.0	49174.811	4.0
637.8253	28.01	.04	118379.110	2.5	134053.050	2.5
637.8258	24.00	-2.74	35572.940	2.0	51246.870	1.0
637.8274	7.01	-2.16	187091.370	2.0	202765.260	2.0
637.8282	23.00	-3.95	15724.220	3.5	31398.090	2.5
637.8441	15.00	-2.19	65450.020	1.5	81123.500	2.5
637.8470	18.01	-4.05	170400.940	2.5	186074.350	2.5
637.8587	24.00	-3.79	33113.270	4.0	48786.390	5.0
637.8799	6.00	-3.29	70743.950	1.0	86416.550	1.0
637.8819	21.00	-2.96	0.000	1.5	15672.550	1.5
637.6868	28.01	-3.75	120271.970	2.5	135944.400	3.5
637.8966	56.01	-.92	50011.220	0.0	65687.742	0.0
637.8982	25.00	-1.82	30411.740	.5	46083.890	1.5
637.8990	23.00	-3.47	20789.130	2.5	36461.260	2.5
637.8990	23.00	-3.64	20789.130	2.5	36461.260	3.5
637.9015	22.00	-4.10	30039.211	5.0	45711.280	4.0
637.9023	28.01	-.08	105439.850	1.5	121111.900	.5
637.9051	25.00	-3.07	46901.130	2.5	62573.110	1.5
637.9096	28.01	-2.80	120272.530	4.5	135944.400	3.5
637.9145	24.00	-3.28	30965.460	3.0	46637.210	3.0
637.9328	23.00	-1.26	17116.920	3.5	32788.220	4.5
637.9454	28.01	-4.69	113753.040	4.5	129424.030	5.5
637.9486	28.00	-1.41	36600.805	2.0	52271.716	2.0
637.9617	7.01	-.92	148940.170	1.0	164610.760	1.0
637.9646	24.00	-4.49	31377.960	4.0	47048.480	3.0
637.9690	28.01	-4.43	118927.020	4.5	134597.430	5.5
637.9702	24.01	-3.63	36272.660	4.5	51943.040	4.5
638.0089	23.01	-1.56	34228.790	3.0	49898.220	2.0
638.0130	24.00	-4.86	31352.420	1.0	47021.750	1.0
638.0190	72.00	-1.84	15566.901	0.0	31240.415	0.0
638.0478	14.00	-4.59	45293.629	2.0	60962.105	2.0
638.0488	28.01	-.34	123434.600	4.5	139103.050	5.5
638.0630	22.00	-4.68	27480.047	3.0	43148.150	3.0
638.0647	24.00	-2.89	31009.000	3.0	46677.060	2.0
638.0668	24.00	-3.35	35618.510	1.0	51286.520	2.0
638.0689	14.00	-2.08	48102.323	2.0	63770.280	1.0
638.0737	28.01	-2.64	118939.530	5.5	134607.370	4.5
638.0746	26.00	-1.02	33765.291	2.0	49433.108	2.0
638.0750	38.00	-.47	18067.285	0.0	33739.424	0.0
638.0765	29.01	-1.85	120092.200	2.0	135759.970	2.0
638.0875	24.01	-4.84	50687.630	2.5	66355.130	1.5
638.0950	64.01	-1.22	13308.491	0.0	28980.139	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
638.0997	28.01	-1.55	106133.140	1.5	121800.340	1.5
638.1006	28.01	-4.67	116167.760	1.5	131834.940	2.5
638.1046	21.00	-4.92	17947.980	1.5	33615.060	1.5
638.1105	28.00	-2.37	35639.148	3.0	51306.085	3.0
638.1226	22.00	-2.03	17423.853	2.0	33090.492	1.0
638.1250	23.00	-.43	26738.310	4.5	42404.890	3.5
638.1266	24.00	-4.79	31355.210	2.0	47021.750	1.0
638.1266	28.01	-2.64	113753.040	4.5	129419.580	4.5
638.1450	25.02	-1.04	179228.690	1.5	194894.780	1.5
638.1478	24.00	-3.69	30858.820	2.0	46524.840	2.0
638.1541	20.00	-4.25	35730.454	2.0	51396.320	3.0
638.1788	28.01	-3.28	118874.110	3.5	134539.370	2.5
638.1926	22.00	-4.10	17995.750	0.0	33660.671	1.0
638.1991	23.00	-1.91	20812.990	1.5	36477.750	.5
638.2155	22.00	-3.32	31373.801	3.0	47038.160	3.0
638.2187	25.00	-1.78	30419.610	2.5	46083.890	1.5
638.2448	24.01	-3.50	54444.190	3.5	70107.630	4.5
638.2523	9.00	-2.49	118427.823	1.5	134091.280	1.5
638.2590	28.01	-2.93	120281.110	4.5	135944.400	3.5
638.2625	28.00	-5.10	14728.847	0.0	30392.052	1.0
638.2627	24.00	-4.38	33934.880	3.0	49598.080	2.0
638.2685	18.01	-1.27	190592.170	1.5	206255.230	2.5
638.2719	22.00	-4.59	14105.680	3.0	29768.655	2.0
638.2730	63.00	-.47	15002.299	0.0	30669.576	0.0
638.2810	28.01	-4.14	99418.610	3.5	115081.360	4.5
638.2831	29.01	-4.57	118163.500	2.0	133826.200	2.0
638.2940	75.00	-.62	29601.310	0.0	45268.072	0.0
638.2941	24.00	-3.78	33935.650	2.0	49598.080	2.0
638.2949	28.01	-4.45	103653.030	3.5	119315.440	2.5
638.2991	10.00	-.26	134459.287	1.0	150121.592	1.0
638.3000	7.03	-.45	388858.000	0.0	404524.614	0.0
638.3002	28.01	-4.37	118877.090	1.5	134539.370	2.5
638.3046	18.01	-.37	194996.490	1.5	210658.660	2.5
638.3063	28.01	-2.55	122120.370	5.5	137782.500	4.5
638.3091	18.01	-1.12	194996.490	1.5	210658.550	1.5
638.3143	22.00	-7.19	6742.757	4.0	22404.690	3.0
638.3153	24.00	-2.07	31393.400	5.0	47055.310	5.0
638.3210	24.00	-2.41	35398.020	4.0	51059.790	4.0
638.3242	23.00	-3.91	21841.450	2.5	37503.140	2.5
638.3316	24.00	-3.22	31393.400	5.0	47054.910	4.0
638.3401	24.00	-4.36	30787.300	1.0	46448.600	1.0
638.3454	25.02	.08	216403.860	2.5	232065.030	2.5
638.3590	92.00	-2.15	4355.506	0.0	20020.672	0.0
638.3661	28.00	-2.14	33610.916	2.0	49271.578	3.0
638.3682	26.00	-3.39	36079.353	3.0	51739.964	2.0
638.3727	26.01	-4.57	44784.780	2.5	60445.280	2.5
638.3793	26.02	-4.81	184777.600	2.0	200437.940	2.0
638.3860	63.00	-.31	15002.299	0.0	30666.803	0.0
638.3968	24.00	-4.32	31028.330	2.0	46688.240	3.0
638.4013	17.01	-1.95	146330.000	1.0	161989.800	1.0
638.4054	28.01	-3.54	99340.550	3.5	115000.250	3.5
638.4160	26.02	-4.43	184778.500	3.0	200437.940	2.0
638.4245	27.00	-2.66	21215.900	.5	36875.130	1.5
638.4318	7.01	-3.02	186511.580	2.0	202170.630	1.0
638.4396	23.00	-.74	26505.880	2.5	42164.740	3.5
638.4539	28.01	-2.98	118314.820	2.5	133973.330	2.5
638.4539	28.01	-1.38	122837.330	4.5	138495.840	4.5
638.4575	24.01	-4.14	74854.080	.5	90512.500	1.5
638.4624	28.01	-3.20	121194.140	2.5	136852.440	1.5
638.4663	28.00	-1.40	33500.854	3.0	49159.060	2.0
638.4673	25.00	-1.61	30425.710	1.5	46083.890	1.5
638.4710	18.01	-2.97	196103.310	4.5	211761.400	3.5
638.4716	18.00	-2.09	104102.144	1.0	119760.220	1.0
638.4718	18.01	-1.33	196103.310	4.5	211761.380	4.5
638.4781	14.00	-1.82	48102.323	2.0	63760.240	3.0
638.4787	28.01	-2.70	118939.530	5.5	134597.430	5.5
638.4824	23.01	-3.71	36425.070	4.0	52082.880	4.0
638.4902	16.01	-2.91	114200.450	1.5	129858.070	1.5
638.5085	28.01	-3.15	115108.090	2.5	130765.260	3.5
638.5122	23.00	-4.08	15571.900	2.5	31228.980	2.5
638.5184	9.00	-1.29	118427.823	1.5	134084.750	2.5
638.5200	60.00	-1.01	1048.548	0.0	16709.765	0.0
638.5346	29.01	-2.71	118071.340	1.0	133727.870	2.0
638.5367	22.00	-4.24	31373.801	3.0	47030.280	3.0
638.5452	26.01	-4.82	44784.780	2.5	60441.050	1.5
638.5501	25.01	-3.69	85811.430	7.0	101467.580	6.0
638.5563	17.01	-2.32	146333.800	2.0	161989.800	1.0
638.5660	23.00	-2.06	17242.050	5.5	32897.810	5.5
638.5714	26.00	-1.57	38175.332	3.0	53830.960	3.0
638.6154	24.01	-4.33	32836.840	3.5	48491.390	2.5
638.6175	13.01	-.76	133914.100	2.0	149568.600	3.0
638.6230	72.00	-2.95	2339.068	0.0	17997.759	0.0
638.6301	28.01	-4.35	113172.960	4.5	128827.150	3.5
638.6361	28.00	-3.20	43464.019	1.0	59118.060	2.0
638.6362	16.01	-4.25	109831.280	1.5	125485.320	.5
638.6500	38.00	-.50	18228.600	0.0	33686.629	0.0
638.6545	25.00	-3.78	35165.050	1.5	50818.640	.5
638.6552	7.00	-3.67	94793.460	1.5	110447.032	1.5
638.6578	25.01	-3.76	65567.070	2.0	81220.580	3.0
638.6635	18.01	-4.11	186890.950	2.5	202544.320	2.5
638.6656	27.00	-1.05	31871.150	3.5	47524.470	4.5
638.6733	28.01	-2.66	118874.110	3.5	134527.240	3.5
638.6741	26.01	-2.72	54870.620	2.5	70523.730	3.5
638.7072	28.01	-3.72	116468.400	1.5	132120.700	.5
638.7185	22.00	-3.70	31628.668	5.0	47280.690	5.0
638.7190	28.01	-.54	105588.890	4.5	121240.900	3.5
638.7239	24.00	-2.50	37233.500	5.0	52885.390	5.0
638.7280	28.01	-2.81	120250.170	3.5	135901.960	2.5
638.7325	15.00	-4.00	66544.120	2.5	82195.800	1.5
638.7410	23.00	-3.47	21963.500	3.5	37614.970	3.5
638.7545	20.02	.06	328606.780	2.0	344257.920	1.0
638.7569	18.01	-4.98	188766.150	2.5	204417.230	1.5
638.7622	22.00	-3.20	30060.328	4.0	45711.280	4.0
638.7655	28.01	-1.88	121561.060	.5	137211.930	.5
638.7700	20.02	-2.95	344149.810	2.0	359800.570	3.0
638.7798	28.01	-3.25	99559.330	2.5	115209.850	3.5
638.7844	22.00	-3.84	31489.451	4.0	47139.860	4.0
638.8002	24.00	-3.35	31028.330	2.0	46678.350	1.0
638.8039	29.01	-3.62	115662.770	4.0	131312.700	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
638.8080	10.01	-3.20	292451.780	1.5	308101.610	1.5
638.8153	25.02	-3.46	176265.780	1.5	191915.430	.5
638.8206	28.01	.15	106620.530	3.5	122270.050	3.5
638.8219	10.01	-3.49	292451.780	1.5	308101.270	2.5
638.8223	25.00	-2.90	47774.520	3.5	63424.000	3.5
638.8240	38.00	-.69	18067.285	0.0	33721.049	0.0
638.8280	28.01	-4.02	119315.440	2.5	134964.780	1.5
638.8288	25.00	-2.85	34423.270	3.5	50072.590	4.5
638.8321	8.01	-3.53	232536.060	1.5	248185.300	2.5
638.8333	18.01	-.42	196076.390	1.5	211725.600	2.5
638.8347	22.00	-3.82	27498.975	3.0	43148.150	3.0
638.8361	28.01	-3.58	119889.470	5.5	135538.610	5.5
638.8374	28.01	.24	105668.780	2.5	121317.890	3.5
638.8415	26.00	-4.72	27166.804	4.0	42815.814	5.0
638.8529	24.00	-2.97	31028.330	2.0	46677.060	2.0
638.8557	26.01	-6.65	22810.330	3.5	38458.990	4.5
638.8582	15.00	-1.49	65585.000	2.5	81233.600	3.5
638.8659	22.00	-3.14	25438.898	2.0	41087.310	3.0
638.8717	23.00	-4.66	20812.990	1.5	36461.260	2.5
638.8729	28.01	-3.27	122847.600	3.5	138495.840	4.5
638.8800	14.00	-2.87	48102.323	2.0	63750.390	1.0
638.9011	23.00	-2.01	20830.200	.5	36477.750	.5
638.9110	42.00	-.90	26455.667	0.0	42107.299	0.0
638.9235	29.01	-3.10	135135.600	1.0	150782.600	2.0
638.9235	13.01	-3.55	91271.200	1.0	106918.200	1.0
638.9358	9.02	-1.54	426989.570	3.5	442636.270	3.5
638.9394	28.01	-4.22	101247.370	2.5	116893.980	2.5
638.9450	73.00	-.63	21051.613	0.0	36702.412	0.0
638.9550	21.00	-4.11	17012.980	2.5	32659.210	1.5
638.9570	22.01	-2.23	53121.480	.5	68767.660	1.5
638.9697	25.02	-1.02	215715.410	1.5	231361.280	2.5
638.9800	92.00	-1.51	5887.999	0.0	21537.941	0.0
638.9850	62.01	-1.82	9356.272	0.0	25006.092	0.0
638.9860	28.01	-4.47	119913.330	4.5	135558.800	4.5
638.9877	6.00	-3.51	70743.950	1.0	86389.380	2.0
638.9946	28.01	-3.09	115120.000	2.5	130765.260	3.5
639.0230	44.00	-.74	23229.366	0.0	38878.255	0.0
639.0480	57.01	-2.43	2581.041	0.0	18229.318	0.0
639.0648	28.01	-3.84	118939.530	5.5	134583.070	6.5
639.0677	28.01	-3.02	116191.470	2.5	131834.940	2.5
639.0810	62.01	-1.98	8469.040	0.0	24116.509	0.0
639.0869	28.01	-2.53	113753.040	4.5	129396.040	5.5
639.1122	18.01	-1.43	196119.020	3.5	211761.400	3.5
639.1130	18.01	-2.96	196119.020	3.5	211761.380	4.5
639.1200	25.00	-1.77	34423.270	3.5	50065.460	3.5
639.1265	28.01	-4.25	121090.710	.5	136732.740	1.5
639.1359	17.01	-.83	146013.000	2.0	161654.800	1.0
639.1384	14.00	-2.38	47284.061	1.0	62925.800	1.0
639.1510	28.01	-4.20	118897.940	2.5	134539.370	2.5
639.1596	24.00	-1.46	37244.170	4.0	52885.390	5.0
639.1707	28.01	.24	104503.220	2.5	120144.170	2.5
639.1870	24.00	-3.31	39158.630	4.0	54799.180	5.0
639.1990	14.00	-3.15	45321.848	3.0	60962.105	2.0
639.2210	73.00	-2.47	10888.765	0.0	26532.807	0.0
639.2227	22.00	-2.77	33085.153	0.0	48724.830	1.0
639.2303	22.01	-2.54	53128.170	1.5	68767.660	1.5
639.2347	7.00	-1.97	94830.860	2.5	110470.244	2.5
639.2534	20.00	-1.99	35730.454	2.0	51369.380	2.0
639.2546	26.00	-4.79	18378.187	2.0	34017.084	1.0
639.2651	23.00	-3.35	21646.390	3.5	37285.030	4.5
639.2780	92.00	-2.22	0.000	0.0	15642.647	0.0
639.2851	24.00	-4.84	33934.880	3.0	49573.030	4.0
639.3047	28.01	-3.45	120002.860	3.5	135640.530	4.5
639.3051	23.00	-4.27	11100.650	4.5	26738.310	4.5
639.3231	23.00	-1.35	17054.870	2.5	32692.090	3.5
639.3314	14.00	-2.60	47284.061	1.0	62921.080	2.0
639.3362	23.00	-3.23	22121.170	4.5	37758.070	4.5
639.3534	23.00	-2.77	26397.360	.5	42033.840	1.5
639.3605	26.00	-2.09	19621.004	5.0	35257.309	4.0
639.3607	24.01	-4.97	32855.090	2.5	48491.390	2.5
639.3710	24.00	-1.36	47054.910	4.0	62690.960	5.0
639.3742	28.01	-4.85	101258.010	1.5	116893.980	2.5
639.3804	18.01	-.27	196089.870	2.5	211725.690	3.5
639.3816	25.00	-4.81	34463.370	1.5	50099.160	1.5
639.3841	18.01	-1.57	196089.870	2.5	211725.600	2.5
639.3869	28.01	-.55	121325.090	2.5	136960.750	2.5
639.3873	24.00	-1.12	47055.310	5.0	62690.960	5.0
639.4230	57.00	-.57	3468.273	0.0	19107.373	0.0
639.4233	28.01	-4.63	121325.090	2.5	136959.860	2.5
639.4234	14.00	-3.42	47351.554	2.0	62986.320	2.0
639.4294	28.01	-4.56	121090.710	.5	136725.330	.5
639.4380	28.01	-1.83	122120.370	5.5	137754.780	5.5
639.4410	22.00	-2.93	33090.492	1.0	48724.830	1.0
639.4521	26.00	-4.82	24335.764	2.0	39969.830	3.0
639.4575	28.00	-4.77	42954.234	2.0	58588.168	3.0
639.4593	23.00	-2.11	26480.280	3.5	42114.170	3.5
639.4605	27.00	-4.65	39649.160	3.5	55283.020	2.5
639.4609	21.00	-3.34	17025.360	1.5	32659.210	1.5
639.4610	22.00	-2.10	33090.492	1.0	48724.340	2.0
639.4693	17.00	-1.66	84132.262	2.5	99765.906	2.5
639.4728	18.01	-2.07	194996.490	1.5	210630.050	2.5
639.4753	28.01	-1.42	122120.370	5.5	137753.870	4.5
639.4896	28.01	-3.27	120268.810	3.5	135901.960	2.5
639.4916	28.01	-3.80	97273.830	2.5	112906.930	1.5
639.5008	16.00	-2.04	64888.014	1.0	80520.890	1.0
639.5043	23.01	-7.04	19112.930	4.0	34745.720	3.0
639.5054	22.00	-5.13	14028.470	2.0	29661.232	1.0
639.5145	23.00	-2.81	23608.800	1.5	39241.340	2.5
639.5153	27.00	-.63	30742.650	.5	46375.170	1.5
639.5215	23.00	-1.60	26437.680	1.5	42070.050	2.5
639.5450	92.00	-1.72	0.000	0.0	15636.116	0.0
639.5477	22.00	-1.88	12118.394	4.0	27750.124	5.0
639.5546	25.02	-.87	179339.590	2.5	194971.150	2.5
639.5743	25.00	-2.64	47452.160	.5	63083.240	1.5
639.5999	16.00	-2.52	64890.436	0.0	80520.890	1.0
639.6062	29.01	-4.72	130945.000	1.0	146575.300	2.0
639.6189	28.01	-3.49	120271.970	2.5	135901.960	2.5
639.6364	22.00	-4.35	30060.328	4.0	45689.890	3.0
639.6385	22.00	-4.77	25926.820	4.0	41556.330	5.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
639.6389	24.00	-2.99	31048.850	1.0	46678.350	1.0
639.6488	16.00	-1.82	64891.632	2.0	80520.890	1.0
639.6491	27.00	-1.53	33449.180	.5	49078.430	1.5
639.6569	18.01	-1.61	196103.310	4.5	211732.370	4.5
639.6856	24.00	-3.46	35618.510	1.0	51246.870	1.0
639.6917	24.00	-3.29	31048.850	1.0	46677.060	2.0
639.7003	28.01	-3.60	114942.420	1.5	130570.420	.5
639.7097	28.01	-3.95	120002.860	3.5	135630.630	2.5
639.7180	92.00	-1.48	6936.547	0.0	22568.435	0.0
639.7192	18.01	-1.52	195031.120	2.5	210658.660	2.5
639.7237	18.01	-2.07	195031.120	2.5	210658.550	1.5
639.7265	23.00	-3.10	20789.130	2.5	36416.490	1.5
639.7282	16.01	-1.02	114230.750	2.5	129858.070	1.5
639.7490	25.02	-4.84	121197.050	2.5	136823.860	3.5
639.7601	28.01	-3.27	120002.860	3.5	135629.400	3.5
639.7695	28.01	.87	104147.290	5.5	119773.600	6.5
639.7965	6.00	-1.89	70743.950	1.0	86369.600	2.0
639.8000	59.01	-1.75	8388.382	0.0	24018.266	0.0
639.8006	28.01	-2.82	120002.860	3.5	135628.410	4.5
639.8022	16.01	-1.01	114162.200	.5	129787.710	.5
639.8104	23.00	-.60	26738.310	4.5	42363.620	3.5
639.8117	28.01	-3.09	119913.330	4.5	135538.610	5.5
639.8158	25.02	-.20	179683.610	4.5	195308.790	4.5
639.8252	28.01	-.04	118442.810	1.5	134067.760	1.5
639.8293	24.00	-4.82	47021.750	1.0	62646.600	2.0
639.8390	7.00	-3.43	94770.850	.5	110395.463	1.5
639.8522	21.00	-1.50	18855.760	1.5	34480.050	2.5
639.8658	17.00	-.57	83894.037	3.5	99517.994	4.5
639.8731	29.01	-3.56	131312.700	3.0	146936.480	2.0
639.8760	23.00	-2.47	18805.050	.5	34428.760	1.5
639.8860	76.00	-1.02	25487.776	0.0	41115.560	0.0
639.9050	57.01	-.64	21212.928	0.0	36840.248	0.0
639.9153	7.01	-2.73	187091.370	2.0	202714.120	1.0
639.9210	18.01	-1.92	143107.600	2.5	158730.210	2.5
639.9222	28.01	-.77	122120.370	5.5	137742.950	5.5
639.9247	24.00	-2.64	47048.480	3.0	62671.000	4.0
639.9280	28.01	-4.24	115108.090	2.5	130730.530	2.5
639.9304	18.01	-2.89	196103.310	4.5	211725.690	3.5
639.9308	26.02	-3.12	186712.020	1.0	202334.390	1.0
639.9427	25.02	-.23	176390.670	2.5	192012.750	1.5
639.9501	17.01	-1.48	146013.000	2.0	161634.900	2.0
639.9662	26.00	-3.42	32133.977	2.0	47755.485	3.0
639.9753	20.00	-1.18	35730.454	2.0	51351.740	1.0
640.0013	26.00	-.63	29056.312	3.0	44676.963	4.0
640.0091	22.01	-5.27	24961.340	1.5	40581.800	2.5
640.0111	25.02	-1.30	179228.690	1.5	194849.100	1.5
640.0167	22.00	-3.06	26564.385	3.0	42184.660	4.0
640.0288	15.00	-2.31	65450.020	1.5	81070.000	1.5
640.0321	26.00	-4.38	7376.762	4.0	22996.661	4.0
640.0360	92.01	-2.92	5323.396	0.0	20947.517	0.0
640.0386	28.01	-3.20	120002.860	3.5	135622.600	3.5
640.0400	70.00	-.55	27504.214	0.0	43128.237	0.0
640.0439	28.01	-2.37	93528.440	3.5	109148.050	4.5
640.0480	28.01	-3.55	121146.980	2.5	136766.490	2.5
640.0595	26.01	-3.95	54904.500	3.5	70523.730	3.5
640.0605	14.00	-2.62	48102.323	2.0	63721.530	2.0
640.0648	23.00	-1.52	20789.130	2.5	36408.230	1.5
640.0813	13.01	-3.09	110087.500	2.0	125706.200	1.0
640.0849	24.00	-1.17	47055.310	5.0	62673.920	6.0
640.0853	25.01	-3.58	53597.130	2.0	69215.730	1.0
640.0866	6.00	-3.38	70743.950	1.0	86362.520	1.0
640.0930	63.00	-.37	12985.861	0.0	28608.591	0.0
640.1009	26.01	-8.56	27620.390	2.5	43238.610	2.5
640.1077	10.00	-1.65	151038.452	1.0	166656.508	1.0
640.1337	23.00	-3.09	22313.990	5.5	37931.410	5.5
640.1377	22.00	-3.06	27614.667	4.0	43231.990	4.0
640.1435	9.00	-1.97	117391.950	.5	133009.130	.5
640.1439	7.01	-2.89	211103.630	3.0	226720.800	2.0
640.1681	25.00	-1.71	47466.660	1.5	63083.240	1.5
640.1848	7.00	-2.29	94830.860	2.5	110447.032	1.5
640.1849	28.01	-4.35	118923.200	3.5	134539.370	2.5
640.1882	24.00	-1.18	47054.910	4.0	62671.000	4.0
640.1886	28.01	.71	120903.200	3.5	136519.280	4.5
640.1892	22.00	-4.93	27418.015	2.0	43034.080	1.0
640.2010	39.00	-2.73	483.945	0.0	16104.039	0.0
640.2046	24.00	-3.21	47055.310	5.0	62671.000	4.0
640.2083	27.00	-4.21	33462.830	2.5	49078.430	1.5
640.2100	22.00	-1.50	28638.832	2.0	44254.390	3.0
640.2202	26.01	-9.53	26352.800	4.5	41968.110	5.5
640.2239	28.01	-3.69	120002.860	3.5	135618.080	2.5
640.2246	10.00	.36	134041.840	2.0	149657.042	3.0
640.2288	28.01	-.58	104298.230	4.5	119913.330	4.5
640.2320	15.00	-4.21	65787.380	3.5	81402.400	2.5
640.2351	7.00	-1.97	94770.850	.5	110385.795	.5
640.2390	28.01	-.28	122120.370	5.5	137735.220	6.5
640.2407	21.00	-4.55	18000.250	2.5	33615.060	1.5
640.2538	24.00	-1.57	47047.470	2.0	62661.960	3.0
640.2606	28.00	-2.53	34163.294	2.0	49777.619	3.0
640.2788	18.01	-4.95	186815.960	3.5	202429.840	3.5
640.2830	28.00	-1.29	43258.792	4.0	58872.570	4.0
640.2952	24.00	-1.89	47048.480	3.0	62661.960	3.0
640.2960	25.00	-1.29	46901.130	2.5	62514.590	2.5
640.2993	23.00	-8.59	10892.500	3.5	26505.880	2.5
640.3005	18.01	.03	196119.020	3.5	211732.370	4.5
640.3137	23.01	-5.39	19132.690	2.0	34745.720	3.0
640.3150	76.00	.26	32908.268	0.0	48525.581	0.0
640.3190	28.01	-2.79	118914.340	4.5	134527.240	3.5
640.3313	29.01	-.32	122416.100	0.0	138026.700	1.0
640.3358	24.00	-4.66	31355.210	2.0	46967.700	2.0
640.3528	14.00	-1.90	48102.323	2.0	63714.400	2.0
640.3549	16.00	-1.73	63445.115	1.0	79057.140	2.0
640.3670	28.01	-4.68	121325.090	2.5	136936.820	3.5
640.3740	28.01	-4.24	100475.820	3.5	116087.380	4.5
640.4162	28.01	-3.00	115120.000	2.5	130730.530	2.5
640.4200	74.00	-1.92	14840.984	0.0	30455.737	0.0
640.4208	22.00	-4.47	33114.412	2.0	48724.830	1.0
640.4212	17.00	-2.53	85442.430	1.5	101052.840	2.5
640.4281	28.01	.06	118442.810	1.5	134053.050	2.5
640.4375	28.01	-1.91	118631.950	.5	134241.960	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
640.4409	22.00	-2.56	33114.412	2.0	48724.340	2.0
640.4474	23.02	-.96	145978.270	2.5	161588.040	3.5
640.4683	25.00	-3.76	45130.160	4.5	60739.420	3.5
640.4769	28.01	-4.41	97799.660	1.5	113408.710	1.5
640.5073	27.00	-4.39	17233.680	3.5	32841.990	4.5
640.5081	23.00	-1.74	26505.880	2.5	42114.170	3.5
640.5114	18.01	-3.51	187589.230	2.5	203197.440	3.5
640.5156	9.00	-.92	116987.394	3.5	132595.500	2.5
640.5237	24.00	-2.09	31377.960	4.0	46985.870	5.0
640.5242	7.00	-2.05	94793.460	1.5	110401.356	2.5
640.5332	23.00	-1.81	21603.170	4.5	37210.850	5.5
640.5332	25.00	-2.95	45060.810	3.5	60668.490	4.5
640.5344	28.01	-3.86	97799.660	1.5	113407.310	2.5
640.5356	23.02	-1.10	144772.020	3.5	160379.640	2.5
640.5426	26.00	-4.31	35611.608	3.0	51219.059	3.0
640.5590	24.00	-2.92	47054.910	4.0	62661.960	3.0
640.5746	18.01	-4.41	196119.020	3.5	211725.690	3.5
640.5783	18.01	-3.00	196119.020	3.5	211725.600	2.5
640.5844	9.00	-3.01	117391.950	.5	132998.380	1.5
640.5923	23.00	-2.06	17181.980	4.5	32788.220	4.5
640.5947	24.00	-2.95	35640.690	0.0	51246.870	1.0
640.6009	23.00	-5.44	14514.750	1.5	30120.780	2.5
640.6074	10.01	-3.94	302057.260	.5	317663.130	1.5
640.6110	63.00	-.85	13147.176	0.0	28757.273	0.0
640.6128	28.01	-2.24	119656.250	3.5	135261.990	4.5
640.6240	62.01	-2.03	10888.765	0.0	26498.545	0.0
640.6296	22.01	-2.94	25193.040	2.5	40798.370	3.5
640.6391	2.01	-.72	421353.130	0.0	436962.543	0.0
640.6522	26.02	-4.72	184779.500	4.0	200384.280	3.0
640.6637	12.02	.08	546531.600	1.0	562136.100	2.0
640.6752	20.02	-2.87	347417.050	3.0	363021.270	2.0
640.7000	40.00	-2.70	1209.863	0.0	16817.792	0.0
640.7048	23.00	-3.62	20812.990	1.5	36416.490	1.5
640.7070	14.00	-3.32	47351.554	2.0	62955.000	2.0
640.7101	24.00	-4.32	31364.330	3.0	46967.700	2.0
640.7253	26.01	-3.88	31364.470	1.5	46967.470	2.5
640.7271	17.00	-2.02	85442.430	1.5	101045.386	1.5
640.7292	14.00	-3.08	47351.554	2.0	62954.460	3.0
640.7491	27.00	-1.47	35450.560	3.5	51052.980	3.5
640.7615	26.00	-4.64	32873.623	4.0	48475.740	3.0
640.7662	7.00	-2.06	94793.460	1.5	110395.463	1.5
640.7854	17.00	-4.72	84648.100	2.5	100249.636	2.5
640.7889	28.01	-1.08	105588.890	4.5	121190.340	4.5
640.8028	26.00	-1.34	29732.721	1.0	45333.834	2.0
640.8096	16.00	-1.51	63456.192	2.0	79057.140	2.0
640.8126	22.00	-4.25	27480.047	3.0	43080.920	2.0
640.8144	17.00	-1.25	84988.480	1.5	100589.312	2.5
640.8181	24.00	-3.24	41782.190	4.0	57382.930	5.0
640.8391	28.01	-4.22	114970.190	.5	130570.420	.5
640.8423	28.01	-2.33	120044.950	4.5	135645.100	5.5
640.8470	38.00	.50	18228.600	0.0	33832.949	0.0
640.8550	64.00	-2.10	1693.808	0.0	17297.962	0.0
640.8600	90.01	-3.41	1451.835	0.0	17055.867	0.0
640.8666	25.02	-4.76	121197.050	2.5	136796.610	2.5
640.8696	14.00	-3.09	48264.292	3.0	63863.780	2.0
640.8842	22.00	-3.71	18061.540	1.0	33660.671	1.0
640.8842	24.00	-1.39	47047.470	2.0	62646.600	2.0
640.8896	24.00	-4.14	31987.060	4.0	47586.060	5.0
640.8924	18.01	-.93	195031.120	2.5	210630.050	2.5
640.8945	26.01	-4.34	64286.440	3.5	79885.320	2.5
640.8953	25.00	-2.33	47154.510	1.5	62753.370	2.5
640.8996	17.00	-4.69	84648.100	2.5	100246.855	1.5
640.9101	15.02	.42	176041.000	.5	191639.500	1.5
640.9110	42.00	-1.71	18728.600	0.0	33831.390	0.0
640.9257	24.00	-1.95	47048.480	3.0	62646.600	2.0
640.9520	72.00	-1.10	21616.215	0.0	37218.007	0.0
640.9623	10.01	-.72	303237.910	1.5	318835.140	2.5
640.9724	17.00	-3.67	85442.430	1.5	101039.413	.5
640.9750	10.00	-1.59	150315.861	2.0	165912.782	1.0
640.9850	28.00	-2.31	36600.805	2.0	52197.482	3.0
641.0040	63.00	-.21	12824.546	0.0	28425.073	0.0
641.0063	23.00	-2.81	26437.680	1.5	42033.840	1.5
641.0112	24.00	-2.66	33040.100	2.0	48636.140	3.0
641.0128	11.02	-4.47	444825.000	2.5	460421.000	2.5
641.0301	28.01	-2.66	120044.950	4.5	135640.530	4.5
641.0429	24.00	-4.75	32097.360	6.0	47692.630	7.0
641.0441	23.00	-1.81	20812.990	1.5	36408.230	1.5
641.0822	22.00	-2.83	18061.540	1.0	33655.853	2.0
641.0975	25.01	-2.23	66542.260	5.0	82136.200	4.0
641.0990	57.00	-.95	2984.328	0.0	18582.543	0.0
641.1017	25.02	-.20	216670.580	4.5	232264.420	3.5
641.1033	29.01	-.07	123304.630	1.0	138898.430	1.0
641.1079	26.00	-2.40	38175.332	3.0	53769.020	4.0
641.1120	22.00	-3.31	25493.722	2.0	41087.310	3.0
641.1247	23.00	-2.28	15724.220	3.5	31317.500	4.5
641.1320	63.00	-.05	15163.614	0.0	30761.026	0.0
641.1444	25.01	-4.86	49889.860	3.0	65482.660	3.0
641.1449	22.00	-.73	28788.372	4.0	44381.160	4.0
641.1470	75.00	-1.07	26536.324	0.0	42133.371	0.0
641.1539	7.01	-.16	211103.630	3.0	226696.200	4.0
641.1580	24.00	-2.39	31393.400	5.0	46985.870	5.0
641.1590	92.00	-1.74	7259.177	0.0	22855.932	0.0
641.1617	24.01	-4.77	67448.820	4.5	83041.200	3.5
641.1636	7.00	-2.16	94793.460	1.5	110385.795	.5
641.1659	26.00	-.92	29469.010	2.0	45061.287	3.0
641.1720	25.00	-4.48	53124.090	3.5	68716.220	4.5
641.1884	27.00	-2.45	20500.710	1.5	36092.440	2.5
641.1896	24.01	-4.67	74920.800	.5	90512.500	1.5
641.1896	27.00	-2.52	35450.560	3.5	51042.260	2.5
641.1900	90.00	-1.62	7420.492	0.0	23016.493	0.0
641.1913	28.01	.77	105588.890	4.5	121180.550	5.5
641.1987	28.01	-3.43	115209.850	3.5	130801.330	4.5
641.2086	28.01	.62	104298.230	4.5	119889.470	5.5
641.2127	23.02	-1.54	145978.270	2.5	161569.410	1.5
641.2209	23.02	-.97	147169.340	3.5	162760.280	4.5
641.2209	26.00	-4.78	19788.248	4.0	35379.189	5.0
641.2353	24.00	-3.66	41782.190	4.0	57372.780	4.0
641.2361	23.00	-3.83	15103.770	4.5	30694.340	3.5
641.2424	14.00	-2.56	47284.061	1.0	62874.480	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
641.2649	21.00	-4.67	25014.150	2.5	40604.020	3.5
641.2686	24.00	-4.36	30858.820	2.0	46448.600	1.0
641.2690	23.00	-3.01	26480.280	3.5	42070.050	2.5
641.3124	22.00	-4.85	386.874	4.0	15975.590	3.0
641.3231	7.00	-2.04	94881.790	3.5	110470.244	2.5
641.3303	9.02	-1.41	426558.910	1.5	442147.190	2.5
641.3348	21.00	-3.07	168.340	2.5	15756.510	2.5
641.3447	28.01	-4.36	121178.560	3.5	136766.490	2.5
641.3509	23.00	-4.51	10892.500	3.5	26480.280	3.5
641.3550	6.00	-2.38	70743.950	1.0	86331.630	1.0
641.3608	24.01	-3.59	59130.510	1.5	74718.050	1.5
641.3610	90.00	-1.01	13227.833	0.0	28819.676	0.0
641.3646	9.00	-.52	102840.376	.5	118427.823	1.5
641.3723	16.01	-1.73	114200.450	1.5	129787.710	.5
641.3945	25.00	-1.99	30354.210	3.5	45940.930	2.5
641.4168	14.00	-2.45	49060.601	1.0	64646.780	2.0
641.4464	29.01	-.27	123556.640	2.0	139142.100	2.0
641.4581	28.00	-2.17	33500.854	3.0	49086.030	4.0
641.4665	27.00	-2.57	36875.130	1.5	52460.100	2.5
641.4694	29.01	-1.65	118142.970	3.0	133727.870	2.0
641.4719	24.00	-2.90	33934.880	3.0	49519.720	3.0
641.4720	45.00	-.29	28714.077	0.0	44303.222	0.0
641.4739	28.01	-3.12	98467.250	3.5	114052.040	3.5
641.4796	28.00	-2.42	33590.159	4.0	49174.811	4.0
641.4879	28.01	-3.40	120044.950	4.5	135629.400	3.5
641.4980	14.00	-2.40	47351.554	2.0	62935.760	3.0
641.5036	24.00	-3.35	33935.650	2.0	49519.720	3.0
641.5254	28.01	-4.65	119909.720	1.5	135493.260	1.5
641.5287	28.01	-2.78	120044.950	4.5	135628.410	4.5
641.5369	28.01	-2.95	115108.090	2.5	130691.350	1.5
641.5461	16.00	-1.36	63474.101	3.0	79057.140	2.0
641.5493	26.00	-4.46	35767.546	4.0	51350.505	4.0
641.5855	28.01	-2.69	100010.170	.5	115592.250	1.5
641.5911	22.00	-4.69	27498.975	3.0	43080.920	2.0
641.6003	23.00	-3.80	21841.450	2.5	37423.170	1.5
641.6100	90.01	-2.51	9356.272	0.0	24942.064	0.0
641.6312	18.00	-1.40	104102.144	1.0	119683.113	2.0
641.6314	9.00	-1.34	117164.006	2.5	132744.970	1.5
641.6473	25.01	-4.00	65567.070	2.0	81147.650	2.0
641.6529	14.00	-4.04	45276.188	1.0	60856.630	1.0
641.6734	22.00	-2.47	27750.124	5.0	43330.070	5.0
641.6806	23.00	-5.27	14514.750	1.5	30094.520	1.5
641.6915	26.00	-2.44	38678.015	2.0	54257.520	2.0
641.6922	26.01	-2.92	31387.980	2.5	46967.470	2.5
641.6979	23.00	-2.17	15688.800	2.5	31268.150	3.5
641.7000	12.02	-1.12	548720.700	1.0	564300.000	0.0
641.7056	7.00	-3.27	94770.850	.5	110350.014	.5
641.7235	22.00	-2.97	22081.198	2.0	37659.927	3.0
641.7436	18.01	-.21	195031.120	2.5	210609.360	3.5
641.7500	62.01	-1.91	8630.355	0.0	24212.747	0.0
641.7523	23.00	-2.64	20830.200	.5	36408.230	1.5
641.7539	6.00	-2.97	70743.950	1.0	86321.940	0.0
641.7568	24.00	-2.92	39158.630	4.0	54736.550	4.0
641.7570	44.00	.25	34602.076	0.0	50184.298	0.0
641.7647	23.00	-2.97	21603.170	4.5	37180.900	4.5
641.7659	17.01	-2.35	146330.000	1.0	161907.700	2.0
641.7680	28.01	-3.88	120044.950	4.5	135622.600	3.5
641.7697	20.00	-2.02	35818.713	3.0	51396.320	3.0
641.7717	24.01	-4.88	52298.120	3.5	67875.680	3.5
641.7779	27.00	-1.85	18775.010	.5	34352.420	1.5
641.7787	28.01	-4.27	120002.860	3.5	135580.250	4.5
641.7970	70.00	-.55	27504.214	0.0	43085.465	0.0
641.8038	28.01	-3.71	101247.370	2.5	116824.150	2.5
641.8310	18.01	-1.59	196621.880	3.5	212198.000	3.5
641.8312	28.00	-2.49	42954.234	2.0	58530.350	3.0
641.8355	18.01	-.04	196621.880	3.5	212197.890	4.5
641.8607	24.00	-2.15	33060.740	3.0	48636.140	3.0
641.8685	28.01	-.08	104081.040	4.5	119656.250	3.5
641.8702	23.00	-2.23	17116.920	3.5	32692.090	3.5
641.8792	28.01	-.75	121385.800	1.5	136960.750	2.5
641.8867	7.01	-2.99	211103.630	3.0	226678.400	2.0
641.8895	24.01	-3.96	53923.570	4.5	69498.270	4.5
641.9085	28.01	-3.66	121325.090	2.5	136899.330	1.5
641.9098	22.00	-1.52	17540.205	3.0	33114.412	2.0
641.9114	28.01	-3.52	121192.320	3.5	136766.490	2.5
641.9159	28.01	-4.58	121385.800	1.5	136959.860	2.5
641.9225	17.01	-1.78	146333.800	2.0	161907.700	2.0
641.9312	6.00	-3.20	70743.950	1.0	86317.640	2.0
641.9349	13.01	-.51	133679.300	3.0	149252.900	4.0
641.9349	13.01	-.33	133679.300	3.0	149252.900	4.0
641.9349	13.01	-4.47	133679.300	3.0	149252.900	3.0
641.9658	26.00	-2.75	31805.059	3.0	47377.909	4.0
641.9786	23.00	-1.85	26604.770	3.5	42177.310	4.5
641.9827	24.01	-4.37	53271.070	2.5	68843.510	3.5
641.9860	7.00	-1.80	94830.860	2.5	110403.220	3.5
641.9860	7.01	-1.94	211103.630	3.0	226675.990	3.0
641.9864	28.01	-4.63	121194.140	2.5	136766.490	2.5
641.9920	26.00	-.82	38175.332	3.0	53747.547	3.0
641.9950	29.01	-2.74	120092.200	2.0	135664.340	1.0
641.9959	28.01	-.17	105668.780	2.5	121240.900	3.5
641.9975	28.01	-2.58	102742.740	1.5	118314.820	2.5
642.0029	23.00	-4.09	14548.830	2.5	30120.780	2.5
642.0066	26.00	-3.09	36940.600	2.0	52512.460	1.0
642.0210	23.00	-2.19	21603.170	4.5	37174.680	3.5
642.0272	23.00	-4.53	35012.910	.5	50584.270	1.5
642.0276	28.01	-3.43	115120.000	2.5	130691.350	1.5
642.0308	28.00	-4.91	42954.234	2.0	58525.507	1.0
642.0313	22.00	-2.77	25797.600	3.0	41368.860	4.0
642.0375	28.01	-4.76	117872.780	2.5	133443.890	2.5
642.0449	28.01	-3.66	121161.810	1.5	136732.740	1.5
642.0628	7.00	-1.61	94830.860	2.5	110401.356	2.5
642.0672	24.00	-4.98	33906.650	1.0	49477.040	1.0
642.0672	24.00	-4.49	33906.650	1.0	49477.040	2.0
642.0862	24.01	-3.60	52298.120	3.5	67868.050	2.5
642.0874	30.02	-4.02	218040.500	3.0	233610.400	2.0
642.0907	25.02	.27	215917.520	4.5	231487.340	4.5
642.1047	28.01	-4.43	121385.800	1.5	136955.280	.5
642.1204	12.02	-.34	548720.700	1.0	564289.600	1.0
642.1270	25.01	-4.18	55371.300	3.0	70940.240	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
642.1355	26.00	-2.24	18378.187	2.0	33946.920	2.0
642.1505	28.00	-1.16	33590.159	4.0	49158.529	5.0
642.1588	25.00	-2.43	42053.730	2.5	57621.900	1.5
642.1687	24.01	-4.70	36101.820	3.5	51669.750	2.5
642.1695	9.02	-1.13	442147.190	2.5	457715.100	2.5
642.1703	27.00	-1.35	33150.680	1.5	48718.570	2.5
642.1707	10.00	-1.97	151038.452	1.0	166606.333	0.0
642.1922	20.02	-1.37	328582.450	1.0	344149.810	2.0
642.1992	10.01	-1.25	303237.910	1.5	318805.100	2.5
642.2033	21.00	-1.87	18855.760	1.5	34422.850	1.5
642.2041	26.00	-3.33	37046.000	4.0	52613.072	5.0
642.2198	18.01	-3.30	189654.780	2.5	205221.470	1.5
642.2339	10.01	-2.38	303237.910	1.5	318804.260	1.5
642.2425	28.01	-4.45	101258.010	1.5	116824.150	2.5
642.2436	9.00	-1.36	118405.267	.5	133971.380	1.5
642.2478	22.00	-1.47	31628.668	5.0	47194.680	4.0
642.2719	17.00	-2.34	84485.309	1.5	100050.736	1.5
642.2904	18.01	-.16	196633.020	2.5	212198.000	3.5
642.2941	9.00	-4.44	102840.376	.5	118405.267	.5
642.3060	7.00	-2.22	94830.860	2.5	110395.463	1.5
642.3139	28.01	-.75	119773.600	6.5	135338.010	5.5
642.3213	23.00	-2.28	15664.750	1.5	31228.980	2.5
642.3238	23.00	-3.11	26505.880	2.5	42070.050	2.5
642.3248	14.00	-2.81	48020.074	1.0	63584.220	1.0
642.3444	26.00	-2.74	40534.180	3.0	56097.850	3.0
642.3720	14.00	-4.12	45293.629	2.0	60856.630	1.0
642.3779	29.01	.39	123556.640	2.0	139119.500	3.0
642.3787	26.02	-3.40	184951.620	3.0	200514.460	4.0
642.3985	23.00	-4.46	35092.360	1.5	50654.720	2.5
642.4026	25.00	-4.14	42143.570	1.5	57705.830	.5
642.4068	23.00	-3.46	15270.420	1.5	30832.580	2.5
642.4146	18.01	-1.80	187589.230	2.5	203151.200	2.5
642.4370	42.00	-.92	20003.065	0.0	35568.794	0.0
642.4435	9.02	-.91	426733.040	2.5	442294.310	1.5
642.4443	28.01	-2.12	120044.950	4.5	135606.200	5.5
642.4520	64.00	-1.48	7581.807	0.0	23147.172	0.0
642.4526	20.02	.31	328588.760	3.0	344149.810	2.0
642.4585	20.00	-3.35	35835.413	2.0	51396.320	3.0
642.4683	28.01	-3.86	99559.330	2.5	115120.000	2.5
642.4847	28.00	-1.74	33610.916	2.0	49171.187	1.0
642.4890	92.01	-2.77	5323.396	0.0	20887.865	0.0
642.4910	24.00	-4.31	33906.650	1.0	49466.770	2.0
642.4972	23.00	-.49	26604.770	3.5	42164.740	3.5
642.5083	28.01	-.92	118774.760	.5	134334.460	1.5
642.5125	27.00	-2.89	16467.900	4.5	32027.500	3.5
642.5215	24.00	-3.85	30965.460	3.0	46524.840	2.0
642.5221	14.00	-2.47	48020.074	1.0	63579.440	0.0
642.5364	28.01	.03	105668.780	2.5	121227.800	2.5
642.5426	28.01	-4.49	118294.170	3.5	133853.040	4.5
642.5492	25.02	.24	216194.050	5.5	231752.760	5.5
642.5566	24.00	-3.08	35501.260	3.0	51059.790	4.0
642.5621	22.00	-3.01	26494.322	2.0	42052.720	3.0
642.5633	24.00	-2.58	35618.510	1.0	51176.880	0.0
642.5695	17.00	-2.33	84688.637	.5	100246.855	1.5
642.6037	28.01	-3.98	99442.860	4.5	115000.250	3.5
642.6170	40.00	-.62	22019.503	0.0	37580.872	0.0
642.6339	28.01	-4.50	118294.170	3.5	133850.830	3.5
642.6383	7.00	-3.27	94793.460	1.5	110350.014	.5
642.6409	25.02	-3.96	177185.180	.5	192741.670	.5
642.6554	14.00	-2.39	49060.601	1.0	64616.740	2.0
642.6636	28.01	-3.38	120002.860	3.5	135558.800	4.5
642.6640	62.01	-1.07	13953.751	0.0	29513.982	0.0
642.6669	28.01	-.76	106369.300	1.5	121925.160	.5
642.6855	28.01	-3.23	115209.850	3.5	130765.260	3.5
642.6946	25.02	-1.04	179339.590	2.5	194894.780	1.5
642.7062	10.01	-3.36	292546.700	.5	308101.610	1.5
642.7070	28.01	-.61	106620.530	3.5	122175.420	2.5
642.7281	24.01	-3.17	52321.300	4.5	67875.680	3.5
642.7310	22.00	-2.14	25926.820	4.0	41481.130	5.0
642.7698	26.02	-4.30	184951.620	3.0	200504.990	3.0
642.7715	25.00	-1.74	41932.640	3.5	57485.970	2.5
642.8099	24.00	-3.29	35398.020	4.0	50950.420	3.0
642.8290	63.00	-.46	15163.614	0.0	30719.851	0.0
642.8317	7.00	-1.60	94770.850	.5	110322.721	1.5
642.8335	28.01	-4.07	119909.720	1.5	135461.550	2.5
642.8421	22.00	-.68	28702.768	3.0	44254.390	3.0
642.8595	29.01	-4.78	130945.000	2.0	146496.200	3.0
642.8600	73.00	-2.00	11130.738	0.0	26686.224	0.0
642.8773	28.01	.48	118379.110	2.5	133929.880	3.5
642.8791	22.00	-3.38	25643.695	3.0	41194.420	3.0
642.8815	20.00	-.94	35818.713	3.0	51369.380	2.0
642.9145	23.02	-1.94	144772.020	3.5	160321.890	2.5
642.9244	6.00	-3.98	73975.910	0.0	89525.540	1.0
642.9246	17.00	-2.42	84132.262	2.5	99681.887	1.5
642.9455	28.01	-1.44	118774.760	.5	134323.880	1.5
642.9472	29.01	-2.19	121524.670	3.0	137073.750	2.0
642.9604	28.01	-2.61	99559.330	2.5	115108.090	2.5
642.9625	22.00	-1.60	31489.451	4.0	47038.160	3.0
642.9859	28.00	-1.27	33610.916	2.0	49159.060	2.0
642.9906	27.00	-2.91	17233.680	3.5	32781.710	2.5
642.9964	25.02	-3.97	177687.540	3.5	193235.430	2.5
643.0038	28.00	-3.50	44314.980	4.0	59862.690	5.0
643.0059	28.01	-3.31	115209.850	3.5	130757.510	4.5
643.0257	26.02	-4.87	135990.620	4.0	151537.800	4.0
643.0290	24.01	-4.82	67334.200	3.5	82881.300	2.5
643.0290	27.00	-1.15	32654.500	2.5	48201.600	3.5
643.0423	23.00	-1.29	15770.720	4.5	31317.500	4.5
643.0460	41.00	-1.97	5887.999	0.0	21438.986	0.0
643.0634	8.01	-1.88	232462.830	2.5	248009.100	1.5
643.0675	23.00	-3.86	17242.050	5.5	32788.220	4.5
643.0790	73.00	-1.28	12179.286	0.0	27729.475	0.0
643.0791	9.02	-1.68	426733.040	2.5	442278.930	2.5
643.0832	28.01	-4.28	119889.470	5.5	135435.260	4.5
643.0852	26.00	-2.20	17550.180	3.0	33095.922	4.0
643.0874	23.00	-4.97	14548.830	2.5	30094.520	1.5
643.1000	62.01	-1.76	10888.765	0.0	26438.446	0.0
643.1035	24.00	-1.29	47125.700	3.0	62671.000	4.0
643.1072	27.00	-2.65	33173.360	3.5	48718.570	2.5
643.1213	28.01	-3.07	113753.040	4.5	129297.910	3.5
643.1254	18.01	-3.82	189040.870	1.5	204585.640	2.5
643.1556	18.00	-2.62	105617.315	2.0	121161.356	1.0
643.1602	23.00	-1.48	15724.220	3.5	31268.150	3.5
643.1756	9.00	-2.83	118427.823	1.5	133971.380	1.5
643.1776	26.02	-3.52	135990.620	4.0	151534.130	3.0
643.1846	23.00	-4.97	17116.920	3.5	32660.260	2.5
643.1960	62.01	-2.04	11292.053	0.0	26839.413	0.0
643.1962	22.01	-4.01	47625.170	2.5	63168.230	2.5
643.1974	20.02	-.85	328606.780	2.0	344149.810	2.0
643.1974	20.02	-.16	323655.060	2.0	339198.090	1.0
643.1994	28.00	-2.53	28569.210	2.0	44112.192	1.0
643.2121	22.00	-3.32	26564.385	3.0	42107.060	4.0
643.2148	26.02	-2.56	186791.780	2.0	202334.390	1.0
643.2243	25.02	.06	216533.060	6.5	232075.440	6.5
643.2308	17.00	-2.79	85917.937	.5	101460.160	1.5
643.2334	24.00	-3.32	33934.880	3.0	49477.040	2.0
643.2409	29.01	-1.60	108014.660	3.0	123556.640	2.0
643.2653	24.00	-3.73	33935.650	2.0	49477.040	1.0
643.2653	24.00	-3.38	33935.650	2.0	49477.040	2.0
643.2661	23.00	-4.35	19078.150	3.5	34619.520	2.5
643.2665	26.01	-8.74	23317.600	2.5	38858.960	2.5
643.2730	70.01	-.98	32182.351	0.0	47727.850	0.0
643.2939	24.00	-3.71	31364.330	3.0	46905.030	4.0
643.3042	24.00	-3.49	38537.680	5.0	54078.130	5.0
643.3154	23.00	-1.66	15688.800	2.5	31228.980	2.5
643.3220	41.00	-2.25	5242.739	0.0	20787.054	0.0
643.3337	14.00	-3.41	45276.188	1.0	60815.925	2.0
643.3377	25.02	-4.06	124754.800	3.5	140294.440	3.5
643.3377	23.00	-3.40	21963.500	3.5	37503.140	2.5
643.3386	7.01	-.75	211103.630	3.0	226643.250	4.0
643.3431	14.02	-2.66	242473.860	4.0	258013.370	3.0
643.3457	14.00	-1.79	48102.323	2.0	63641.770	3.0
643.3601	14.02	-2.56	242474.270	4.0	258013.370	3.0
643.3688	18.01	-3.70	186890.950	2.5	202429.840	3.5
643.3771	28.01	.53	121050.660	2.5	136589.350	3.5
643.3808	28.01	-3.54	121194.140	2.5	136732.740	1.5
643.3849	26.01	-3.13	50157.610	4.5	65696.110	4.5
643.3850	15.00	-3.74	65585.000	2.5	81123.500	2.5
643.3883	24.00	-3.25	35862.820	4.0	51401.240	5.0
643.3920	25.00	-2.72	45130.160	4.5	60668.490	4.5
643.4036	23.02	-1.13	145143.430	4.5	160681.480	3.5
643.4116	9.00	-.96	118427.823	1.5	133965.680	2.5
643.4135	28.01	-2.67	103025.580	2.5	118563.390	3.5
643.4330	40.00	-.09	22422.791	0.0	37964.425	0.0
643.4603	28.01	-2.84	100609.010	2.5	116145.690	3.5
643.4641	7.01	-1.52	211103.630	3.0	226640.220	3.0
643.4777	24.00	-.88	47125.700	3.0	62661.960	3.0
643.4833	17.00	-1.05	84132.262	2.5	99668.388	3.5
643.5000	39.00	-1.59	483.945	0.0	16023.961	0.0
643.5146	23.00	-1.75	15664.750	1.5	31200.120	1.5
643.5294	15.01	-1.17	87805.000	2.0	103340.010	2.0
643.5394	28.01	.05	104298.230	4.5	119833.000	5.5
643.5411	22.00	-2.55	18145.400	2.0	33680.130	3.0
643.5502	23.00	-1.89	21646.390	3.5	37180.900	4.5
643.5510	21.00	-2.73	18855.760	1.5	34390.250	.5
643.5613	7.01	-4.81	149076.520	2.0	164610.760	1.0
643.5727	20.00	-3.03	35835.413	2.0	51369.380	2.0
643.5794	28.00	-3.88	43654.974	3.0	59188.780	3.0
643.5862	10.01	-3.38	302247.780	3.5	317781.420	2.5
643.6186	28.01	-1.72	118803.820	6.5	134336.680	5.5
643.6239	15.01	-1.15	107923.570	2.0	123456.300	1.0
643.6389	26.00	-2.58	33765.291	2.0	49297.660	1.0
643.6588	24.00	-4.42	33934.880	3.0	49466.770	2.0
643.6588	24.01	-4.08	53051.550	1.5	68583.440	2.5
643.6646	25.02	-.35	176641.140	3.5	192172.890	2.5
643.6707	7.00	-1.39	94830.860	2.5	110362.462	3.5
643.6907	24.00	-4.79	33935.650	2.0	49466.770	2.0
643.6915	24.02	-4.74	138362.400	2.0	153893.500	2.0
643.7023	24.00	-3.63	31106.370	4.0	46637.210	3.0
643.7077	24.00	-3.83	35870.530	4.0	51401.240	5.0
643.7180	39.00	-.98	18389.915	0.0	33924.668	0.0
643.7379	15.00	-3.92	66360.120	1.5	81890.100	2.5
643.7541	28.01	-4.02	118803.820	6.5	134333.410	6.5
643.7541	28.01	-3.31	118803.820	6.5	134333.410	5.5
643.7599	26.02	-4.25	114325.350	5.0	129854.800	6.0
643.7603	18.01	-1.70	144709.910	.5	160239.350	1.5
643.7640	63.01	-1.09	10566.135	0.0	26099.778	0.0
643.7677	7.00	-4.69	94793.460	1.5	110322.721	1.5
643.7703	14.00	-2.91	47284.061	1.0	62813.260	1.0
643.7992	28.00	-3.11	43464.019	1.0	58992.520	2.0
643.8080	23.00	-1.50	21646.390	3.5	37174.680	3.5
643.8126	18.01	-2.19	190592.170	1.5	206120.350	2.5
643.8217	26.02	-2.73	182810.660	5.0	198338.620	4.0
643.8217	23.00	-3.80	26505.880	2.5	42033.840	1.5
643.8266	28.01	-3.42	101366.140	2.5	116893.980	2.5
643.8395	27.01	-3.37	69059.590	3.0	84587.120	4.0
643.8470	48.00	.69	43474.403	0.0	59006.043	0.0
643.8511	22.00	-2.90	26657.409	4.0	42184.660	4.0
643.8586	24.00	-3.14	31377.960	4.0	46905.030	4.0
643.8660	27.00	-6.40	14036.280	1.5	29563.170	1.5
643.8702	23.00	-4.44	35225.040	2.5	50751.830	3.5
643.8732	26.00	-2.94	35767.546	4.0	51294.262	3.0
643.8785	28.00	-3.39	44336.100	4.0	59862.690	5.0
643.8805	25.01	-4.69	52383.720	4.0	67910.260	4.0
643.8963	26.02	-4.37	136008.740	3.0	151534.900	2.0
643.9029	25.02	-3.55	124754.800	3.5	140280.800	4.5
643.9075	20.00	.42	20371.000	3.0	35896.889	4.0
643.9075	20.00	.15	20371.000	3.0	35896.889	4.0
643.9299	25.00	-.08	46901.130	2.5	62426.480	3.5
643.9394	28.01	-.95	118809.340	1.5	134334.460	1.5
643.9618	25.02	-3.11	115762.600	1.5	131287.180	.5
643.9668	28.01	-2.17	106620.530	3.5	122144.990	2.5
643.9705	22.00	-6.14	6556.828	1.0	22081.198	2.0
643.9905	28.01	-4.71	118379.110	2.5	133903.000	1.5
643.9930	63.00	-.90	15324.929	0.0	30853.048	0.0
644.0324	17.00	-3.41	84648.100	2.5	100170.980	1.5
644.0328	24.00	-3.19	33113.270	4.0	48636.140	3.0
644.0440	28.01	-3.03	116312.340	1.5	131834.940	2.5
644.0444	14.00	-4.23	47284.061	1.0	62806.650	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
644.0566	14.00	-2.48	45293.629	2.0	60815.925	2.0
644.0925	7.00	-1.14	94881.790	3.5	110403.220	3.5
644.0967	28.01	.37	118803.820	6.5	134325.150	7.5
644.0971	25.00	-1.36	30419.610	2.5	45940.930	2.5
644.1140	71.00	-1.12	22100.161	0.0	37625.363	0.0
644.1145	24.00	-1.02	47125.700	3.0	62646.600	2.0
644.1236	28.01	-4.70	115209.850	3.5	130730.530	2.5
644.1436	25.00	-3.32	47903.800	4.5	63424.000	3.5
644.1444	28.01	.71	106620.530	3.5	122140.710	4.5
644.1610	29.01	.35	121524.670	3.0	137044.450	4.0
644.1699	7.00	-2.37	94881.790	3.5	110401.356	2.5
644.1893	18.01	-1.72	195123.540	5.5	210642.640	5.5
644.1909	24.00	-3.83	33934.880	3.0	49453.940	4.0
644.1909	18.01	.17	195123.540	5.5	210642.600	6.5
644.1930	23.00	-2.22	26738.310	4.5	42257.320	5.5
644.2013	23.02	-1.27	145647.000	1.5	161165.810	2.5
644.2067	28.01	-3.74	113753.040	4.5	129271.720	3.5
644.2170	23.00	-2.52	23608.800	1.5	39127.230	1.5
644.2237	28.01	-1.69	118809.340	1.5	134327.610	2.5
644.2698	25.00	-4.43	37586.030	1.5	53103.190	1.5
644.2831	24.00	-2.69	35884.400	5.0	51401.240	5.0
644.2951	24.01	-4.51	36272.660	4.5	51789.210	3.5
644.2984	27.00	-4.82	39649.160	3.5	55165.630	2.5
644.3043	20.00	-1.99	35835.413	2.0	51351.740	1.0
644.3121	25.00	-1.30	41789.480	4.5	57305.620	3.5
644.3408	28.01	-2.96	122047.290	3.5	137562.740	3.5
644.3474	25.00	-4.69	37586.030	1.5	53101.320	.5
644.3482	22.00	-4.23	18145.400	2.0	33660.671	1.0
644.3503	25.00	-1.75	30425.710	1.5	45940.930	2.5
644.3786	28.01	-.92	118809.340	1.5	134323.880	2.5
644.3786	28.01	-.68	118809.340	1.5	134323.880	1.5
644.3847	17.00	-2.94	84988.480	1.5	100502.871	1.5
644.3856	18.01	.10	195128.270	4.5	210642.640	5.5
644.3894	24.00	-4.95	31364.330	3.0	46878.610	3.0
644.3897	22.00	-1.28	29971.078	4.0	45485.350	5.0
644.3917	9.00	-4.05	118405.267	.5	133919.490	1.5
644.3931	24.00	-2.19	37205.880	3.0	52720.070	4.0
644.4072	28.01	-3.63	120044.950	4.5	135558.800	4.5
644.4094	26.00	-4.73	35856.386	2.0	51370.184	2.0
644.4201	28.01	-4.37	121385.800	1.5	136899.340	2.5
644.4205	28.01	-1.28	121385.800	1.5	136899.330	1.5
644.4230	28.01	-4.27	100078.780	1.5	115592.250	1.5
644.4267	25.01	-4.50	66644.780	1.0	82158.160	0.0
644.4413	28.01	-.53	118803.820	6.5	134316.850	6.5
644.4434	28.01	-3.42	118803.820	6.5	134316.800	7.5
644.4675	27.00	-1.11	29269.730	4.5	44782.130	4.5
644.4710	10.00	-1.73	150315.861	2.0	165828.175	2.0
644.4824	28.01	-1.21	118442.810	1.5	133954.850	.5
644.4840	44.00	-.02	27342.899	0.0	42859.188	0.0
644.4870	25.02	-.64	215875.730	2.5	231387.660	3.5
644.4890	71.01	-1.31	29778.680	0.0	44794.849	0.0
644.4932	10.01	-3.46	303599.930	3.5	319111.710	4.5
644.4937	10.01	-4.94	303599.930	3.5	319111.700	3.5
644.4995	24.00	-3.51	31393.400	5.0	46905.030	4.0
644.5049	17.01	-3.28	128662.500	2.0	144174.000	3.0
644.5123	23.00	-2.32	15688.800	2.5	31200.120	1.5
644.5130	74.00	-1.37	18873.860	0.0	34389.451	0.0
644.5140	18.01	-2.28	190592.170	1.5	206103.450	1.5
644.5148	24.01	-3.70	73411.940	1.5	88923.200	2.5
644.5173	10.01	-3.57	303600.500	2.5	319111.700	3.5
644.5281	25.01	-3.86	66644.780	1.0	82155.720	1.0
644.5310	23.00	-4.20	19026.340	2.5	34537.210	1.5
644.5452	24.00	-4.70	20523.690	4.0	36034.220	3.0
644.5484	22.00	-3.44	18145.400	2.0	33655.853	2.0
644.5547	29.01	-1.65	121524.670	3.0	137034.970	3.0
644.5626	23.00	-4.08	17181.980	4.5	32692.090	3.5
644.5668	24.01	-3.01	54444.190	3.5	69954.200	2.5
644.5740	40.00	-1.64	7985.094	0.0	23499.217	0.0
644.5875	25.02	-3.64	179339.590	2.5	194849.100	1.5
644.5921	23.00	-3.52	26604.770	3.5	42114.170	3.5
644.6103	26.00	-3.78	32873.623	4.0	48382.585	5.0
644.6329	23.01	-3.19	20980.920	2.0	36489.340	1.0
644.6340	42.00	-.97	25326.461	0.0	40839.140	0.0
644.6437	26.01	-2.15	50187.950	3.5	65696.110	4.5
644.6610	57.01	-.74	22180.818	0.0	37692.847	0.0
644.6649	25.02	-.47	216557.380	3.5	232065.030	2.5
644.6680	38.00	-1.06	18228.600	0.0	33740.460	0.0
644.6798	38.01	-3.98	53286.310	0.0	68797.886	0.0
644.6807	25.00	-2.52	42198.560	.5	57705.830	.5
644.6861	26.01	-7.24	26932.740	.5	42439.880	.5
644.6965	23.00	-3.92	15264.830	5.5	30771.720	4.5
644.6973	26.00	-4.32	29320.050	1.0	44826.920	0.0
644.6994	23.00	-7.96	14514.750	1.5	30021.570	.5
644.7014	24.01	-4.92	74114.480	3.5	89621.250	3.5
644.7121	7.00	-4.51	94793.460	1.5	110299.974	2.5
644.7397	28.01	-1.08	118828.610	2.5	134334.460	1.5
644.7409	26.02	-3.56	182830.760	6.0	198336.580	5.0
644.7699	9.00	-1.48	118405.267	.5	133910.390	.5
644.7746	28.01	-1.70	119833.000	5.5	135338.010	5.5
644.7850	23.00	-2.18	15724.220	3.5	31228.980	2.5
644.7987	28.01	.13	121456.320	1.5	136960.750	2.5
644.8079	21.00	-3.94	168.340	2.5	15672.550	1.5
644.8110	57.00	-2.00	2581.041	0.0	18089.461	0.0
644.8116	23.00	-6.70	11100.650	4.5	26604.770	3.5
644.8130	76.00	.34	40974.020	0.0	56482.392	0.0
644.8133	27.00	-3.31	41041.430	3.5	56545.510	2.5
644.8172	9.00	-2.28	118427.823	1.5	133931.810	2.5
644.8341	17.00	-2.57	85442.430	1.5	100946.010	.5
644.8503	17.00	-3.42	84485.309	1.5	99988.501	2.5
644.8582	26.02	-4.26	182830.760	6.0	198333.760	6.0
644.8703	24.00	-3.66	31280.350	5.0	46783.060	4.0
644.8778	23.01	-4.30	34228.790	3.0	49731.320	2.0
644.9061	18.01	-2.69	195128.270	4.5	210630.120	3.5
644.9148	26.02	-4.27	185003.350	2.0	200504.990	3.0
644.9170	92.00	-1.51	564.603	0.0	16070.474	0.0
644.9240	25.01	-4.91	89519.250	2.0	105020.670	1.0
644.9261	10.01	-4.55	312816.750	4.5	328318.120	3.5
644.9277	25.01	-2.48	66643.010	4.0	82144.340	3.0
644.9377	24.00	-1.34	47189.870	4.0	62690.960	5.0
644.9581	29.01	-4.21	118484.000	3.0	133984.600	3.0
644.9701	23.00	-4.68	34374.810	3.5	49875.120	4.5
644.9808	20.00	-.80	20335.360	1.0	35835.413	2.0
644.9808	20.00	-1.07	20335.360	1.0	35835.413	2.0
644.9980	28.01	-.14	104503.220	2.5	120002.860	3.5
645.0009	16.01	-3.64	140318.800	3.5	155818.370	2.5
645.0067	20.00	-.80	35896.889	4.0	51396.320	3.0
645.0084	27.00	-2.31	17233.680	3.5	32733.070	3.5
645.0247	27.00	-1.84	13795.520	2.5	29294.520	3.5
645.0247	28.01	-1.23	118828.610	2.5	134327.610	2.5
645.0276	28.01	-3.83	118828.610	2.5	134327.540	3.5
645.0340	57.00	-1.34	9598.245	0.0	25101.304	0.0
645.0360	73.00	-1.37	12179.286	0.0	27682.297	0.0
645.0362	17.00	-1.06	84648.100	2.5	100146.822	3.5
645.0508	18.02	-3.31	211004.850	2.0	226503.220	3.0
645.0808	28.01	.03	104646.520	3.5	120144.170	2.5
645.0850	56.00	-.47	9033.000	0.0	24534.833	0.0
645.0900	23.00	-2.27	15770.720	4.5	31268.150	3.5
645.1091	27.00	-1.50	32027.500	3.5	47524.470	4.5
645.1125	23.00	-4.64	35379.110	3.5	50876.000	4.5
645.1382	22.00	-3.00	12118.394	4.0	27614.667	4.0
645.1517	14.00	-1.39	48264.292	3.0	63760.240	3.0
645.1549	26.00	-4.82	29798.960	4.0	45294.830	5.0
645.1549	28.00	-2.81	33590.159	4.0	49086.030	4.0
645.1620	40.00	-2.51	5000.766	0.0	20500.749	0.0
645.1799	28.01	-.34	118828.610	2.5	134323.880	2.5
645.1799	28.01	-.75	118828.610	2.5	134323.880	1.5
645.1953	23.00	-7.22	13801.530	1.5	29296.430	2.5
645.1957	23.01	-3.53	34228.790	3.0	49723.680	4.0
645.2132	22.00	-3.54	25699.950	2.0	41194.420	3.0
645.2162	28.01	-4.71	100592.980	3.5	116087.380	4.5
645.2224	28.01	-1.48	120199.180	1.5	135693.430	2.5
645.2249	24.00	-4.56	7810.820	1.0	23305.010	2.0
645.2296	14.00	-2.48	45321.848	3.0	60815.925	2.0
645.2300	22.00	-3.31	26494.322	2.0	41988.390	3.0
645.2328	23.00	-1.42	9636.960	1.5	25130.960	2.5
645.2328	17.02	-2.59	185838.000	1.5	201332.000	1.5
645.2411	23.00	-3.21	22121.170	4.5	37614.970	3.5
645.2470	28.01	-3.28	120044.950	4.5	135538.610	5.5
645.2612	17.00	-2.67	85244.330	.5	100737.650	.5
645.2665	25.01	-3.11	66643.010	4.0	82136.200	4.0
645.2696	28.00	-3.02	32973.414	4.0	48466.530	5.0
645.2707	28.01	-.82	121180.550	5.5	136673.640	4.5
645.2809	7.00	-1.39	94793.460	1.5	110286.305	2.5
645.2894	28.01	-2.87	116732.510	2.5	132225.150	1.5
645.2937	17.00	-2.39	85735.091	1.5	101227.630	.5
645.2974	25.01	-3.35	52373.180	3.0	67865.630	4.0
645.3199	23.00	-4.89	35092.360	1.5	50584.270	1.5
645.3213	28.00	-4.84	13521.352	2.0	29013.228	2.0
645.3219	7.00	-3.37	94830.860	2.5	110322.721	1.5
645.3300	9.00	-1.29	118427.823	1.5	133919.490	1.5
645.3344	24.00	-3.03	31355.210	2.0	46846.770	3.0
645.3553	27.00	-4.35	27497.060	2.5	42986.120	3.5
645.3602	8.00	-1.32	86625.769	1.0	102116.710	2.0
645.3653	28.01	-2.25	98561.220	2.5	114052.040	3.5
645.3748	56.01	-3.53	57631.640	0.0	73126.512	0.0
645.3803	26.01	-3.85	63948.840	4.5	79439.300	3.5
645.4019	28.01	-4.18	120203.490	2.5	135693.430	3.5
645.4019	28.01	-1.36	120203.490	2.5	135693.430	2.5
645.4136	28.01	-1.03	118563.390	3.5	134053.050	2.5
645.4357	25.02	-4.23	176683.760	2.5	192172.890	2.5
645.4444	8.00	-1.10	86627.790	2.0	102116.710	2.0
645.4520	57.00	-1.36	2581.041	0.0	18074.060	0.0
645.4536	24.00	-4.70	32097.360	6.0	47586.060	5.0
645.4540	28.01	-4.05	52205.950	3.5	67694.640	2.5
645.4688	22.00	-2.56	26564.385	3.0	42052.720	3.0
645.4704	26.00	-2.64	32873.623	4.0	48361.920	4.0
645.4728	17.00	-4.06	85735.091	1.5	101223.330	2.5
645.4870	59.01	-2.45	8388.382	0.0	23880.561	0.0
645.4990	27.00	-.10	29294.520	3.5	44782.130	4.5
645.5103	28.01	-4.63	119913.330	4.5	135400.670	3.5
645.5115	26.01	-4.12	44915.070	3.5	60402.380	2.5
645.5128	25.01	-4.43	65567.070	2.0	81054.350	2.0
645.5161	28.01	-3.28	100078.780	1.5	115565.980	2.5
645.5261	21.00	-4.07	21085.840	3.5	36572.800	2.5
645.5274	24.01	-3.21	73436.270	2.5	88923.200	2.5
645.5313	17.00	-2.25	84485.309	1.5	99972.144	.5
645.5424	24.00	-2.54	37233.500	5.0	52720.070	4.0
645.5436	24.00	-4.31	36577.730	4.0	52064.270	4.0
645.5470	28.01	-1.97	120144.170	2.5	135630.630	2.5
645.5598	20.00	-1.55	20349.260	2.0	35835.413	2.0
645.5598	20.00	-1.88	20349.260	2.0	35835.413	2.0
645.5600	62.01	-1.83	11695.340	0.0	27185.767	0.0
645.5774	18.01	-2.60	195123.540	5.5	210609.270	4.5
645.5812	10.01	-4.98	291202.030	3.5	306687.670	3.5
645.5830	73.00	-2.74	9194.957	0.0	24684.832	0.0
645.5832	26.01	-4.63	44784.780	2.5	60270.370	3.5
645.5849	25.02	-1.42	215875.730	2.5	231361.280	2.5
645.5977	8.00	-.95	86631.466	3.0	102116.710	2.0
645.5982	28.01	-1.83	120144.170	2.5	135629.400	3.5
645.5990	57.00	-1.14	1048.548	0.0	16538.039	0.0
645.6037	22.00	-.22	28896.062	5.0	44381.160	4.0
645.6078	15.00	-4.17	65585.000	2.5	81070.000	1.5
645.6266	25.01	-4.38	65567.070	2.0	81051.620	3.0
645.6291	28.01	-1.65	118848.920	7.5	134333.410	6.5
645.6324	29.01	-3.27	110084.290	1.0	125568.700	1.0
645.6341	28.01	-1.92	120211.300	5.5	135695.670	4.5
645.6383	26.01	-2.25	31483.200	3.5	46967.470	2.5
645.6433	18.01	-2.71	195123.540	5.5	210607.690	4.5
645.6491	18.01	-.90	195123.540	5.5	210607.550	5.5
645.6676	8.00	-3.92	101147.526	2.0	116631.094	2.0
645.6787	28.01	-2.68	121190.340	4.5	136673.640	4.5
645.6843	26.00	-3.08	38678.015	2.0	54161.182	3.0
645.6858	14.00	-1.24	49399.670	1.0	64882.800	2.0
645.6871	28.01	-2.08	118379.110	2.5	133862.210	1.5
645.6875	20.01	-1.38	68056.910	3.5	83540.000	3.5
645.6875	20.01	.17	68056.910	3.5	83540.000	4.5
645.6875	20.01	.05	68056.910	2.5	83540.000	3.5
645.6921	21.00	-4.43	21032.780	2.5	36515.760	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
645.7079	29.01	-4.72	130945.000	1.0	146427.600	1.0
645.7093	9.00	-2.35	118427.823	1.5	133910.390	.5
645.7142	22.00	-7.39	6598.749	2.0	22081.198	2.0
645.7146	24.00	-2.96	31364.330	3.0	46846.770	3.0
645.7187	17.00	-1.60	84688.637	.5	100170.980	1.5
645.7217	28.01	-3.65	120211.300	5.5	135693.570	4.5
645.7217	28.01	-.66	120211.300	5.5	135693.570	5.5
645.7367	25.01	-1.92	52383.720	4.0	67865.630	4.0
645.7372	14.00	-2.25	48102.323	2.0	63584.220	1.0
645.7450	26.02	-3.07	182852.050	7.0	198333.760	6.0
645.7630	40.00	-1.70	11534.025	0.0	27019.582	0.0
645.7692	24.00	-.93	47189.870	4.0	62671.000	4.0
645.7701	56.01	-2.13	46154.890	0.0	61640.277	0.0
645.7746	18.01	-4.30	195128.270	4.5	210609.270	4.5
645.7883	7.00	-2.17	94881.790	3.5	110362.462	3.5
645.7960	63.00	-.08	15324.929	0.0	30809.695	0.0
645.8234	28.01	-.13	105838.060	3.5	121317.890	3.5
645.8335	24.00	-4.71	36552.130	3.0	52031.720	3.0
645.8405	18.01	-.98	195128.270	4.5	210607.690	4.5
645.8406	28.01	-2.63	120144.170	2.5	135623.590	1.5
645.8422	28.01	-2.26	121125.410	4.5	136604.790	3.5
645.8464	18.01	-2.69	195128.270	4.5	210607.550	5.5
645.8514	25.01	-2.95	66676.560	2.0	82155.720	1.0
645.8698	26.02	-3.26	167002.000	2.0	182480.720	2.0
645.8739	24.00	-3.91	35807.900	2.0	51286.520	2.0
645.8819	28.01	-1.70	120144.170	2.5	135622.600	3.5
645.8860	25.00	-2.61	42143.570	1.5	57621.900	1.5
645.9048	28.01	-.78	121800.340	1.5	137278.220	1.5
645.9061	28.01	-.77	121120.880	5.5	136598.730	5.5
645.9173	26.00	-3.75	33765.291	2.0	49242.872	3.0
645.9253	26.00	-3.48	33765.291	2.0	49242.680	2.0
645.9403	9.02	-4.23	414897.720	3.5	430374.750	2.5
645.9658	20.02	-2.98	347417.050	3.0	362893.470	2.0
645.9737	28.01	-1.84	118848.920	7.5	134325.150	7.5
645.9737	28.01	.42	118848.920	7.5	134325.150	8.5
645.9741	28.01	-4.99	122047.290	3.5	137523.510	3.5
645.9875	24.00	-1.19	37244.170	4.0	52720.070	4.0
645.9920	73.00	-2.49	9598.245	0.0	25078.313	0.0
645.9941	28.01	-1.81	120144.170	2.5	135619.910	1.5
645.9942	15.01	-.09	88193.000	4.0	103668.740	3.0
645.9970	8.00	-4.84	101155.422	1.0	116631.094	2.0
646.0104	28.01	-2.49	120218.220	6.5	135693.570	5.5
646.0108	28.01	-2.16	120211.300	5.5	135686.640	6.5
646.0183	28.01	.31	121120.880	5.5	136596.040	6.5
646.0183	28.01	-1.51	121120.880	5.5	136596.040	5.5
646.0259	24.00	-4.10	33040.100	2.0	48515.080	3.0
646.0284	28.01	-4.36	116275.810	3.5	131750.730	3.5
646.0455	25.01	-3.28	66676.560	2.0	82151.070	2.0
646.0529	7.00	-3.06	94770.850	.5	110245.183	.5
646.0614	18.01	-4.96	189040.870	1.5	204515.000	.5
646.0651	10.01	-2.09	302307.750	2.5	317781.790	1.5
646.0705	28.01	-1.53	120144.170	2.5	135618.080	2.5
646.0806	10.01	-3.19	302307.750	2.5	317781.420	2.5
646.0933	14.00	-1.83	49188.617	2.0	64661.980	3.0
646.0952	28.01	-2.24	121125.410	4.5	136598.730	5.5
646.1365	25.02	-4.41	177269.340	1.5	192741.670	.5
646.1465	24.00	-2.35	47189.870	4.0	62661.960	3.0
646.1745	28.01	-2.57	117972.470	3.5	133443.890	2.5
646.1950	6.01	-1.38	168978.340	3.5	184449.270	3.5
646.1950	6.01	.16	168978.340	3.5	184449.270	4.5
646.1950	6.01	.05	168978.340	2.5	184449.270	3.5
646.1975	24.00	-1.91	26787.500	3.0	42258.370	4.0
646.2046	29.01	-4.67	130945.000	2.0	146415.700	2.0
646.2075	28.01	-.24	121125.410	4.5	136596.040	5.5
646.2113	25.02	-4.96	124823.900	4.5	140294.440	3.5
646.2113	28.01	-.28	120222.890	1.5	135693.430	2.5
646.2167	27.01	-4.35	69696.970	3.0	85167.380	3.0
646.2280	25.02	-1.05	215917.520	4.5	231387.660	3.5
646.2497	14.02	-1.27	234387.640	1.0	249857.260	0.0
646.2567	20.00	.25	20349.260	2.0	35818.713	3.0
646.2567	20.00	-.01	20349.260	2.0	35818.713	3.0
646.2708	7.00	-1.87	94830.860	2.5	110299.974	2.5
646.2717	26.00	-6.90	7376.762	4.0	22845.856	5.0
646.2731	26.00	-3.09	19788.248	4.0	35257.309	4.0
646.2835	24.00	-3.71	31377.960	4.0	46846.770	3.0
646.2856	24.00	-2.28	26787.500	3.0	42256.260	3.0
646.2886	24.00	-2.56	47222.270	6.0	62690.960	5.0
646.2927	26.01	-7.26	26932.740	.5	42401.330	1.5
646.2952	27.00	-3.63	32733.070	3.5	48201.600	3.5
646.2998	28.01	.37	120218.220	6.5	135686.640	7.5
646.2998	28,01	-.61	120218.220	6.5	135686.640	6.5
646.3040	27.00	-.86	36092.440	2.5	51560.760	2.5
646.3120	71.01	-1.49	11695.340	0.0	27167.743	0.0
646.3124	28.01	-3.59	100619.260	4.5	116087.380	4.5
646.3203	28.01	-2.53	118848.920	7.5	134316.850	6.5
646.3224	28.01	-.47	118848.920	7.5	134316.800	7.5
646.3266	25.01	-3.62	66676.560	2.0	82144.340	3.0
646.3299	28.01	-4.87	119315.440	2.5	134783.140	2.5
646.3500	24.00	-3.16	35934.020	6.0	51401.240	5.0
646.3506	9.00	-3.04	102405.710	2.5	117872.916	1.5
646.3583	24.00	-2.95	26787.500	3.0	42254.520	2.0
646.3642	28.01	.31	120211.300	5.5	135678.180	6.5
646.3652	14.00	-2.18	48020.074	1.0	63486.930	1.0
646.3675	28.02	-4.98	98238.200	4.0	113705.000	4.0
646.3742	28.01	-4.66	121385.800	1.5	136852.440	1.5
646.3989	28.01	-3.85	106620.530	3.5	122086.580	3.5
646.3997	28.01	-3.24	115565.980	2.5	131032.010	2.5
646.4002	22.00	-.43	28788.372	4.0	44254.390	3.0
646.4311	23.00	-2.52	26604.770	3.5	42070.050	2.5
646.4586	25.01	-2.90	66686.450	3.0	82151.070	2.0
646.4653	22.01	-3.34	24961.340	1.5	40425.800	1.5
646.4667	26.00	-6.93	7728.058	3.0	23192.486	2.0
646.4672	20.00	-2.70	20371.000	3.0	35835.413	2.0
646.4672	20.00	-3.04	20371.000	3.0	35835.413	2.0
646.4767	22.00	-2.35	26494.322	2.0	41958.510	2.0
646.4984	23.00	-2.99	23935.150	2.5	39398.820	3.5
646.5000	92.00	-1.17	7259.177	0.0	22727.081	0.0
646.5228	28.00	-2.61	43654.974	3.0	59118.060	2.0
646.5389	17.01	-2.32	146333.800	2.0	161796.500	3.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
646.5444	28.01	-2.43	118874.110	3.5	134336.680	4.5
646.5615	24.00	-.79	47228.800	5.0	62690.960	5.0
646.5737	26.00	-1.81	33765.291	2.0	49227.160	3.0
646.5790	38.00	-.65	21535.558	0.0	37001.572	0.0
646.6088	29.01	-3.45	120875.850	2.0	136336.880	1.0
646.6326	23.00	-3.29	19026.340	2.5	34486.800	2.5
646.6439	28.01	-2.40	118442.810	1.5	133903.000	1.5
646.6481	23.00	-5.90	10892.500	3.5	26352.590	2.5
646.6506	23.01	-6.08	19132.690	2.0	34592.720	2.0
646.6527	24.00	-2.14	26796.280	2.0	42256.260	3.0
646.6530	18.00	-1.96	107054.319	0.0	122514.290	1.0
646.6535	28.01	-1.55	120218.220	6.5	135678.180	6.5
646.6560	17.00	-2.75	85244.330	.5	100704.230	1.5
646.6577	26.01	-4.28	64425.460	2.5	79885.320	2.5
646.6648	28.01	-2.98	113407.310	2.5	128867.000	3.5
646.6673	22.00	-2.12	31190.631	2.0	46650.260	3.0
646.6814	26.00	-4.44	24772.019	1.0	40231.312	2.0
646.6824	24.01	-3.37	54444.190	3.5	69903.460	3.5
646.6900	58.01	-1.00	14195.724	0.0	29659.084	0.0
646.6958	23.00	-3.34	8476.200	1.5	23935.150	2.5
646.6987	24.00	-4.50	7927.470	2.0	23386.350	3.0
646.6994	14.00	-1.52	49188.617	2.0	64647.480	3.0
646.7255	24.00	-2.23	26796.280	2.0	42254.520	2.0
646.7287	14.00	-1.87	49188.617	2.0	64646.780	2.0
646.7401	25.01	-3.03	66686.450	3.0	82144.340	3.0
646.7434	28.01	-2.15	121146.980	2.5	136604.790	3.5
646.7468	28.01	-.19	118874.110	3.5	134331.840	4.5
646.7520	22.00	-3.87	22081.198	2.0	37538.804	2.0
646.7619	28.01	-.66	118877.090	1.5	134334.460	1.5
646.7674	14.00	-1.90	48264.292	3.0	63721.530	2.0
646.7715	24.00	-2.55	26796.280	2.0	42253.420	1.0
646.7774	15.00	-1.27	64239.500	.5	79696.500	1.5
646.7811	25.00	-3.32	47774.520	3.5	63231.430	4.5
646.7815	25.02	-2.52	124823.900	4.5	140280.800	4.5
646.7815	28.01	-3.50	114874.880	2.5	130331.780	1.5
646.7899	28.01	-.59	105861.190	2.5	121317.890	3.5
646.7937	28.01	.46	105838.060	3.5	121294.670	4.5
646.8042	18.01	-1.87	196305.040	3.5	211761.400	3.5
646.8050	18.01	-.32	196305.040	3.5	211761.380	4.5
646.8079	28.01	-4.91	99418.610	3.5	114874.880	2.5
646.8424	7.00	-3.74	94830.860	2.5	110286.305	2.5
646.8440	57.00	-1.41	9114.300	0.0	24573.978	0.0
646.8834	26.00	-4.59	38678.015	2.0	54132.480	1.0
646.9106	26.00	-4.38	19390.165	6.0	34843.980	6.0
646.9191	26.00	-2.69	38995.717	1.0	54449.330	1.0
646.9238	28.01	-1.64	118874.110	3.5	134327.610	2.5
646.9301	23.00	-4.96	34529.810	4.5	49983.160	5.5
646.9615	17.01	-3.86	137804.400	1.0	153257.000	2.0
646.9619	24.00	-3.23	26801.930	1.0	42254.520	2.0
646.9682	23.00	-3.16	10892.500	3.5	26344.940	4.5
646.9982	7.00	-2.48	94793.460	1.5	110245.183	.5
647.0009	23.00	-3.87	19078.150	3.5	34529.810	4.5
647.0013	24.00	-.51	47222.270	6.0	62673.920	6.0
647.0080	24.00	-3.55	26801.930	1.0	42253.420	1.0
647.0126	27.00	-2.15	28470.510	1.5	43921.890	2.5
647.0201	28.01	-3.72	114052.040	3.5	129503.240	4.5
647.0210	40.00	-.81	12663.231	0.0	28118.680	0.0
647.0251	29.01	-1.75	118142.970	3.0	133594.050	3.0
647.0290	64.00	-.16	17986.627	0.0	33441.885	0.0
647.0460	62.01	-1.93	10162.848	0.0	25617.700	0.0
647.0486	28.01	-.50	118877.090	1.5	134327.610	2.5
647.0582	10.01	-4.92	292651.320	1.5	308101.610	1.5
647.0659	14.00	-3.75	48264.292	3.0	63714.400	2.0
647.0700	63.00	-1.25	13953.751	0.0	29408.030	0.0
647.0725	10.01	-3.66	292651.320	1.5	308101.270	2.5
647.0800	28.01	-.71	118874.110	3.5	134323.880	2.5
647.0808	25.01	-4.31	66686.450	3.0	82136.200	4.0
647.0850	22.00	-3.00	26657.409	4.0	42107.060	4.0
647.0892	25.02	-1.71	215911.730	1.5	231361.280	2.5
647.1015	7.00	-1.89	94770.850	.5	110220.107	1.5
647.1056	24.00	-2.83	35501.260	3.0	50950.420	3.0
647.1123	27.02	-4.20	156291.400	2.5	171740.400	1.5
647.1123	27.02	-4.20	156291.400	2.5	171740.400	1.5
647.1169	24.00	-2.90	33113.270	4.0	48562.160	4.0
647.1200	42.00	-1.21	23390.681	0.0	38843.765	0.0
647.1315	28.01	-1.37	119889.470	5.5	135338.010	5.5
647.1361	28.01	-2.25	106007.890	2.5	121456.320	1.5
647.1399	14.02	-.17	242473.660	3.0	257922.000	4.0
647.1441	23.02	-.83	146139.800	2.5	161588.040	3.5
647.1483	14.02	-1.71	242473.860	4.0	257922.000	4.0
647.1483	14.02	-.07	242473.860	4.0	257922.000	5.0
647.1483	14.02	-3.71	242473.860	4.0	257922.000	5.0
647.1550	21.01	-3.09	12154.340	2.0	27602.320	3.0
647.1655	14.02	-4.63	242474.270	4.0	257922.000	5.0
647.1655	14.02	-.07	242474.270	4.0	257922.000	5.0
647.1655	14.02	-1.81	242474.270	4.0	257922.000	4.0
647.1662	20.00	-.61	20371.000	3.0	35818.713	3.0
647.1662	20.00	-.88	20371.000	3.0	35818.713	3.0
647.1759	25.01	-3.51	53597.130	2.0	69044.610	2.0
647.1881	14.02	-1.71	242474.810	5.0	257922.000	5.0
647.1881	14.02	-1.81	242474.810	5.0	257922.000	5.0
647.1881	14.02	.01	242474.810	5.0	257922.000	6.0
647.1881	14.02	-3.45	242474.810	5.0	257922.000	4.0
647.1960	25.02	-.61	176945.200	4.5	192392.200	3.5
647.2040	28.01	-1.00	105668.780	2.5	121115.590	1.5
647.2048	28.01	-1.61	118877.090	1.5	134323.880	2.5
647.2048	28.01	-.94	118877.090	1.5	134323.880	1.5
647.2127	26.00	-3.50	35257.309	4.0	50703.912	5.0
647.2145	28.01	-2.91	113407.310	2.5	128853.870	2.5
647.2287	15.00	-2.25	65787.380	3.5	81233.600	3.5
647.2299	9.02	-4.97	440202.480	2.5	455648.670	1.5
647.2321	22.00	-3.17	30039.211	5.0	45485.350	5.0
647.2340	62.01	-1.45	10969.423	0.0	26419.786	0.0
647.2413	28.01	-3.95	97273.830	2.5	112719.750	3.5
647.2421	30.02	-2.44	220006.600	1.0	235452.500	2.0
647.2425	18.01	-.43	196315.510	2.5	211761.400	3.5
647.2589	28.01	-4.62	120250.170	3.5	135695.670	4.5
647.2602	25.02	-.23	216307.290	4.5	231752.760	5.5
647.2748	24.00	-1.07	47228.800	5.0	62673.920	6.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
647.2824	28.01	-2.84	112422.190	5.5	127867.130	4.5
647.3092	13.01	-2.83	134181.200	3.0	149625.500	2.0
647.3092	13.01	-4.25	134181.200	3.0	149625.500	3.0
647.3092	13.01	-3.09	134181.200	4.0	149625.500	3.0
647.3092	13.01	-2.21	134181.200	4.0	149625.500	3.0
647.3092	13.01	-4.12	134181.200	4.0	149625.500	4.0
647.3092	13.01	-4.26	134181.200	4.0	149625.500	4.0
647.3092	13.01	-2.60	134181.200	5.0	149625.500	4.0
647.3102	22.00	-1.23	31205.985	3.0	46650.260	3.0
647.3134	17.01	-4.01	128729.800	3.0	144174.000	3.0
647.3184	23.00	-3.23	22313.990	5.5	37758.070	4.5
647.3343	17.01	-2.30	132162.000	3.0	147605.700	3.0
647.3348	28.01	-1.30	118892.990	5.5	134336.680	4.5
647.3348	28.01	-.34	118892.990	5.5	134336.680	5.5
647.3379	22.00	-3.25	25643.695	3.0	41087.310	3.0
647.3452	28.01	-2.74	118893.240	6.5	134336.680	5.5
647.3469	28.01	-.00	120250.170	3.5	135693.570	4.5
647.3528	28.01	-2.19	120250.170	3.5	135693.430	2.5
647.3528	28.01	-4.00	120250.170	3.5	135693.430	3.5
647.3633	28.01	-.28	121456.320	1.5	136899.330	1.5
647.3754	14.02	-.32	242410.880	2.0	257853.600	3.0
647.3763	26.02	-4.96	167002.000	2.0	182444.700	3.0
647.3918	14.02	-1.37	242411.270	3.0	257853.600	3.0
647.3918	14.02	-.44	242411.270	3.0	257853.600	4.0
647.3918	14.02	-.58	242411.270	3.0	257853.600	4.0
647.3972	24.00	-2.51	47228.800	5.0	62671.000	4.0
647.3990	42.00	-.92	25729.749	0.0	41176.174	0.0
647.4039	22.00	-2.80	25926.820	4.0	41368.860	4.0
647.4081	28.01	-4.24	122084.790	1.5	137526.730	2.5
647.4098	14.02	-3.17	242411.700	4.0	257853.600	3.0
647.4098	14.02	-1.61	242411.700	4.0	257853.600	4.0
647.4098	14.02	-1.75	242411.700	4.0	257853.600	4.0
647.4098	14.02	-.08	242411.700	4.0	257853.600	5.0
647.4200	29.00	-1.17	56621.579	0.0	72067.503	0.0
647.4295	26.00	-3.70	42532.729	3.0	57974.160	2.0
647.4308	28.01	-.38	121325.090	2.5	136766.490	2.5
647.4371	6.00	-3.86	70743.950	1.0	86185.200	2.0
647.4509	28.01	-4.64	99559.330	2.5	115000.250	3.5
647.4524	22.00	-4.74	27418.015	2.0	42858.900	3.0
647.4538	27.00	-1.55	28470.510	1.5	43911.360	1.5
647.4606	26.00	-4.91	29320.050	1.0	44760.739	1.0
647.4660	24.00	-2.94	49310.860	3.0	64751.420	4.0
647.4664	27.00	-2.20	41104.960	2.5	56545.510	2.5
647.4719	28.01	-1.92	118892.990	5.5	134333.410	5.5
647.4719	28.01	-3.28	118892.990	5.5	134333.410	6.5
647.4823	28.01	-.27	118893.240	6.5	134333.410	6.5
647.4823	28.01	-1.20	118893.240	6.5	134333.410	5.5
647.4994	28.00	-3.58	36600.805	2.0	52040.568	2.0
647.4995	28.01	-3.91	115592.250	1.5	131032.010	2.5
647.5180	8.01	-4.07	232745.980	1.5	248185.300	2.5
647.5251	25.00	-2.85	47466.660	1.5	62905.810	2.5
647.5290	59.01	-2.58	7339.834	0.0	22783.158	0.0
647.5314	23.00	-3.90	26738.310	4.5	42177.310	4.5
647.5319	18.01	-2.24	179592.130	2.5	195031.120	2.5
647.5377	28.01	-2.53	118892.990	5.5	134331.840	4.5
647.5440	17.01	-2.25	146469.000	3.0	161907.700	2.0
647.5494	25.01	-2.25	52373.180	3.0	67811.750	3.0
647.5632	26.00	-2.67	20641.110	4.0	36079.353	3.0
647.5821	8.01	-3.25	232747.510	2.5	248185.300	2.5
647.5901	24.01	-2.53	73485.600	3.5	88923.200	2.5
647.5959	17.00	-2.19	85735.091	1.5	101172.553	1.5
647.6220	24.00	-4.60	44050.870	4.0	59487.710	4.0
647.6354	28.01	-1.30	118897.940	2.5	134334.460	1.5
647.6399	9.00	-1.66	117308.558	1.5	132744.970	1.5
647.6501	9.02	-1.91	442278.930	2.5	457715.100	2.5
647.6583	26.00	-4.07	33095.922	4.0	48531.896	3.0
647.6652	28.01	-.52	118631.950	.5	134067.760	1.5
647.6841	10.01	-1.75	302750.810	3.5	318186.170	4.5
647.6971	24.00	-3.95	33935.650	2.0	49370.700	3.0
647.7670	71.00	-3.47	1935.780	0.0	17373.430	0.0
647.7703	22.00	-4.64	32013.534	6.0	47446.840	6.0
647.7752	23.02	-2.71	145143.430	4.5	160576.620	3.5
647.7848	28.01	-2.92	121115.590	1.5	136548.550	2.5
647.7853	27.00	-.45	30443.630	1.5	45876.580	2.5
647.7941	28.01	-2.13	121240.900	3.5	136673.640	4.5
647.8096	25.01	-3.55	52379.380	2.0	67811.750	3.0
647.8126	17.01	-.60	132173.400	4.0	147605.700	3.0
647.8151	25.00	-3.38	42053.730	2.5	57485.970	2.5
647.8289	28.01	-2.31	118893.240	6.5	134325.150	7.5
647.8464	9.00	-1.76	117164.006	2.5	132595.500	2.5
647.8487	8.01	-.43	232753.860	3.5	248185.300	2.5
647.8551	28.00	-2.98	43089.636	5.0	58520.923	5.0
647.8936	14.00	-3.22	45276.188	1.0	60706.558	1.0
647.8990	23.00	-4.35	19189.280	1.5	34619.520	2.5
647.9133	13.01	-1.06	132819.700	3.0	148249.600	4.0
647.9225	23.00	-4.82	35225.040	2.5	50654.720	2.5
647.9230	28.01	-.41	118897.940	2.5	134327.610	2.5
647.9255	23.02	-.89	146139.800	2.5	161569.410	1.5
647.9259	28.01	-.24	118897.940	2.5	134327.540	3.5
647.9301	10.01	-2.69	302750.810	3.5	318180.310	2.5
647.9343	13.01	-2.50	132819.700	3.0	148249.100	3.0
647.9427	25.02	-.84	179683.610	4.5	195112.810	3.5
647.9427	13.01	-1.59	132819.900	2.0	148249.100	3.0
647.9511	13.01	-3.67	132819.700	3.0	148248.700	2.0
647.9515	28.01	-.88	119833.000	5.5	135261.990	4.5
647.9561	24.01	-2.86	54678.950	4.5	70107.830	4.5
647.9569	14.02	-.97	234428.400	1.0	249857.260	0.0
647.9594	13.01	-2.13	132819.900	2.0	148248.700	2.0
647.9594	13.01	-1.40	132819.900	1.0	148248.700	2.0
647.9879	14.00	-3.03	49188.617	2.0	64616.740	2.0
647.9918	25.01	-3.09	52383.720	4.0	67811.750	3.0
647.9965	28.01	-3.35	106133.140	1.5	121561.060	.5
648.0090	18.01	-2.70	159393.310	1.5	174820.930	.5
648.0110	64.01	-1.56	13792.436	0.0	29224.273	0.0
648.0305	24.00	-2.61	37233.500	5.0	52660.610	6.0
648.0410	28.01	.02	120268.810	3.5	135695.670	4.5
648.0452	28.01	-1.32	106620.530	3.5	122047.290	3.5
648.0499	7.00	-1.42	94793.460	1.5	110220.107	1.5
648.0548	23.01	-5.52	19166.190	1.0	34592.720	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
648.0590	23.00	-.71	26738.310	4.5	42164.740	3.5
648.0632	24.01	-4.61	53566.220	3.5	68992.550	4.5
648.0674	28.01	-.57	121178.560	3.5	136604.790	3.5
648.0796	28.01	-1.24	118897.940	2.5	134323.880	2.5
648.0796	28.01	-1.32	118897.940	2.5	134323.880	1.5
648.1023	28.01	-4.03	97799.660	1.5	113225.060	.5
648.1095	28.01	-1.95	120270.440	5.5	135695.670	4.5
648.1132	18.00	-2.40	107054.319	0.0	122479.459	1.0
648.1216	25.02	-4.48	124754.800	3.5	140179.740	2.5
648.1292	28.01	-1.83	120268.810	3.5	135693.570	4.5
648.1326	28.01	-1.93	119913.330	4.5	135338.010	5.5
648.1334	29.01	-.06	123556.640	2.0	138981.300	2.0
648.1351	28.01	-1.68	120268.810	3.5	135693.430	2.5
648.1351	28.01	-.42	120268.810	3.5	135693.430	3.5
648.1506	28.01	-2.02	121180.540	4.5	136604.790	3.5
648.1609	22.00	-2.76	26564.385	3.0	41988.390	3.0
648.1670	28.01	.24	118892.990	5.5	134316.850	6.5
648.1694	7.00	-1.37	94770.850	.5	110194.654	1.5
648.1775	28.01	-1.72	118893.240	6.5	134316.850	6.5
648.1796	28.01	.30	118893.240	6.5	134316.800	7.5
648.1877	26.00	-4.32	18378.187	2.0	33801.555	2.0
648.1889	25.00	-2.20	42198.560	.5	57621.900	1.5
648.1973	28.01	-.46	120272.530	4.5	135695.670	4.5
648.1977	28.01	-1.54	120270.440	5.5	135693.570	4.5
648.1977	28.01	-1.56	120270.440	5.5	135693.570	5.5
648.2049	7.01	-.24	149187.800	1.0	164610.760	1.0
648.2250	26.01	-2.15	50157.610	4.5	65580.090	5.5
648.2309	28.01	-2.60	118914.340	4.5	134336.680	5.5
648.2309	28.01	-2.41	118914.340	4.5	134336.680	4.5
648.2355	28.01	-3.21	114052.040	3.5	129474.270	3.5
648.2439	28.01	-.90	122140.710	4.5	137562.740	3.5
648.2679	28.01	-.12	120271.970	2.5	135693.430	3.5
648.2679	28.01	-.61	120271.970	2.5	135693.430	2.5
648.2686	7.00	-.59	94881.790	3.5	110303.233	4.5
648.2737	26.00	-4.05	33507.102	3.0	48928.423	2.0
648.2788	27.00	-3.07	18775.010	.5	34196.210	1.5
648.2796	28.00	-3.77	15609.861	2.0	31031.042	3.0
648.2801	15.00	-3.17	66343.330	.5	81764.500	1.5
648.2856	28.01	-2.77	120272.530	4.5	135693.570	4.5
648.2856	28.01	.17	120272.530	4.5	135693.570	5.5
648.2910	56.00	.29	11395.000	0.0	26820.172	0.0
648.2914	28.01	-1.52	120272.530	4.5	135693.430	3.5
648.2935	27.00	-5.80	13795.520	2.5	29216.370	2.5
648.2948	27.00	-4.62	17233.680	3.5	32654.500	2.5
648.2961	9.02	-1.15	442294.310	1.5	457715.100	2.5
648.3020	18.01	-1.28	196305.040	3.5	211725.690	3.5
648.3020	63.00	-.91	15324.929	0.0	30749.839	0.0
648.3028	38.01	-2.63	53372.970	0.0	68797.861	0.0
648.3049	25.00	-2.55	34938.700	4.5	50359.280	3.5
648.3058	18.01	-2.72	196305.040	3.5	211725.600	2.5
648.3079	18.01	-.91	145668.800	1.5	161089.310	.5
648.3211	22.00	-7.16	6661.003	3.0	22081.198	2.0
648.3268	22.00	-3.60	22404.690	3.0	37824.748	4.0
648.3339	27.00	-3.11	32781.710	2.5	48201.600	3.5
648.3435	15.00	-2.12	66813.040	1.5	82232.700	2.5
648.3545	28.01	-2.43	118442.810	1.5	133862.210	1.5
648.3562	28.01	-2.06	121111.900	.5	136531.260	1.5
648.3684	28.01	.01	118914.340	4.5	134333.410	5.5
648.3740	7.00	-1.04	94793.460	1.5	110212.396	2.5
648.3823	26.02	-3.66	136117.940	2.0	151536.680	1.0
648.3881	25.00	-1.31	47154.510	1.5	62573.110	1.5
648.3894	24.00	-4.08	33040.100	2.0	48458.670	2.0
648.3940	18.01	-3.54	187589.230	2.5	203007.690	1.5
648.3950	26.00	-5.28	11976.239	4.0	27394.676	3.0
648.4054	28.01	.20	121180.540	4.5	136598.730	5.5
648.4083	28.01	-2.99	52738.450	2.5	68156.570	1.5
648.4125	28.01	-4.62	99418.610	3.5	114836.630	3.5
648.4239	28.01	-3.84	122144.990	2.5	137564.740	3.5
648.4344	28.01	-.16	118914.340	4.5	134331.840	4.5
648.4350	40.00	-2.75	5000.766	0.0	20422.512	0.0
648.4357	29.01	-.59	120919.410	1.0	136336.880	1.0
648.4458	28.01	-1.92	103025.580	2.5	118442.810	1.5
648.4520	62.01	-1.64	10082.190	0.0	25503.532	0.0
648.4571	26.02	-4.88	136117.940	2.0	151534.900	2.0
648.4697	25.00	-1.96	44978.980	1.5	60395.640	1.5
648.4795	7.00	-.76	94830.860	2.5	110247.288	3.5
648.4891	28.01	.25	120270.440	5.5	135686.640	6.5
648.5034	28.01	-2.46	106283.160	2.5	121699.020	1.5
648.5114	28.01	-4.56	121115.590	1.5	136531.260	1.5
648.5180	29.00	-1.34	56621.579	0.0	72041.351	0.0
648.5185	28.01	-3.31	121180.540	4.5	136596.040	5.5
648.5337	20.02	.20	326186.320	3.0	341601.460	2.0
648.5370	73.00	-.97	13227.833	0.0	28647.154	0.0
648.5429	28.01	-3.25	113407.310	2.5	128822.230	1.5
648.5429	28.01	-1.87	118442.810	1.5	133857.730	.5
648.5550	57.00	-1.29	7985.094	0.0	23403.987	0.0
648.5581	28.01	-1.42	120281.110	4.5	135695.670	4.5
648.5690	60.00	-1.48	0.000	0.0	15418.560	0.0
648.5754	9.02	-.98	426733.040	2.5	442147.190	2.5
648.6035	28.01	-.06	118923.200	3.5	134336.680	4.5
648.6044	24.00	-4.51	31009.000	3.0	46422.460	4.0
648.6044	26.02	-2.82	189679.070	3.0	205092.530	4.0
648.6105	22.00	-4.58	18287.560	4.0	33700.874	4.0
648.6267	14.00	-4.09	45293.629	2.0	60706.558	1.0
648.6313	16.01	-2.03	140708.510	2.5	156121.330	2.5
648.6460	28.01	-3.20	97273.830	2.5	112686.300	2.5
648.6460	28.01	-2.33	121192.320	3.5	136604.790	3.5
648.6465	28.01	-.37	120281.110	4.5	135693.570	4.5
648.6465	28.01	-1.94	120281.110	4.5	135693.570	5.5
648.6523	28.01	-2.44	120281.110	4.5	135693.430	3.5
648.6641	25.02	-4.40	115711.600	4.5	131123.640	5.5
648.6787	22.00	-4.69	26772.965	5.0	42184.660	4.0
648.6831	28.01	-2.64	121800.340	1.5	137211.930	.5
648.7120	14.00	-4.38	45293.629	2.0	60704.530	3.0
648.7184	28.01	-3.82	116275.810	3.5	131686.560	4.5
648.7226	28.01	-.06	121194.140	2.5	136604.790	3.5
648.7298	10.01	-3.64	302750.810	3.5	318161.290	2.5
648.7399	26.01	-2.53	54904.500	3.5	70314.740	4.5
648.7424	10.01	-3.22	302750.810	3.5	318160.990	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
648.7424	18.01	-2.71	196315.510	2.5	211725.690	3.5
648.7462	18.01	-1.41	196315.510	2.5	211725.600	2.5
648.7620	62.01	-1.83	9356.272	0.0	24770.245	0.0
648.7643	28.01	.10	118927.020	4.5	134336.680	5.5
648.7643	28.01	-.28	118927.020	4.5	134336.680	4.5
648.7916	26.00	-4.75	39969.830	3.0	55378.842	2.0
648.8001	28.01	-4.37	121180.540	4.5	136589.350	3.5
648.8068	23.00	-1.98	19078.150	3.5	34486.800	2.5
648.8073	28.01	-1.70	118923.200	3.5	134331.840	4.5
648.8350	9.02	-2.06	442147.190	2.5	457555.170	1.5
648.8452	28.01	-3.17	120270.440	5.5	135678.180	6.5
648.8490	28.01	-2.41	121325.090	2.5	136732.740	1.5
648.8801	26.02	-3.75	167002.000	2.0	182408.910	3.0
648.8961	8.01	-3.81	232602.570	.5	248009.100	1.5
648.8974	28.01	.19	104503.220	2.5	119909.720	1.5
648.9003	26.00	-4.93	34636.820	2.0	50043.250	1.0
648.9020	28.01	-3.14	118927.020	4.5	134333.410	5.5
648.9041	10.01	-1.69	302750.810	3.5	318157.150	3.5
648.9100	70.00	-.83	17180.052	0.0	32590.510	0.0
648.9479	28.01	-2.10	121111.900	.5	136517.200	.5
648.9501	10.01	-1.11	302750.810	3.5	318156.060	4.5
648.9640	40.00	-.85	12421.258	0.0	27830.433	0.0
648.9682	28.01	-3.93	118927.020	4.5	134331.840	4.5
648.9810	7.00	-4.60	94881.790	3.5	110286.305	2.5
648.9854	28.01	-1.15	118923.200	3.5	134327.610	2.5
648.9867	15.00	-2.69	66360.120	1.5	81764.500	1.5
648.9876	18.01	-3.94	179592.130	2.5	194996.490	1.5
648.9884	28.01	-.29	118923.200	3.5	134327.540	3.5
649.0006	27.00	-2.05	33674.380	2.5	49078.430	1.5
649.0044	26.00	-4.08	29356.780	2.0	44760.739	1.0
649.0183	24.00	-5.06	8095.210	3.0	23498.840	4.0
649.0343	27.00	-3.37	16467.900	4.5	31871.150	3.5
649.0478	25.02	-4.71	177477.230	2.5	192880.160	3.5
649.0516	28.01	.19	105838.060	3.5	121240.900	3.5
649.0602	17.00	-1.66	84648.100	2.5	100050.736	1.5
649.0617	25.00	-1.63	34938.700	4.5	50341.300	4.5
649.0681	10.01	-1.92	302425.870	1.5	317828.320	.5
649.0693	23.00	-2.01	19026.340	2.5	34428.760	1.5
649.0740	90.00	-1.79	8711.012	0.0	24117.576	0.0
649.0820	62.01	-1.42	12663.231	0.0	28069.605	0.0
649.0950	24.00	-3.91	33113.270	4.0	48515.080	3.0
649.0984	23.02	-3.07	146983.380	2.5	162385.110	3.5
649.1034	28.01	-4.22	121115.590	1.5	136517.200	.5
649.1047	23.00	-4.98	17054.870	2.5	32456.450	1.5
649.1177	23.00	-7.29	13801.530	1.5	29202.800	1.5
649.1209	7.00	-2.52	94793.460	1.5	110194.654	1.5
649.1215	24.00	-4.24	49310.860	3.0	64712.040	3.0
649.1262	26.01	-4.71	45044.210	1.5	60445.280	2.5
649.1426	28.01	-1.62	118923.200	3.5	134323.880	2.5
649.1494	28.01	-4.08	58493.210	2.5	73893.730	1.5
649.1494	28.01	-1.13	118927.020	4.5	134327.540	3.5
649.1607	22.01	-1.91	16625.250	1.5	32025.500	2.5
649.1628	17.01	-.44	144174.000	3.0	159574.200	2.0
649.1637	25.01	-4.55	53017.160	1.0	68417.340	2.0
649.1687	25.00	-1.28	30354.210	3.5	45754.270	3.5
649.1797	7.01	-1.67	187461.560	2.0	202861.360	3.0
649.1852	26.02	-4.83	186882.980	3.0	202282.650	2.0
649.1915	28.01	-4.82	120044.950	4.5	135444.470	3.5
649.2248	26.01	-4.92	50157.610	4.5	65556.340	4.5
649.2375	28.01	.38	104646.520	3.5	120044.950	4.5
649.2472	15.00	-3.01	66834.500	1.5	82232.700	2.5
649.2476	16.01	-3.88	140750.000	1.5	156148.190	.5
649.2585	24.00	-4.21	33060.740	3.0	48458.670	2.0
649.2914	28.01	-2.91	118939.530	5.5	134336.680	4.5
649.2914	28.01	-4.14	118939.530	5.5	134336.680	5.5
649.2965	28.01	-4.34	121192.320	3.5	136589.350	3.5
649.3054	22.00	-3.47	25797.600	3.0	41194.420	3.0
649.3100	40.00	-1.52	12663.231	0.0	28064.195	0.0
649.3130	42.00	-.70	30004.597	0.0	45405.490	0.0
649.3400	13.01	-2.50	123415.900	2.0	138811.900	2.0
649.3400	13.01	-1.76	123415.900	2.0	138811.900	1.0
649.3400	13.01	-4.04	123415.900	2.0	138811.900	3.0
649.3593	28.01	-2.81	100389.520	2.5	115785.060	1.5
649.3614	22.01	-3.06	53554.900	2.5	68950.390	3.5
649.3690	22.00	-3.75	26657.409	4.0	42052.720	3.0
649.3782	20.00	.02	20335.360	1.0	35730.454	2.0
649.3782	20.00	-.25	20335.360	1.0	35730.454	2.0
649.3956	29.01	.14	121524.670	3.0	136919.350	3.0
649.4190	22.00	-3.38	26564.385	3.0	41958.510	2.0
649.4286	13.01	-1.59	123418.000	3.0	138811.900	2.0
649.4286	13.01	-2.50	123418.000	3.0	138811.900	3.0
649.4294	28.01	-.18	118939.530	5.5	134333.410	5.5
649.4294	28.01	.17	118939.530	5.5	134333.410	6.5
649.4441	25.00	-.46	46901.130	2.5	62294.660	3.5
649.4501	26.00	-1.64	38175.332	3.0	53568.720	2.0
649.4526	25.01	-3.25	52373.180	3.0	67766.510	2.0
649.4846	22.00	-4.06	18287.560	4.0	33680.130	3.0
649.4956	28.01	-.96	118939.530	5.5	134331.840	4.5
649.4985	26.00	-1.66	19390.165	6.0	34782.406	5.0
649.5129	23.00	-7.49	13810.900	.5	29202.800	1.5
649.5466	13.01	-1.43	123420.800	4.0	138811.900	3.0
649.5699	26.02	-4.23	167002.000	2.0	182392.550	2.0
649.5744	26.00	-1.05	38995.717	1.0	54386.160	1.0
649.5884	26.02	-4.04	183431.280	5.0	198821.390	6.0
649.6041	28.01	-.45	105838.060	3.5	121227.600	2.5
649.6095	10.01	-4.40	313457.540	2.5	328847.150	3.5
649.6108	10.01	-2.60	313457.570	3.5	328847.150	3.5
649.6143	28.00	-3.99	40484.282	2.0	55873.780	2.0
649.6150	10.01	-.91	313457.570	3.5	328847.050	4.5
649.6201	27.00	-1.78	36875.130	1.5	52264.490	1.5
649.6201	28.01	-4.18	114942.420	1.5	130331.780	1.5
649.6249	7.00	-2.35	94830.860	2.5	110220.107	1.5
649.6340	8.01	-1.43	232796.270	2.5	248185.300	2.5
649.6399	24.00	-3.62	35501.260	3.0	50890.150	2.0
649.6435	26.00	-1.05	38678.015	2.0	54066.821	2.0
649.6440	44.00	-.54	27342.899	0.0	42735.945	0.0
649.6454	22.01	-3.04	25193.040	2.5	40581.800	2.5
649.6581	7.01	-.64	211103.630	3.0	226492.090	4.0
649.6897	56.01	-.46	4873.850	0.0	20265.813	0.0
649.7029	13.01	-2.32	134181.200	4.0	149568.600	3.0
649.7029	13.01	-3.05	134181.200	4.0	149568.600	3.0
649.7029	13.01	-4.13	134181.200	3.0	149568.600	3.0
649.7045	22.00	-3.52	25699.950	2.0	41087.310	3.0
649.7062	28.01	-2.25	122175.420	2.5	137562.740	3.5
649.7143	25.01	-2.55	52379.380	2.0	67766.510	2.0
649.7155	30.02	-4.94	284689.000	1.0	300076.100	2.0
649.7273	28.01	-4.47	116838.330	1.5	132225.150	1.5
649.7407	56.01	-4.74	45949.496	0.0	61340.251	0.0
649.7684	22.00	-2.14	11639.804	3.0	27025.652	4.0
649.7840	41.00	-2.79	4920.109	0.0	20309.839	0.0
649.7873	28.01	-.69	120903.200	3.5	136288.600	2.5
649.7945	10.01	-1.48	302816.980	1.5	318202.210	1.5
649.7966	10.01	-.55	313461.970	4.5	328847.150	3.5
649.7975	7.01	-1.74	211103.630	3.0	226488.790	3.0
649.8009	10.01	.34	313461.970	4.5	328847.050	4.5
649.8017	10.01	1.17	313461.990	5.5	328847.050	4.5
649.8161	28.00	-3.87	43654.974	3.0	59039.693	4.0
649.8177	23.00	-3.70	19145.130	5.5	34529.810	4.5
649.8190	57.01	-.89	20245.038	0.0	35633.939	0.0
649.8194	7.01	-.62	211336.160	1.0	226720.800	2.0
649.8202	10.01	-2.02	302816.980	1.5	318201.600	.5
649.8208	14.00	-3.47	48102.323	2.0	63486.930	1.0
649.8629	25.02	-.24	216691.830	5.5	232075.440	6.5
649.8670	62.01	-1.83	8469.040	0.0	23856.804	0.0
649.8760	56.00	.58	9596.000	0.0	24983.551	0.0
649.8832	28.01	-4.97	115739.150	4.5	131122.280	5.5
649.8943	26.00	-4.66	7728.058	3.0	23110.925	3.0
649.8978	28.00	-2.70	42585.296	4.0	57968.080	3.0
649.8988	15.00	-3.78	66813.040	1.5	82195.800	1.5
649.9010	26.00	-4.65	43137.472	3.0	58520.180	4.0
649.9021	14.00	-4.17	45321.848	3.0	60704.530	3.0
649.9083	18.00	-3.08	107131.755	1.0	122514.290	1.0
649.9107	28.01	-4.06	56075.260	2.5	71457.740	3.5
649.9229	14.00	-3.23	47284.061	1.0	62666.250	1.0
649.9271	25.00	-1.29	45013.550	2.5	60395.640	1.5
649.9505	7.00	-1.64	94830.860	2.5	110212.396	2.5
649.9650	20.00	-.68	20349.260	2.0	35730.454	2.0
649.9650	20.00	-.94	20349.260	2.0	35730.454	2.0
649.9728	7.01	-3.39	211103.630	3.0	226484.640	2.0
649.9850	24.00	-2.91	49370.700	3.0	64751.420	4.0
649.9863	28.01	.38	121385.800	1.5	136766.490	2.5
649.9909	22.00	-4.19	12118.394	4.0	27498.975	3.0
650.0154	26.00	-3.96	38995.717	1.0	54375.719	2.0
650.0222	18.01	-2.56	145668.800	1.5	161048.640	1.5
650.0277	28.01	-.29	105861.190	2.5	121240.900	3.5
650.0311	23.00	-4.99	11100.650	4.5	26480.280	3.5
650.0408	17.01	-3.94	137877.600	2.0	153257.000	2.0
650.0556	7.01	-1.47	211103.630	3.0	226482.680	3.0
650.0590	28.01	-1.33	121294.670	4.5	136673.640	4.5
650.0632	28.01	-4.28	114836.630	3.5	130215.500	4.5
650.0639	22.00	-3.77	27480.047	3.0	42858.900	3.0
650.0768	14.02	-.96	234387.640	1.0	249766.190	1.0
650.0780	28.01	-4.93	122144.990	2.5	137523.510	3.5
650.1038	28.01	-2.24	106007.890	2.5	121385.800	1.5
650.1191	22.00	-3.07	26494.322	2.0	41871.870	2.0
650.1194	24.00	-4.07	7927.470	2.0	23305.010	2.0
650.1220	24.00	-3.09	35572.940	2.0	50950.420	3.0
650.1221	14.00	-2.67	48264.292	3.0	63641.770	3.0
650.1287	28.01	-2.43	118939.530	5.5	134316.850	6.5
650.1351	18.01	-.57	195281.380	.5	210658.550	1.5
650.1550	63.00	-.51	15324.929	0.0	30705.877	0.0
650.1685	28.01	-3.04	115565.980	2.5	130942.360	1.5
650.1694	18.01	-3.57	189040.870	1.5	204417.230	1.5
650.1710	28.01	-3.91	115565.980	2.5	130942.300	1.5
650.1741	22.00	-2.48	20062.980	1.0	35439.228	1.0
650.1854	24.00	-2.47	33934.880	3.0	49310.860	3.0
650.1905	23.00	-3.53	26738.310	4.5	42114.170	3.5
650.2000	62.01	-1.97	12501.916	0.0	27881.799	0.0
650.2075	9.00	-1.20	117622.923	2.5	132998.380	1.5
650.2086	18.01	-3.55	172213.800	1.5	187589.230	2.5
650.2171	18.01	-3.53	174820.930	.5	190196.160	.5
650.2180	24.00	-2.87	33935.650	2.0	49310.860	3.0
650.2212	28.00	-2.47	27414.893	2.0	42790.027	2.0
650.2233	17.00	-3.92	83894.037	3.5	99269.121	2.5
650.2590	28.01	-4.57	122144.990	2.5	137519.230	2.5
650.2784	25.01	-4.13	55371.300	3.0	70745.080	3.0
650.3123	25.00	-2.84	41932.640	3.5	57305.620	3.5
650.3260	40.00	-1.20	12421.258	0.0	27798.161	0.0
650.3317	28.01	-2.25	119889.470	5.5	135261.990	4.5
650.3406	15.01	-.25	87967.700	3.0	103340.010	2.0
650.3427	28.01	-4.23	114836.630	3.5	130208.890	3.5
650.3500	90.01	-2.45	11050.080	0.0	26426.416	0.0
650.3592	20.02	-1.63	343784.960	1.0	359156.830	1.0
650.3620	92.00	-1.88	4194.191	0.0	19570.243	0.0
650.3800	26.00	-4.73	40534.180	3.0	55905.560	4.0
650.3821	16.01	-.75	140750.000	1.5	156121.330	2.5
650.3867	10.01	-3.74	302831.170	3.5	318202.390	2.5
650.4000	38.00	.26	18067.285	0.0	33442.439	0.0
650.4049	20.02	-.97	344149.810	2.0	359520.600	2.0
650.4063	28.00	-4.60	43258.792	4.0	58629.550	3.0
650.4121	23.00	-1.45	9544.540	.5	24915.160	1.5
650.4151	26.00	-.71	38175.332	3.0	53545.882	3.0
650.4210	27.00	-1.31	29735.180	3.5	45105.590	3.5
650.4210	10.01	-1.06	302831.800	.5	318202.210	1.5
650.4227	25.00	-1.64	51638.170	2.5	67008.540	2.5
650.4443	16.01	-1.52	115817.000	2.5	131186.860	2.5
650.4460	60.01	-2.26	9598.245	0.0	24972.311	0.0
650.4464	14.02	-.88	214994.650	1.0	230364.460	0.0
650.4469	10.01	-2.30	302831.800	.5	318201.600	.5
650.4506	26.00	-4.72	33765.291	2.0	49135.003	3.0
650.4612	7.01	-.63	187491.900	3.0	202861.360	3.0
650.4778	22.00	-3.95	27355.042	1.0	42724.110	2.0
650.4845	22.01	-4.18	24961.340	1.5	40330.250	.5
650.4986	22.00	-3.27	33655.853	2.0	49024.430	3.0
650.5065	26.01	-4.32	50187.950	3.5	65556.340	4.5
650.5222	26.00	-3.65	35611.608	3.0	50979.627	4.0
650.5362	10.01	-4.67	302829.060	4.5	318196.750	5.5
650.5425	28.01	-3.06	114052.040	3.5	129419.580	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
650.5674	10.01	.27	313480.200	3.5	328847.150	3.5
650.5691	10.01	1.07	313480.240	4.5	328847.150	3.5
650.5692	28.01	-4.18	114869.350	1.5	130236.260	2.5
650.5717	10.01	-1.28	313480.200	3.5	328847.050	4.5
650.5733	10.01	-.37	313480.240	4.5	328847.050	4.5
650.5819	28.01	-.21	105861.190	2.5	121227.800	2.5
650.5848	28.01	-4.42	116468.400	1.5	131834.940	2.5
650.5869	28.01	-2.18	118563.390	3.5	133929.880	3.5
650.5902	22.00	-4.96	31914.277	5.0	47280.690	5.0
650.6140	29.00	-1.95	56621.579	0.0	71991.676	0.0
650.6144	18.01	-2.50	179931.770	1.5	195297.610	1.5
650.6230	57.00	-.91	14034.408	0.0	29404.292	0.0
650.6289	7.00	-3.37	94881.790	3.5	110247.288	3.5
650.6304	55.00	-4.88	14499.257	0.0	29868.966	0.0
650.6331	13.01	-1.17	133435.000	2.0	148800.400	3.0
650.6360	40.00	-2.11	5000.766	0.0	20370.343	0.0
650.6505	23.02	-1.27	146223.050	3.5	161588.040	3.5
650.6528	10.00	.03	134459.287	1.0	149824.221	2.0
650.6839	30.02	-3.44	284689.000	1.0	300053.200	2.0
650.7011	7.00	-4.43	94830.860	2.5	110194.654	1.5
650.7208	10.01	-1.54	302816.980	1.5	318180.310	2.5
650.7377	10.01	-3.20	302839.280	2.5	318202.210	1.5
650.7394	10.01	-1.80	302816.980	1.5	318179.870	1.5
650.7394	10.01	-2.06	302829.060	4.5	318191.950	3.5
650.7486	26.00	-4.04	35856.386	2.0	51219.059	3.0
650.7500	18.01	-2.76	186890.950	2.5	202253.590	1.5
650.7729	8.02	-.18	365723.900	1.0	381086.000	1.0
650.7729	17.00	-3.21	84688.637	.5	100050.736	1.5
650.7918	22.00	-3.78	12118.394	4.0	27480.047	3.0
650.7945	28.01	-4.20	114970.190	.5	130331.780	1.5
650.8020	74.00	-2.55	13711.778	0.0	29077.435	0.0
650.8038	15.01	-.43	87805.000	2.0	103166.370	1.0
650.8068	15.00	-3.92	66834.500	1.5	82195.800	1.5
650.8124	22.00	-2.22	11531.760	2.0	26892.926	3.0
650.8135	26.01	-4.13	45079.910	2.5	60441.050	1.5
650.8203	14.01	-2.57	111184.720	.5	126545.700	.5
650.8220	18.01	-1.27	195297.610	1.5	210658.550	1.5
650.8288	10.01	-2.74	302831.170	3.5	318191.950	3.5
650.8292	10.01	-2.08	302831.170	3.5	318191.940	2.5
650.8364	22.00	-3.96	26657.409	4.0	42018.010	5.0
650.8390	28.01	-2.75	122175.420	2.5	137535.960	3.5
650.8394	20.02	-3.06	347758.220	2.0	363118.750	3.0
650.8394	10.01	-.94	313457.540	2.5	328818.070	3.5
650.8403	10.01	-2.63	313457.540	2.5	328818.050	2.5
650.8407	10.01	.37	313457.570	3.5	328818.070	3.5
650.8415	10.01	-1.11	313457.570	3.5	328818.050	2.5
650.8584	25.00	-1.65	47154.510	1.5	62514.590	2.5
650.8619	13.01	-2.23	133440.400	3.0	148800.400	3.0
650.8619	13.01	-1.27	133440.400	3.0	148800.400	4.0
650.8619	13.01	-1.45	133440.400	3.0	148800.400	4.0
650.8650	22.00	-4.58	27498.975	3.0	42858.900	3.0
650.8762	23.02	-2.32	147400.620	4.5	162760.280	4.5
650.8784	27.00	-2.13	32841.990	4.5	48201.600	3.5
650.8796	26.02	-4.20	167085.120	3.0	182444.700	3.0
650.8822	28.01	.69	118563.390	3.5	133922.910	4.5
650.8850	20.00	-2.26	20371.000	3.0	35730.454	2.0
650.8850	20.00	-2.50	20371.000	3.0	35730.454	2.0
650.8894	24.00	-2.75	31009.000	3.0	46368.350	3.0
650.9089	38.01	-2.36	53286.310	0.0	68649.443	0.0
650.9102	18.01	-3.18	143371.350	1.5	158730.210	2.5
650.9102	10.01	-2.12	302843.530	3.5	318202.390	2.5
650.9127	13.01	-4.79	132213.200	1.0	147572.000	2.0
650.9169	17.00	-3.02	84988.480	1.5	100347.182	2.5
650.9279	24.00	-1.86	37233.500	5.0	52591.940	5.0
650.9355	10.01	-2.25	302844.110	2.5	318202.370	1.5
650.9440	62.00	-1.64	241.973	0.0	15604.278	0.0
650.9457	28.01	-.19	104298.230	4.5	119656.250	3.5
650.9576	14.02	-3.10	242473.660	3.0	257831.400	3.0
650.9576	14.02	-4.90	242473.660	3.0	257831.400	4.0
650.9576	14.02	-2.05	242473.660	3.0	257831.400	2.0
650.9590	26.00	-2.31	32873.623	4.0	48231.330	5.0
650.9661	14.02	-2.18	242473.860	4.0	257831.400	3.0
650.9661	14.02	-3.36	242473.860	4.0	257831.400	4.0
650.9834	14.02	-3.46	242474.270	4.0	257831.400	4.0
650.9834	14.02	-2.28	242474.270	4.0	257831.400	3.0
650.9979	28.01	-4.22	121190.340	4.5	136547.130	3.5
650.9992	28.01	-1.49	124652.000	4.5	140008.760	3.5
651.0047	23.00	-4.62	8578.520	2.5	23935.150	2.5
651.0063	14.02	-1.81	242474.810	5.0	257831.400	4.0
651.0161	26.00	-3.31	36940.600	2.0	52296.960	2.0
651.0170	28.01	.34	104646.520	3.5	120002.860	3.5
651.0225	24.00	-1.95	31364.330	3.0	46720.540	4.0
651.0246	28.01	-2.96	121190.340	4.5	136546.500	4.5
651.0250	28.01	-2.32	118379.110	2.5	133735.260	2.5
651.0271	10.01	1.04	313461.970	4.5	328818.070	3.5
651.0347	10.01	-2.43	302425.870	1.5	317781.790	1.5
651.0369	28.01	-.15	118379.110	2.5	133734.980	3.5
651.0410	45.00	-1.71	16050.847	0.0	31410.863	0.0
651.0420	28.01	-2.65	121317.890	3.5	136673.640	4.5
651.0504	10.01	-3.96	302425.870	1.5	317781.420	2.5
651.0568	13.01	-.65	133914.100	2.0	149269.500	3.0
651.0576	10.01	-1.61	302307.750	2.5	317663.130	1.5
651.0649	10.01	-1.69	302829.060	4.5	318184.270	4.5
651.0653	10.01	-2.64	302829.060	4.5	318184.260	3.5
651.0878	10.01	.04	302829.060	4.5	318183.730	5.5
651.0895	10.01	-1.06	302829.060	4.5	318183.690	4.5
651.1090	28.01	-3.23	124652.000	4.5	140006.170	4.5
651.1334	55.00	-3.72	14499.257	0.0	29857.093	0.0
651.1350	90.01	-2.92	8952.985	0.0	24310.783	0.0
651.1361	28.01	-2.07	103025.580	2.5	118379.110	2.5
651.1416	12.02	-.16	570112.800	0.0	585466.200	1.0
651.1416	12.02	-.16	570112.800	0.0	585466.200	1.0
651.1470	75.00	-1.68	17099.394	0.0	32456.909	0.0
651.1544	10.01	-.06	302831.170	3.5	318184.270	4.5
651.1544	13.01	-4.02	133447.300	4.0	148800.400	3.0
651.1544	13.01	-2.46	133447.300	4.0	148800.400	4.0
651.1544	13.01	-2.60	133447.300	4.0	148800.400	4.0
651.1544	13.01	-.93	133447.300	4.0	148800.400	5.0
651.1548	10.01	-1.13	302831.170	3.5	318184.260	3.5
651.1578	9.00	-2.53	117391.950	.5	132744.970	1.5
651.1709	10.01	-3.10	302475.610	.5	317828.320	.5
651.1743	26.02	-3.35	136185.170	5.0	151537.800	4.0
651.1790	10.01	-1.98	302831.170	3.5	318183.690	4.5
651.1798	23.02	-.78	146983.380	2.5	162335.880	3.5
651.1891	28.01	-2.01	105838.060	3.5	121190.340	4.5
651.2035	28.01	-4.56	121190.340	4.5	136542.280	3.5
651.2290	23.00	-4.50	19023.470	4.5	34374.810	3.5
651.2303	28.01	-2.67	122175.420	2.5	137526.730	2.5
651.2384	14.02	-1.26	234415.070	0.0	249766.190	1.0
651.2388	18.02	-2.97	211004.850	2.0	226355.960	2.0
651.2438	28.01	-4.75	114874.880	2.5	130225.870	3.5
651.2517	22.00	-3.08	26772.965	5.0	42123.770	6.0
651.2717	9.00	-1.66	117872.916	1.5	133223.250	.5
651.2812	28.01	-3.77	115592.250	1.5	130942.360	1.5
651.2837	28.01	-3.50	115592.250	1.5	130942.300	1.5
651.3427	28.01	-1.40	119913.330	4.5	135261.990	4.5
651.3508	23.00	-4.32	19026.340	2.5	34374.810	3.5
651.3529	10.01	-.78	302843.530	3.5	318191.950	3.5
651.3533	10.01	-2.37	302843.530	3.5	318191.940	2.5
651.3648	24.00	-2.93	49453.940	4.0	64802.080	5.0
651.3669	28.01	-3.94	122175.420	2.5	137523.510	3.5
651.3677	10.01	-1.17	302831.800	.5	318179.870	1.5
651.3775	10.01	-2.65	302844.110	2.5	318191.950	3.5
651.3779	10.01	-.90	302844.110	2.5	318191.940	2.5
651.3805	24.00	-4.73	37244.170	4.0	52591.940	5.0
651.3809	28.01	-4.79	114836.630	3.5	130184.390	2.5
651.3833	18.00	-2.65	107131.755	1.0	122479.459	1.0
651.3835	28.01	-4.04	100609.010	2.5	115956.710	2.5
651.4055	24.00	-1.63	42025.600	3.0	57372.780	4.0
651.4118	28.00	-1.35	42621.048	3.0	57968.080	3.0
651.4157	28.01	-1.21	121385.800	1.5	136732.740	1.5
651.4390	73.00	-1.80	11130.738	0.0	26481.369	0.0
651.4565	15.00	-2.51	66544.120	2.5	81890.100	2.5
651.4594	25.01	-4.59	53698.700	2.0	69044.610	2.0
651.4789	14.00	-3.54	45276.188	1.0	60621.640	0.0
651.4981	9.03	-1.52	519341.000	0.0	534686.000	1.0
651.5250	75.00	-.60	30407.885	0.0	45756.490	0.0
651.5274	10.01	-1.48	302816.980	1.5	318161.290	2.5
651.5278	22.00	-2.03	33680.130	3.0	49024.430	3.0
651.5486	28.01	-4.06	122175.420	2.5	137519.230	2.5
651.5490	13.01	-4.23	123468.100	3.0	138811.900	2.0
651.5533	23.02	-.98	145822.110	1.5	161165.810	2.5
651.5703	26.01	-6.50	27314.930	3.5	42658.230	3.5
651.5775	25.00	-1.73	51638.170	2.5	66981.300	3.5
651.5970	26.02	-4.20	183431.280	5.0	198773.950	5.0
651.6008	24.00	-1.96	31377.960	4.0	46720.540	4.0
651.6068	26.01	-8.21	23317.600	2.5	38660.040	3.5
651.6073	28.00	-2.45	33610.916	2.0	48953.344	1.0
651.6085	25.00	-1.82	42143.570	1.5	57485.970	2.5
651.6100	73.00	-1.80	11130.738	0.0	26477.341	0.0
651.6153	7.01	-.72	211336.160	1.0	226678.400	2.0
651.6170	29.01	-4.12	118484.000	3.0	133826.200	2.0
651.6170	21.01	-3.53	12101.450	1.0	27443.650	2.0
651.6344	29.01	-.93	123556.640	2.0	138898.430	1.0
651.6518	14.01	-2.39	111184.720	.5	126526.100	1.5
651.6535	24.00	-4.46	49370.700	3.0	64712.040	3.0
651.6560	28.01	-1.03	122441.220	4.5	137782.500	4.5
651.6667	10.01	-2.18	302839.280	2.5	318180.310	2.5
651.6789	10.01	-1.79	302843.530	3.5	318184.270	4.5
651.6794	10.01	-2.03	302843.530	3.5	318184.260	3.5
651.6853	10.01	-3.14	302839.280	2.5	318179.870	1.5
651.6892	24.00	-3.64	31009.000	3.0	46349.500	2.0
651.6933	17.00	-4.02	84648.100	2.5	99988.501	2.5
651.7036	10.01	-.36	302843.530	3.5	318183.690	4.5
651.7040	10.01	-.47	302844.110	2.5	318184.260	3.5
651.7096	24.00	-2.93	31028.330	2.0	46368.350	3.0
651.7249	23.01	-1.76	34228.790	3.0	49568.450	3.0
651.7304	28.01	-2.21	121385.800	1.5	136725.330	.5
651.7640	28.01	-4.80	121180.540	4.5	136519.280	4.5
651.7839	28.01	-.49	121561.060	.5	136899.330	1.5
651.7929	26.01	-2.77	58631.650	4.5	73969.710	5.5
651.7946	25.02	-.40	216149.320	3.5	231487.340	4.5
651.8009	25.00	-4.98	37420.240	5.5	52758.110	4.5
651.8009	10.01	-.51	313480.200	3.5	328818.070	3.5
651.8018	10.01	.93	313480.200	3.5	328818.050	2.5
651.8026	10.01	-1.07	313480.240	4.5	328818.070	3.5
651.8043	14.02	-1.26	234428.400	1.0	249766.190	1.0
651.8147	28.00	-3.17	43654.974	3.0	58992.520	2.0
651.8158	14.00	-3.83	49060.601	1.0	64398.120	2.0
651.8374	26.00	-2.70	22838.320	2.0	38175.332	3.0
651.8638	28.01	-2.22	105981.500	4.5	121317.890	3.5
651.8734	14.00	-2.21	48020.074	1.0	63356.240	2.0
651.8753	15.00	-4.47	65787.380	3.5	81123.500	2.5
651.8935	26.00	-4.49	35767.546	4.0	51103.237	5.0
651.8940	92.00	-1.64	6210.629	0.0	21550.546	0.0
651.8957	24.00	-.76	42025.600	3.0	57361.240	3.0
651.8980	22.00	-4.02	33700.874	4.0	49036.460	4.0
651.9059	17.01	-2.52	146013.000	2.0	161348.400	1.0
651.9089	28.01	-3.60	122441.220	4.5	137776.550	3.5
651.9123	23.00	-3.35	21603.170	4.5	36938.420	5.5
651.9327	26.02	-3.50	136200.130	3.0	151534.900	2.0
651.9369	28.01	-3.41	115565.980	2.5	130900.650	2.5
651.9374	26.02	-4.89	190397.710	2.0	205732.370	3.0
651.9374	25.00	-2.04	30419.610	2.5	45754.270	3.5
651.9535	28.01	-4.55	116786.420	.5	132120.700	.5
651.9590	63.00	-.36	15566.901	0.0	30905.289	0.0
651.9620	28.01	-4.29	121190.340	4.5	136524.420	4.5
651.9650	28.01	-3.60	114874.880	2.5	130208.890	3.5
651.9700	45.00	-1.56	16857.422	0.0	32195.551	0.0
651.9833	26.02	-3.78	167085.120	3.0	182418.700	4.0
651.9840	42.00	-.29	30327.228	0.0	45665.028	0.0
652.0016	18.01	-3.73	186815.960	3.5	202149.110	2.5
652.0067	24.00	-2.06	31355.210	2.0	46688.240	3.0
652.0087	7.00	-3.70	94770.850	.5	110103.834	1.5
652.0318	18.01	-.32	195297.610	1.5	210630.050	2.5
652.0365	10.01	-2.95	303509.520	2.5	318841.850	3.5
652.0564	25.00	-2.45	35041.370	3.5	50373.230	2.5
652.0850	76.00	-1.77	21212.928	0.0	36548.352	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
652.0938	22.00	-4.28	26657.409	4.0	41988.390	3.0
652.1097	7.00	-4.80	94881.790	3.5	110212.396	2.5
652.1368	16.01	-2.09	114804.110	2.5	130134.080	2.5
652.1475	28.01	-2.76	106369.300	1.5	121699.020	1.5
652.1487	14.02	0.00	227081.190	1.0	242410.880	2.0
652.1621	28.00	-2.27	43258.792	4.0	58588.168	3.0
652.1675	25.00	-3.61	47753.990	2.5	63083.240	1.5
652.1785	25.02	-3.19	176683.760	2.5	192012.750	1.5
652.1837	22.00	-2.48	26494.322	2.0	41823.190	3.0
652.2181	26.02	-4.47	190404.310	3.0	205732.370	3.0
652.2334	7.01	-1.72	187437.560	1.0	202765.260	2.0
652.2355	28.01	-4.50	121180.550	5.5	136508.200	5.5
652.2364	25.00	-2.27	47903.800	4.5	63231.430	4.5
652.2419	17.01	-1.51	146469.000	3.0	161796.500	3.0
652.2572	24.00	-3.04	31393.400	5.0	46720.540	4.0
652.2606	14.02	.17	227084.210	2.0	242411.270	3.0
652.2623	24.00	-2.19	31377.960	4.0	46704.980	5.0
652.2720	63.00	-.93	15808.874	0.0	31139.902	0.0
652.2772	14.02	-.73	227084.210	2.0	242410.880	2.0
652.3087	24.00	-2.51	31352.420	1.0	46678.350	1.0
652.3150	60.01	-2.58	7420.492	0.0	22750.509	0.0
652.3258	25.02	-.99	216062.130	2.5	231387.660	3.5
652.3450	78.00	.23	37183.117	0.0	52512.429	0.0
652.3462	24.00	-.64	42025.600	3.0	57350.650	2.0
652.3636	24.00	-2.43	31352.420	1.0	46677.060	2.0
652.3711	22.00	-3.40	31205.985	3.0	46530.450	4.0
652.3905	14.02	-.56	234442.180	2.0	249766.190	1.0
652.3947	24.00	-2.16	31364.330	3.0	46688.240	3.0
652.3998	26.02	-3.36	167085.120	3.0	182408.910	3.0
652.4094	14.00	-3.46	49028.294	0.0	64351.860	1.0
652.4098	22.00	-.91	33700.874	4.0	49024.430	3.0
652.4164	26.02	-2.94	189679.070	3.0	205002.470	3.0
652.4258	28.01	-3.18	106133.140	1.5	121456.320	1.5
652.4275	24.00	-2.62	31355.210	2.0	46678.350	1.0
652.4343	14.02	.33	227088.720	3.0	242411.700	4.0
652.4377	28.01	-.43	118631.950	.5	133954.850	.5
652.4419	9.02	-2.01	442636.270	3.5	457959.070	3.5
652.4458	23.00	-1.77	21603.170	4.5	36925.880	3.5
652.4526	14.02	-.73	227088.720	3.0	242411.270	3.0
652.4692	14.02	-2.28	227088.720	3.0	242410.880	2.0
652.4740	26.00	-3.66	40404.492	1.0	55726.540	0.0
652.4756	10.01	-2.82	302839.280	2.5	318161.290	2.5
652.4824	24.00	-2.52	31355.210	2.0	46677.060	2.0
652.5050	26.00	-3.74	36975.640	3.0	52296.960	2.0
652.5114	24.00	-3.09	31028.330	2.0	46349.500	2.0
652.5284	16.01	-3.08	140708.510	2.5	156029.280	1.5
652.5293	28.01	-2.82	121227.800	2.5	136548.550	2.5
652.5318	28.01	-3.77	120144.170	2.5	135464.860	3.5
652.5582	10.01	-.51	303508.480	1.5	318828.550	2.5
652.5655	28.01	-2.03	101754.800	2.5	117074.700	3.5
652.5740	30.02	-3.15	284689.000	1.0	300008.700	1.0
652.5898	28.01	-2.73	121227.800	2.5	136547.130	3.5
652.6025	10.01	-1.66	303509.520	2.5	318828.550	2.5
652.6025	10.01	-1.30	303509.520	2.5	318828.550	3.5
652.6123	26.02	-4.36	190413.570	4.0	205732.370	3.0
652.6391	14.00	-3.34	47351.554	2.0	62669.727	2.0
652.6503	25.00	-1.82	35041.370	3.5	50359.280	3.5
652.6520	10.01	-1.79	302839.280	2.5	318157.150	3.5
652.6524	28.01	-2.08	121190.340	4.5	136508.200	5.5
652.6571	17.00	-4.26	85735.091	1.5	101052.840	2.5
652.6631	14.00	-3.97	47351.554	2.0	62669.164	3.0
652.6665	26.02	-2.90	186882.980	3.0	202200.510	3.0
652.6801	24.00	-3.69	35572.940	2.0	50890.150	2.0
652.6805	28.01	-1.54	106007.890	2.5	121325.090	2.5
652.6852	25.02	-2.67	179228.690	1.5	194545.780	.5
652.6976	26.02	-4.32	183457.150	4.0	198773.950	5.0
652.6990	57.01	-2.73	1855.123	0.0	17176.121	0.0
652.7040	92.00	-2.24	5726.684	0.0	21047.565	0.0
652.7109	2.01	-.61	421353.130	0.0	436673.849	0.0
652.7121	16.01	-2.28	115870.400	1.5	131186.860	2.5
652.7202	14.00	-2.18	47351.554	2.0	62667.823	3.0
652.7310	56.00	.27	9215.000	0.0	24535.247	0.0
652.7964	28.01	-2.30	121227.800	2.5	136542.280	3.5
652.8007	27.00	-4.19	27497.060	2.5	42811.440	3.5
652.8017	28.00	-2.53	42653.723	2.0	57968.080	3.0
652.8020	62.00	-1.52	2258.411	0.0	17576.992	0.0
652.8105	10.01	-1.40	303527.740	4.5	318841.890	4.5
652.8122	10.01	-2.99	303527.740	4.5	318841.850	3.5
652.8357	28.01	-.67	122441.220	4.5	137754.780	5.5
652.8441	10.01	-1.53	303528.530	3.5	318841.890	4.5
652.8459	10.01	-1.47	303528.530	3.5	318841.850	3.5
652.8523	28.01	-.89	105981.500	4.5	121294.670	4.5
652.8638	13.01	-2.37	132819.700	3.0	148132.600	3.0
652.8650	26.00	-4.71	25091.620	0.0	40404.492	1.0
652.8710	24.00	-2.59	31364.330	3.0	46677.060	2.0
652.8723	13.01	-1.47	132819.900	2.0	148132.600	3.0
652.8745	28.01	-.92	122441.220	4.5	137753.870	4.5
652.8804	26.02	-4.51	105929.160	3.0	121241.670	4.0
652.8870	76.00	-1.72	20890.298	0.0	36206.884	0.0
652.9175	10.01	-2.94	302890.570	2.5	318202.210	1.5
652.9201	24.00	-1.56	31393.400	5.0	46704.980	5.0
652.9713	23.00	-4.66	34486.800	2.5	49797.180	3.5
652.9715	7.00	-2.89	94793.460	1.5	110103.834	1.5
652.9730	57.01	-3.06	7339.834	0.0	22654.403	0.0
652.9749	17.00	-3.11	85735.091	1.5	101045.386	1.5
652.9755	24.00	-2.53	31377.960	4.0	46688.240	3.0
652.9802	28.01	-1.51	121456.320	1.5	136766.490	2.5
653.0006	17.00	-2.28	85917.937	.5	101227.630	.5
653.0084	28.01	-3.50	114874.880	2.5	130184.390	2.5
653.0519	16.01	-1.33	110176.830	1.5	125485.320	.5
653.0557	28.01	-3.20	115592.250	1.5	130900.650	2.5
653.0577	18.00	-3.37	107131.755	1.0	122440.109	2.0
653.0877	28.01	-3.64	121240.900	3.5	136548.550	2.5
653.0947	22.00	-4.25	26564.385	3.0	41871.870	2.0
653.1120	25.02	-4.04	177269.340	1.5	192576.420	2.5
653.1340	90.00	-1.57	6291.287	0.0	21602.081	0.0
653.1419	23.00	-.99	9824.580	2.5	25130.960	2.5
653.1434	17.00	-1.18	83894.037	3.5	99200.382	3.5
653.1483	28.01	-2.80	121240.900	3.5	136547.130	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
653.1500	23.00	-3.05	23935.150	2.5	39241.340	2.5
653.1505	10.01	-3.90	302475.610	.5	317781.790	1.5
653.1541	22.00	-2.93	27418.015	2.0	42724.110	2.0
653.1752	28.01	-2.62	121240.900	3.5	136546.500	4.5
653.1957	24.00	-1.90	49635.160	6.0	64940.280	7.0
653.2250	62.00	-1.75	806.575	0.0	16115.236	0.0
653.2268	25.01	-4.00	54846.000	0.0	70150.390	1.0
653.2297	17.00	-2.44	85735.091	1.5	101039.413	.5
653.2420	74.00	-1.60	20325.695	0.0	35633.957	0.0
653.2486	14.00	-3.94	49060.601	1.0	64364.480	2.0
653.2563	7.01	-.96	187461.560	2.0	202765.260	2.0
653.2665	28.01	-3.48	121227.800	2.5	136531.260	1.5
653.2810	24.00	-1.35	42079.810	4.0	57382.930	5.0
653.2871	28.00	-3.59	15609.861	2.0	30912.838	1.0
653.2882	10.00	-.44	134818.640	0.0	150121.592	1.0
653.3122	24.01	-3.14	74318.860	2.5	89621.250	3.5
653.3140	76.00	-2.43	15082.956	0.0	30389.531	0.0
653.3259	26.02	-4.09	136235.840	1.0	151537.910	0.0
653.3404	28.01	-1.00	122441.220	4.5	137742.950	5.5
653.3553	28.01	-3.87	121240.900	3.5	136542.280	3.5
653.3784	26.02	-4.49	136235.840	1.0	151536.680	1.0
653.3797	10.01	-3.25	303527.740	4.5	318828.550	3.5
653.3865	24.00	-3.24	31048.850	1.0	46349.500	2.0
653.3929	26.00	-1.24	36766.950	3.0	52067.450	2.0
653.4134	10.01	-3.69	303528.530	3.5	318828.550	2.5
653.4134	10.01	-1.47	303528.530	3.5	318828.550	3.5
653.4172	25.00	-2.60	35041.370	3.5	50341.300	4.5
653.4220	10.01	-2.40	302902.570	1.5	318202.390	2.5
653.4228	10.01	-1.15	302902.570	1.5	318202.370	1.5
653.4309	27.00	-3.70	27497.060	2.5	42796.670	1.5
653.4343	26.01	-4.71	49506.990	1.5	64806.520	.5
653.4484	13.01	-2.44	124792.000	2.0	140091.200	1.0
653.4506	25.02	-1.77	216062.130	2.5	231361.280	2.5
653.4506	28.01	-3.83	114874.880	2.5	130174.030	1.5
653.4681	10.01	-.96	302903.650	2.5	318202.390	2.5
653.4690	10.01	-2.14	302903.650	2.5	318202.370	1.5
653.4886	28.01	.05	120903.200	3.5	136201.460	3.5
653.4894	24.00	-3.15	49538.060	5.0	64836.300	6.0
653.5108	27.00	-3.76	39649.160	3.5	54946.900	2.5
653.5121	21.00	-3.26	21032.780	2.5	36330.490	2.5
653.5164	14.02	-1.98	242639.380	5.0	257936.990	5.0
653.5164	14.02	-2.08	242639.380	5.0	257936.990	5.0
653.5164	14.02	-3.88	242639.380	6.0	257936.990	5.0
653.5164	14.02	-.18	242639.380	5.0	257936.990	6.0
653.5164	14.02	-3.63	242639.380	5.0	257936.990	6.0
653.5164	14.02	-4.84	242639.380	5.0	257936.990	6.0
653.5164	14.02	-.17	242639.380	5.0	257936.990	6.0
653.5164	14.02	-1.98	242639.380	6.0	257936.990	6.0
653.5164	14.02	-2.07	242639.380	6.0	257936.990	6.0
653.5164	14.02	-.11	242639.380	6.0	257936.990	7.0
653.5164	14.02	-.26	242639.380	4.0	257936.990	5.0
653.5202	23.00	-2.42	19189.280	1.5	34486.800	2.5
653.5219	24.00	-4.29	49453.940	4.0	64751.420	4.0
653.5254	8.01	-4.40	232711.700	.5	248009.100	1.5
653.5566	16.00	-1.68	64888.014	1.0	80184.680	1.0
653.6184	17.00	-3.58	85442.430	1.5	100737.650	.5
653.6328	22.00	-2.02	26910.705	6.0	42205.590	7.0
653.6357	16.00	-1.20	64888.014	1.0	80182.830	2.0
653.6403	23.00	-3.47	21603.170	4.5	36897.880	4.5
653.6580	92.01	-2.97	5565.369	0.0	20863.889	0.0
653.6602	16.00	-1.55	64890.436	0.0	80184.680	1.0
653.6659	28.01	-2.77	100490.950	1.5	115785.060	1.5
653.6685	29.01	-4.74	118532.150	2.0	133826.200	2.0
653.7009	25.02	-1.13	216194.050	5.5	231487.340	4.5
653.7108	28.01	-2.68	120044.950	4.5	135338.010	5.5
653.7113	16.00	-2.85	64891.632	2.0	80184.680	1.0
653.7133	28.01	-3.91	118774.760	.5	134067.760	1.5
653.7146	24.00	-.44	42079.810	4.0	57372.780	4.0
653.7146	25.01	-3.67	54938.100	1.0	70231.070	2.0
653.7266	28.01	-1.47	122270.050	3.5	137562.740	3.5
653.7304	28.00	-3.11	43933.428	2.0	59226.030	1.0
653.7369	28.01	-1.81	118442.810	1.5	133735.260	2.5
653.7381	26.01	-4.39	62945.120	3.5	78237.540	3.5
653.7475	26.00	-4.13	29371.860	3.0	44664.061	2.0
653.7675	22.00	-1.55	26892.926	3.0	42184.660	4.0
653.7826	28.01	-3.81	121561.060	.5	136852.440	1.5
653.7878	14.00	-3.37	49060.601	1.0	64351.860	1.0
653.7903	24.00	-4.31	33040.100	2.0	48331.300	1.0
653.7904	16.00	-1.68	64891.632	2.0	80182.830	2.0
653.7929	24.00	-3.87	8095.210	3.0	23386.350	3.0
653.8044	18.01	-1.71	179592.130	2.5	194883.000	3.5
653.8110	18.00	-2.72	105462.804	3.0	120753.520	3.0
653.8140	74.00	-1.74	19680.435	0.0	34975.305	0.0
653.8150	64.00	-.02	16776.764	0.0	32071.610	0.0
653.8279	25.00	-1.94	51718.220	1.5	67008.540	2.5
653.8300	76.00	-2.35	13953.751	0.0	29248.247	0.0
653.8313	22.01	-4.02	53554.900	2.5	68845.140	2.5
653.8496	26.00	-2.29	33412.706	3.0	48702.518	4.0
653.8498	16.00	-.93	64891.632	2.0	80181.440	3.0
653.8528	10.01	-2.13	302890.570	2.5	318180.310	2.5
653.8540	22.00	-4.57	25797.600	3.0	41087.310	3.0
653.8600	39.00	-.41	18389.915	0.0	33683.709	0.0
653.8686	10.01	-.39	302902.570	1.5	318191.940	2.5
653.8690	9.02	-1.47	426989.570	3.5	442278.930	2.5
653.8712	21.01	-4.23	12154.340	2.0	27443.650	2.0
653.8716	10.01	-3.07	302890.570	2.5	318179.870	1.5
653.8784	20.02	-.29	331403.200	1.0	346692.340	0.0
653.8925	23.00	-4.68	34428.760	1.5	49717.570	2.5
653.8970	26.00	-1.41	38678.015	2.0	53966.720	2.0
653.9070	29.01	-2.75	123304.630	1.0	138593.100	1.0
653.9143	10.01	-.23	302903.650	2.5	318191.950	3.5
653.9147	10.01	-1.64	302903.650	2.5	318191.940	2.5
653.9203	28.01	-3.94	115827.120	3.5	131115.280	4.5
653.9220	23.00	-4.93	19189.280	1.5	34477.400	.5
653.9493	10.01	-.03	303824.230	3.5	319111.710	4.5
653.9498	10.01	-1.58	303824.230	3.5	319111.700	3.5
653.9690	10.01	-.15	303824.680	2.5	319111.700	3.5
653.9724	9.00	-2.96	117308.558	1.5	132595.500	2.5
653.9823	25.00	-2.93	47466.660	1.5	62753.370	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
653.9940	60.01	-2.53	5968.656	0.0	21259.316	0.0
653.9990	26.02	-4.75	183431.280	5.0	198717.600	4.0
654.0093	28.01	-4.78	98122.630	.5	113408.710	1.5
654.0217	28.01	-2.42	98467.250	3.5	113753.040	4.5
654.0281	23.00	-4.93	9544.540	.5	24830.180	1.5
654.0426	18.01	-3.97	174820.930	.5	190106.230	1.5
654.0512	13.01	-.78	133914.100	2.0	149199.200	3.0
654.0542	28.01	-3.47	121042.520	1.5	136327.550	1.5
654.0563	28.01	-1.87	121042.570	1.5	136327.550	1.5
654.0636	27.00	-4.03	18389.570	1.5	33674.380	2.5
654.1188	28.01	-2.50	121240.900	3.5	136524.420	4.5
654.1194	17.00	-2.37	84688.637	.5	99972.144	.5
654.1466	26.00	-2.31	36766.950	3.0	52049.820	2.0
654.1680	28.01	-3.87	116838.330	1.5	132120.700	.5
654.2083	24.00	-.70	42079.810	4.0	57361.240	3.0
654.2164	26.00	-3.23	42532.729	3.0	57813.970	3.0
654.2246	20.02	-.37	325467.670	2.0	340748.720	2.0
654.2434	10.01	-3.60	302903.650	2.5	318184.260	3.5
654.2440	17.00	-2.18	84485.309	1.5	99765.906	2.5
654.2523	22.00	-4.33	31914.277	5.0	47194.680	4.0
654.2760	62.01	-1.30	11695.340	0.0	26979.410	0.0
654.2914	23.00	-2.58	21646.390	3.5	36925.880	3.5
654.2926	23.00	-4.42	10892.500	3.5	26171.960	4.5
654.2970	92.00	-1.78	7017.204	0.0	22300.783	0.0
654.3003	16.01	-4.11	140750.000	1.5	156029.280	1.5
654.3119	13.02	-1.66	201971.160	3.5	217250.170	3.5
654.3119	13.02	-.12	201971.160	3.5	217250.170	4.5
654.3119	13.02	-.23	201971.160	2.5	217250.170	3.5
654.3160	57.00	-1.21	2581.041	0.0	17864.176	0.0
654.3380	17.01	-2.18	159574.200	2.0	174852.600	3.0
654.3385	21.00	-3.50	18000.250	2.5	33278.640	3.5
654.3466	23.00	-1.84	9636.960	1.5	24915.160	1.5
654.3856	24.01	-4.88	53566.220	3.5	68843.510	3.5
654.3926	26.00	-4.31	35257.309	4.0	50534.435	3.0
654.4027	28.01	-1.28	121050.660	2.5	136327.550	1.5
654.4168	7.01	-1.33	187437.560	1.0	202714.120	1.0
654.4212	22.00	-3.22	31373.801	3.0	46650.260	3.0
654.4228	28.01	-1.98	121456.320	1.5	136732.740	1.5
654.4237	17.01	-1.93	158768.600	2.0	174045.000	3.0
654.4305	9.02	-2.02	442278.930	2.5	457555.170	1.5
654.4510	29.00	-1.75	56621.579	0.0	71901.562	0.0
654.4570	62.01	-2.04	9356.272	0.0	24636.115	0.0
654.4610	41.00	-1.67	9436.930	0.0	24716.679	0.0
654.4910	75.00	-1.66	22261.476	0.0	37540.525	0.0
654.5342	25.00	-1.86	47299.290	.5	62573.110	1.5
654.5540	7.01	-1.73	187491.900	3.0	202765.260	2.0
654.5705	7.00	-2.59	94830.860	2.5	110103.834	1.5
654.5973	12.01	-1.39	93799.700	3.5	109072.050	3.5
654.5973	12.01	.15	93799.700	3.5	109072.050	4.5
654.5973	12.01	.04	93799.700	2.5	109072.050	3.5
654.6245	26.00	-1.72	22249.430	3.0	37521.144	2.0
654.6269	22.00	-1.43	11531.760	2.0	26803.417	2.0
654.6277	24.00	-3.71	35618.510	1.0	50890.150	2.0
654.6312	28.00	-2.98	43258.792	4.0	58530.350	3.0
654.6530	28.01	-.32	118631.950	.5	133903.000	1.5
654.6671	10.01	-2.38	302890.570	2.5	318161.290	2.5
654.6680	29.01	-4.70	130945.000	2.0	146215.700	1.0
654.6790	38.00	-.47	18228.600	0.0	33503.261	0.0
654.6799	10.01	-2.72	302890.570	2.5	318160.990	3.5
654.6984	24.00	-4.99	31028.330	2.0	46298.320	1.0
654.7348	18.01	-2.28	179592.130	2.5	194861.270	2.5
654.7404	28.01	-.70	121456.320	1.5	136725.330	.5
654.7579	26.00	-5.72	7728.058	3.0	22996.661	4.0
654.7713	25.00	-2.59	35114.980	2.5	50383.270	1.5
654.7891	55.00	-4.51	14596.845	0.0	29868.938	0.0
654.8009	22.00	-4.44	25926.820	4.0	41194.420	3.0
654.8199	22.00	-4.56	32013.534	6.0	47280.690	5.0
654.8348	28.01	-.35	104646.520	3.5	119913.330	4.5
654.8447	10.01	-1.71	302890.570	2.5	318157.150	3.5
654.8481	17.01	-1.94	128729.800	3.0	143996.300	4.0
654.8678	28.01	-1.05	122441.220	4.5	137707.260	3.5
654.8734	28.01	-4.27	122270.050	3.5	137535.960	3.5
654.8764	28.01	-4.31	114869.350	1.5	130135.190	1.5
654.9120	63.00	-1.23	15808.874	0.0	31078.101	0.0
654.9172	6.00	-4.24	68856.330	1.0	84121.220	0.0
654.9180	7.00	-2.41	94770.850	.5	110035.720	.5
654.9250	64.00	-.14	17825.312	0.0	33094.236	0.0
654.9395	25.01	-3.18	66893.790	1.0	82158.160	0.0
654.9442	28.01	-.42	121325.090	2.5	136589.350	3.5
654.9472	26.02	-3.19	189679.070	3.0	204943.260	2.0
654.9545	24.00	-4.50	49538.060	5.0	64802.080	5.0
654.9770	62.01	-2.14	8469.040	0.0	23736.752	0.0
654.9770	81.00	-.95	26294.352	0.0	41562.064	0.0
654.9854	28.01	-4.53	115870.280	2.5	131133.580	2.5
654.9919	22.00	-3.85	26494.322	2.0	41757.470	3.0
654.9931	8.01	-4.26	232745.980	1.5	248009.100	1.5
654.9961	20.02	-3.21	347758.220	2.0	363021.270	2.0
655.0021	25.01	-4.71	53781.700	3.0	69044.610	2.0
655.0120	20.02	-2.62	344257.920	1.0	359520.600	2.0
655.0154	24.00	-4.21	27176.220	1.0	42438.820	2.0
655.0154	29.01	-4.88	131312.700	3.0	146575.300	2.0
655.0184	29.01	-2.46	123556.640	2.0	138819.170	3.0
655.0260	38.00	.18	21535.558	0.0	36802.128	0.0
655.0355	28.00	-.74	43258.792	4.0	58520.923	5.0
655.0373	14.00	-2.74	49060.601	1.0	64322.690	0.0
655.0442	25.01	-3.25	66893.790	1.0	82155.720	1.0
655.0496	26.00	-4.24	38995.717	1.0	54257.520	2.0
655.0497	17.00	-2.28	85442.430	1.5	100704.230	1.5
655.0510	23.00	-4.49	9636.960	1.5	24898.730	2.5
655.0540	40.00	-1.44	11534.025	0.0	26799.942	0.0
655.0587	8.01	-1.86	232747.510	2.5	248009.100	1.5
655.0652	10.01	.12	302935.330	5.5	318196.770	6.5
655.0652	10.01	.05	302935.310	4.5	318196.750	5.5
655.0660	10.01	-1.77	302935.330	5.5	318196.750	5.5
655.0774	17.00	-1.49	84988.480	1.5	100249.636	2.5
655.0785	28.01	-4.92	122270.050	3.5	137531.180	4.5
655.0901	9.02	-2.22	442294.310	1.5	457555.170	1.5
655.0978	23.00	-3.62	15571.900	2.5	30832.580	2.5
655.0980	29.00	-1.86	56056.976	0.0	71321.868	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
655.1077	26.02	-3.30	183457.150	4.0	198717.600	4.0
655.1339	17.00	-1.82	83130.900	1.5	98390.740	.5
655.1373	6.00	-.86	68856.330	1.0	84116.090	1.0
655.1424	22.00	-4.09	26657.409	4.0	41917.050	4.0
655.1446	27.00	-2.91	15184.040	2.5	30443.630	1.5
655.1489	18.01	-1.45	189934.550	.5	205194.040	1.5
655.1528	28.01	-1.69	105981.500	4.5	121240.900	3.5
655.1563	28.00	-1.61	43258.792	4.0	58518.110	4.0
655.1606	22.00	-2.32	33655.853	2.0	48915.070	2.0
655.1644	28.01	-1.97	120002.860	3.5	135261.990	4.5
655.1681	26.00	-6.98	7985.783	2.0	23244.826	1.0
655.1783	22.00	-3.92	26564.385	3.0	41823.190	3.0
655.1800	62.00	-1.78	1451.835	0.0	16714.816	0.0
655.1871	17.01	-2.76	158786.400	3.0	174045.000	3.0
655.1897	17.00	-3.28	85244.330	.5	100502.871	1.5
655.1968	17.00	-2.19	84988.480	1.5	100246.855	1.5
655.2022	25.00	-1.98	35114.980	2.5	50373.230	2.5
655.2060	18.01	-2.32	186890.950	2.5	202149.110	2.5
655.2082	23.02	-1.02	147127.000	2.5	162385.110	3.5
655.2438	25.01	-3.89	66893.790	1.0	82151.070	2.0
655.2696	28.01	-4.74	122270.050	3.5	137526.730	2.5
655.2750	92.00	-2.18	7259.177	0.0	22519.945	0.0
655.2756	26.00	-1.46	40534.180	3.0	55790.720	3.0
655.2757	22.00	-3.66	27355.042	1.0	42611.580	1.0
655.2992	25.00	-3.54	48168.010	4.5	63424.000	3.5
655.3061	27.00	-2.61	39649.160	3.5	54904.990	2.5
655.3070	60.01	-2.41	6855.889	0.0	22115.912	0.0
655.3100	27.00	-3.69	33462.830	2.5	48718.570	2.5
655.3266	28.00	-4.35	43933.428	2.0	59188.780	3.0
655.3316	22.00	-3.03	22404.690	3.0	37659.927	3.0
655.3555	28.01	-4.00	115870.280	2.5	131124.960	3.5
655.3583	17.00	-3.58	85917.937	.5	101172.553	1.5
655.3598	25.01	-3.58	66901.140	2.0	82155.720	1.0
655.3675	28.01	.13	105861.190	2.5	121115.590	1.5
655.3676	22.00	-2.56	33660.671	1.0	48915.070	2.0
655.3712	22.00	-3.80	26564.385	3.0	41818.700	4.0
655.3883	14.00	-2.17	48102.323	2.0	63356.240	2.0
655.3911	9.00	-1.48	118405.267	.5	133659.120	.5
655.4079	28.01	-4.55	122270.050	3.5	137523.510	3.5
655.4139	16.01	-2.41	118146.500	1.5	133399.820	1.5
655.4160	90.00	-2.64	4920.109	0.0	20177.594	0.0
655.4224	22.00	-1.28	11639.804	3.0	26892.926	3.0
655.4423	28.01	-3.17	106133.140	1.5	121385.800	1.5
655.4465	7.01	-1.71	187461.560	2.0	202714.120	1.0
655.4509	28.01	-4.27	121294.670	4.5	136547.130	3.5
655.4603	26.01	-4.76	63273.030	2.5	78525.270	2.5
655.4754	25.00	-1.70	42053.730	2.5	57305.620	3.5
655.4780	28.01	-3.08	121294.670	4.5	136546.500	4.5
655.4835	27.00	-3.14	33466.870	3.5	48718.570	2.5
655.4926	23.00	-3.65	21646.390	3.5	36897.880	4.5
655.5145	15.00	-2.84	66544.120	2.5	81795.100	3.5
655.5462	14.00	-2.07	48264.292	3.0	63514.533	4.0
655.5596	28.01	-3.39	115565.980	2.5	130815.910	3.5
655.5596	25.01	-3.29	66901.140	2.0	82151.070	2.0
655.5696	22.00	-4.12	32857.721	3.0	48107.420	2.0
655.5794	24.00	-2.97	31048.850	1.0	46298.320	1.0
655.5828	28.00	-2.71	29013.228	2.0	44262.619	2.0
655.5866	22.00	-1.67	26803.417	2.0	42052.720	3.0
655.5871	26.00	-3.74	32873.623	4.0	48122.913	3.0
655.5919	28.01	-4.67	122270.050	3.5	137519.230	2.5
655.6013	10.01	-1.01	302935.310	4.5	318184.270	4.5
655.6018	10.01	-2.74	302935.310	4.5	318184.260	3.5
655.6022	10.01	-2.74	302935.330	5.5	318184.270	4.5
655.6062	22.00	-1.13	11776.806	4.0	27025.652	4.0
655.6181	13.02	-1.77	202003.580	4.5	217252.150	4.5
655.6181	13.02	-.04	202003.580	4.5	217252.150	5.5
655.6181	13.02	-.13	202003.580	3.5	217252.150	4.5
655.6198	26.00	-4.32	43022.969	4.0	58271.500	5.0
655.6237	22.01	-3.66	53596.700	1.5	68845.140	2.5
655.6246	10.01	-2.85	302935.310	4.5	318183.730	5.5
655.6254	10.01	-.92	302935.330	5.5	318183.730	5.5
655.6263	10.01	-3.81	302935.310	4.5	318183.690	4.5
655.6271	10.01	-2.60	302935.330	5.5	318183.690	4.5
655.6293	28.01	-3.80	121042.520	1.5	136290.830	.5
655.6314	28.01	-2.05	121042.570	1.5	136290.830	.5
655.6357	29.01	-4.85	114511.440	1.0	129759.600	1.0
655.6469	24.01	-4.50	69478.060	2.5	84725.960	3.5
655.6500	72.00	-.72	25487.776	0.0	40739.816	0.0
655.6594	28.01	-4.41	121294.670	4.5	136542.280	3.5
655.6680	27.00	-3.97	39649.160	3.5	54896.570	3.5
655.6751	26.00	-1.98	38678.015	2.0	53925.260	1.0
655.6809	14.00	-2.15	49399.670	1.0	64646.780	2.0
655.6813	29.01	-4.46	131312.700	3.0	146559.800	4.0
655.6843	24.01	-4.33	53923.570	4.5	69170.600	5.5
655.6877	28.01	-3.88	115785.060	1.5	131032.010	2.5
655.6921	9.02	-4.98	416185.420	2.5	431432.270	1.5
655.6955	6.00	-3.56	68856.330	1.0	84103.100	2.0
655.7114	17.01	-4.35	159574.200	2.0	174820.600	2.0
655.7176	22.00	-3.30	26772.965	5.0	42019.220	6.0
655.7252	28.01	-4.93	121042.520	1.5	136288.600	2.5
655.7256	22.00	-3.56	26657.409	4.0	41903.480	5.0
655.7260	24.00	-3.54	35813.730	3.0	51059.790	4.0
655.7273	28.01	-1.99	121042.570	1.5	136288.600	2.5
655.7286	28.02	-4.80	121566.700	1.0	136812.700	2.0
655.7342	28.01	-3.14	114052.040	3.5	129297.910	3.5
655.7390	39.00	-2.79	0.000	0.0	15249.970	0.0
655.7600	24.00	-2.47	49466.770	2.0	64712.040	3.0
655.7737	18.01	-4.90	174409.830	1.5	189654.780	2.5
655.7794	23.00	-4.37	9544.540	.5	24789.360	.5
655.7816	14.00	-2.51	47351.554	2.0	62596.320	2.0
655.7867	21.00	-2.17	21085.840	3.5	36330.490	2.5
655.8017	25.00	-2.51	35114.980	2.5	50359.280	3.5
655.8022	23.00	-1.57	11100.650	4.5	26344.940	4.5
655.8046	22.00	-4.10	27614.667	4.0	42858.900	3.0
655.8099	28.00	-3.99	42585.296	4.0	57829.405	5.0
655.8119	22.00	-3.14	27480.047	3.0	42724.110	2.0
655.8155	21.00	-2.34	21032.780	2.5	36276.760	1.5
655.8189	29.01	-3.86	131312.700	3.0	146556.600	3.0
655.8491	25.01	-4.76	66901.140	2.0	82144.340	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
655.8805	28.01	-3.09	114052.040	3.5	129294.510	2.5
655.8895	7.00	-2.41	94793.460	1.5	110035.720	.5
655.9020	28.01	-4.56	114942.420	1.5	130184.390	2.5
655.9024	10.01	-.05	303599.930	3.5	318841.890	4.5
655.9041	10.01	-1.59	303599.930	3.5	318841.850	3.5
655.9119	24.00	-4.83	31987.060	4.0	47228.800	5.0
655.9287	10.01	-.20	303600.500	2.5	318841.850	3.5
655.9338	28.01	-3.83	99844.130	3.5	115085.360	3.5
655.9377	10.01	-2.86	302961.070	1.5	318202.210	1.5
655.9562	22.01	-2.14	16515.790	.5	31756.500	1.5
655.9562	29.01	-.72	121524.670	3.0	136765.380	4.0
655.9670	13.02	-4.21	202009.710	4.5	217250.170	4.5
655.9670	13.02	-2.47	202009.710	5.5	217250.170	4.5
655.9670	13.02	-2.56	202009.710	4.5	217250.170	3.5
655.9773	26.00	-3.19	36940.600	2.0	52180.820	1.0
656.0070	90.01	-1.99	14195.724	0.0	29439.464	0.0
656.0087	2.01	.76	411477.918	0.0	426721.618	0.0
656.0092	23.00	-2.75	19189.280	1.5	34428.760	1.5
656.0450	44.00	-1.40	22906.736	0.0	38149.593	0.0
656.0567	14.00	-1.36	48102.323	2.0	63340.700	3.0
656.0574	10.01	.21	313457.540	2.5	328695.900	2.5
656.0582	25.02	-1.10	216149.320	3.5	231387.660	3.5
656.0583	10.01	-1.07	313457.540	2.5	328695.880	1.5
656.0587	10.01	.91	313457.570	3.5	328695.900	2.5
656.0755	28.01	-.97	121050.660	2.5	136288.600	2.5
656.0915	26.00	-2.93	36975.640	3.0	52213.207	3.0
656.1039	28.01	-3.48	117074.700	3.5	132311.980	4.5
656.1048	10.01	-2.19	302425.870	1.5	317663.130	1.5
656.1228	28.01	-4.14	121090.710	.5	136327.550	1.5
656.1600	73.00	-2.48	10566.135	0.0	25806.320	0.0
656.1706	13.02	-3.45	202003.580	3.5	217239.310	3.5
656.1706	13.02	-1.90	202003.580	4.5	217239.310	3.5
656.1706	13.02	-2.02	202003.580	3.5	217239.310	2.5
656.1771	24.00	-1.33	42153.740	5.0	57389.320	6.0
656.1848	17.02	-3.43	185838.000	1.5	201073.400	.5
656.2046	22.00	-1.34	33680.130	3.0	48915.070	2.0
656.2072	28.01	-2.81	118379.110	2.5	133613.990	1.5
656.2210	26.01	-4.99	45206.490	.5	60441.050	1.5
656.2262	28.01	-1.67	103663.500	1.5	118897.940	2.5
656.2516	28.01	-4.53	118294.170	3.5	133528.020	3.5
656.2925	28.01	-4.87	115870.280	2.5	131103.180	2.5
656.2986	22.01	-5.28	25193.040	2.5	40425.800	1.5
656.3115	28.01	-2.84	114052.040	3.5	129284.500	2.5
656.3218	22.00	-4.66	31805.940	2.0	47038.160	3.0
656.3220	74.01	-2.81	19115.832	0.0	34352.256	0.0
656.3234	5.00	-2.47	48611.817	.5	63844.000	1.5
656.3404	27.00	-2.07	16467.900	4.5	31699.690	4.5
656.3442	24.00	-2.54	49519.720	3.0	64751.420	4.0
656.3481	28.01	-4.13	114942.420	1.5	130174.030	1.5
656.3602	27.00	-4.59	40345.950	2.5	55577.280	1.5
656.3616	9.00	-1.60	118427.823	1.5	133659.120	.5
656.3722	27.00	-4.23	17733.680	3.5	32464.730	4.5
656.3787	27.00	-1.77	36329.860	2.5	51560.760	2.5
656.3890	28.01	-3.18	121317.890	3.5	136548.550	2.5
656.4003	5.00	-2.22	48613.600	1.5	63844.000	2.5
656.4003	5.00	-3.17	48613.600	1.5	63844.000	1.5
656.4063	28.01	-3.87	118631.950	.5	133862.210	1.5
656.4089	17.01	-3.23	144344.000	2.0	159574.200	2.0
656.4136	24.00	-1.37	35398.020	4.0	50628.110	3.0
656.4166	24.01	-3.54	73406.680	.5	88636.700	1.5
656.4188	18.01	-1.31	179592.130	2.5	194822.100	3.5
656.4201	7.01	-1.97	190120.240	1.0	205350.180	2.0
656.4268	22.00	-3.73	20209.444	2.0	35439.228	1.0
656.4283	28.01	-4.09	121294.670	4.5	136524.420	4.5
656.4373	23.00	-4.04	10892.500	3.5	26122.040	3.5
656.4416	29.01	-.34	121524.670	3.0	136754.110	2.0
656.4503	28.01	-2.22	121317.890	3.5	136547.130	3.5
656.4524	24.00	-.21	42153.740	5.0	57382.930	5.0
656.4584	24.00	-2.19	49573.030	4.0	64802.080	5.0
656.4630	59.01	-2.19	7339.834	0.0	22572.985	0.0
656.4770	10.01	-2.89	303599.930	3.5	318828.550	2.5
656.4770	10.01	-2.56	303599.930	3.5	318828.550	3.5
656.4774	28.01	-1.96	121317.890	3.5	136546.500	4.5
656.4780	64.00	.18	17180.052	0.0	32412.855	0.0
656.5016	10.01	-1.60	303600.500	2.5	318828.550	2.5
656.5016	10.01	-.40	303600.500	2.5	318828.550	3.5
656.5171	24.01	-2.30	69498.270	4.5	84725.960	3.5
656.5197	24.00	-4.64	33060.740	3.0	48288.370	4.0
656.5440	57.00	-2.15	1048.548	0.0	16279.820	0.0
656.5451	28.01	-4.53	114970.190	.5	130197.230	1.5
656.5563	25.01	-3.44	55115.800	2.0	70342.580	3.0
656.5684	25.01	-4.75	66929.220	2.0	82155.720	1.0
656.5865	23.00	-2.22	9544.540	.5	24770.620	.5
656.5882	8.01	-.18	232959.260	3.5	248185.300	2.5
656.5899	17.00	-3.45	84485.309	1.5	99711.309	.5
656.5994	28.01	-2.73	118631.950	.5	133857.730	.5
656.6079	22.00	-4.52	31914.277	5.0	47139.860	4.0
656.6335	23.00	-2.13	18805.050	.5	34030.040	1.5
656.6434	24.01	-2.95	73411.940	1.5	88636.700	1.5
656.6542	24.01	-4.01	54678.950	4.5	69903.460	3.5
656.6572	28.01	-4.50	118828.610	2.5	134053.050	2.5
656.6594	28.01	-3.35	121317.890	3.5	136542.280	3.5
656.6853	18.01	-3.74	170400.940	2.5	185624.730	3.5
656.7449	17.00	-2.17	84132.262	2.5	99354.670	1.5
656.7633	26.01	-2.47	83871.310	4.5	99093.290	5.5
656.7703	6.00	-3.56	72610.720	2.0	87832.540	2.0
656.7870	63.00	-.26	15566.901	0.0	30792.537	0.0
656.7966	29.01	-3.77	108335.430	2.0	123556.640	2.0
656.8000	64.01	-1.17	17583.339	0.0	32808.674	0.0
656.8324	15.00	-3.30	66544.120	2.5	81764.500	1.5
656.8415	14.00	-3.65	45276.188	1.0	60496.358	2.0
656.8440	26.00	-4.30	40534.180	3.0	55754.290	2.0
656.8476	22.00	-3.66	26494.322	2.0	41714.350	2.0
656.8574	24.01	-3.21	69506.160	3.5	84725.960	3.5
656.8617	25.02	-1.44	216533.060	6.5	231752.760	5.5
656.8622	23.00	-1.99	21603.170	4.5	36822.860	3.5
656.8626	28.01	-2.97	114052.040	3.5	129271.720	3.5
656.8734	23.00	-3.10	8715.720	3.5	23935.150	2.5
656.8816	10.01	-2.31	302961.070	1.5	318180.310	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
656.8902	24.00	-.72	42153.740	5.0	57372.780	4.0
656.9005	10.01	-2.74	302961.070	1.5	318179.870	1.5
656.9053	24.00	-2.02	49617.610	5.0	64836.300	6.0
656.9062	24.00	-4.32	23512.000	1.0	38730.670	2.0
656.9099	9.00	-1.45	118405.267	.5	133623.850	1.5
656.9186	26.00	-2.66	38175.332	3.0	53393.715	4.0
656.9256	25.00	-2.07	35165.050	1.5	50383.270	1.5
656.9310	62.01	-.81	11937.313	0.0	27159.612	0.0
656.9373	26.02	-3.66	189784.520	2.0	205002.470	3.0
656.9430	40.00	-2.30	5162.081	0.0	20384.102	0.0
656.9525	28.00	-2.48	43654.974	3.0	58872.570	4.0
656.9691	9.00	-2.05	102405.710	2.5	117622.923	2.5
656.9752	14.00	-2.59	49399.670	1.0	64616.740	2.0
656.9766	28.01	-1.81	120044.950	4.5	135261.990	4.5
657.0215	30.02	-.96	219360.000	4.0	234576.000	4.0
657.0314	24.00	-4.49	27223.050	2.0	42438.820	2.0
657.0314	23.02	-.63	147169.340	3.5	162385.110	3.5
657.0344	10.01	-3.64	313480.200	3.5	328695.900	2.5
657.0365	28.00	-3.99	40361.254	3.0	55576.905	3.0
657.0595	25.01	-4.46	66929.220	2.0	82144.340	3.0
657.0670	62.01	-1.91	7985.094	0.0	23204.242	0.0
657.0686	26.00	-4.78	36079.353	3.0	51294.262	3.0
657.0776	25.00	-2.17	35689.980	1.5	50904.680	2.5
657.0960	57.01	-3.33	6129.972	0.0	21348.448	0.0
657.0983	14.02	-4.00	242639.380	4.0	257853.600	4.0
657.0983	14.02	-4.14	242639.380	4.0	257853.600	4.0
657.0983	14.02	-2.37	242639.380	5.0	257853.600	4.0
657.0983	14.02	-2.37	242639.380	5.0	257853.600	4.0
657.0983	14.02	-4.01	242639.380	5.0	257853.600	5.0
657.0983	14.02	-4.12	242639.380	5.0	257853.600	5.0
657.0983	14.02	-2.29	242639.380	6.0	257853.600	5.0
657.0983	14.02	-2.47	242639.380	4.0	257853.600	3.0
657.1020	22.00	-1.88	26892.926	3.0	42107.060	4.0
657.1048	23.00	-3.13	18805.050	.5	34019.120	1.5
657.1169	26.00	-3.62	34636.820	2.0	49850.610	3.0
657.1255	28.01	-1.38	103663.500	1.5	118877.090	1.5
657.1281	28.01	-2.36	121294.670	4.5	136508.200	5.5
657.1294	10.01	-.63	302988.870	.5	318202.370	1.5
657.1380	18.00	-3.29	108722.668	0.0	123935.970	1.0
657.1584	8.01	-.15	232796.270	2.5	248009.100	1.5
657.1696	10.01	-.38	302989.820	1.5	318202.390	2.5
657.1705	10.01	-1.35	302989.820	1.5	318202.370	1.5
657.1787	25.01	-3.08	52653.270	4.0	67865.630	4.0
657.1817	25.01	-4.10	54938.100	1.0	70150.390	1.0
657.1920	22.00	-4.49	19322.988	2.0	34535.040	2.0
657.1960	25.02	-2.51	216149.320	3.5	231361.280	2.5
657.2024	24.00	-4.20	33040.100	2.0	48251.910	3.0
657.2042	27.00	-4.63	39649.160	3.5	54860.930	4.5
657.2046	16.01	-1.01	115817.000	2.5	131028.760	1.5
657.2159	17.01	-4.25	159574.200	2.0	174785.700	1.0
657.2201	26.02	-3.55	167207.300	4.0	182418.700	4.0
657.2410	17.00	-2.06	85735.091	1.5	100946.010	.5
657.2411	14.00	-3.41	45276.188	1.0	60487.103	1.0
657.2487	23.00	-8.56	14910.040	3.5	30120.780	2.5
657.2545	26.00	-4.91	43499.485	4.0	58710.090	3.0
657.2779	20.00	-4.27	0.000	0.0	15210.063	1.0
657.2806	25.00	-3.95	48021.430	5.5	63231.430	4.5
657.2893	24.00	-4.01	8095.210	3.0	23305.010	2.0
657.3021	14.00	-3.31	49188.617	2.0	64398.120	2.0
657.3226	28.01	-3.02	112686.300	2.5	127895.330	3.5
657.3290	23.02	.49	147127.000	2.5	162335.880	3.5
657.3308	28.01	-2.23	105981.500	4.5	121190.340	4.5
657.3590	22.00	-4.64	31829.972	4.0	47038.160	3.0
657.3593	25.00	-2.64	35165.050	1.5	50373.230	2.5
657.3609	9.00	-1.72	118405.267	.5	133613.410	.5
657.3800	64.00	-.38	17663.997	0.0	32875.899	0.0
657.3950	74.00	-1.42	20890.298	0.0	36101.853	0.0
657.4231	26.00	-5.02	7985.783	2.0	23192.486	2.0
657.4306	28.01	-1.92	121317.890	3.5	136524.420	4.5
657.4514	26.01	-2.15	50157.610	4.5	65363.660	5.5
657.4522	21.00	-4.70	17947.980	1.5	33154.010	2.5
657.4730	41.00	-2.40	8630.355	0.0	23840.105	0.0
657.4773	28.01	-4.16	114942.420	1.5	130147.870	.5
657.4816	26.02	-4.25	167207.300	4.0	182412.650	4.0
657.4840	73.00	-1.96	9920.875	0.0	25130.371	0.0
657.4973	22.00	-3.62	28638.832	2.0	43843.820	3.0
657.5024	26.00	-2.52	20874.482	3.0	36079.353	3.0
657.5165	22.00	-1.33	20795.599	5.0	36000.144	4.0
657.5264	28.00	-2.68	42585.296	4.0	57789.611	4.0
657.5470	16.01	-2.88	143623.030	1.5	158826.870	2.5
657.5504	25.02	-.75	216283.580	3.5	231487.340	4.5
657.5549	22.00	-1.21	33655.853	2.0	48859.510	1.0
657.5617	10.01	-1.74	313461.970	4.5	328665.470	4.5
657.5625	10.01	-1.61	313461.990	5.5	328665.470	4.5
657.5682	10.01	-1.26	313461.970	4.5	328665.320	5.5
657.5690	10.01	.20	313461.990	5.5	328665.320	5.5
657.5746	23.01	-6.53	20280.190	5.0	35483.390	6.0
657.5915	24.00	-4.69	31987.060	4.0	47189.870	4.0
657.5950	28.01	-3.13	100389.520	2.5	115592.250	1.5
657.5950	14.00	-3.22	45293.629	2.0	60496.358	2.0
657.5954	29.01	-4.10	110365.980	2.0	125568.700	1.0
657.6045	20.02	-1.95	328582.450	1.0	343784.960	1.0
657.6214	10.01	-3.28	302989.820	1.5	318191.940	2.5
657.6218	26.02	-3.91	183456.690	3.0	198658.800	3.0
657.6304	26.02	-1.45	186998.600	4.0	202200.510	3.0
657.6434	26.02	-4.98	167207.300	4.0	182408.910	3.0
657.6438	24.01	-4.26	74273.480	1.5	89475.080	2.5
657.6560	40.00	-3.25	0.000	0.0	15205.518	0.0
657.6637	24.00	-4.06	49635.160	6.0	64836.300	6.0
657.6733	23.00	-4.53	22121.170	4.5	37322.090	3.5
657.6830	76.00	-2.19	15324.929	0.0	30529.823	0.0
657.6850	39.00	-.63	19115.832	0.0	34320.679	0.0
657.6945	24.01	-2.72	73436.270	2.5	88636.700	1.5
657.6997	22.00	-4.77	31829.972	4.0	47030.280	3.0
657.7035	10.01	-2.10	302961.070	1.5	318161.290	2.5
657.7053	28.00	-1.95	42767.900	3.0	57968.080	3.0
657.7079	28.01	-4.10	121090.710	.5	136290.830	.5
657.7110	75.00	-.41	28714.077	0.0	43918.323	0.0
657.7442	28.01	-3.45	115565.980	2.5	130765.260	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
657.7542	28.01	-.38	105981.500	4.5	121180.550	5.5
657.7623	22.00	-3.20	28702.768	3.0	43901.630	4.0
657.7633	22.00	-4.13	33660.671	1.0	48859.510	1.0
657.7832	25.02	-3.44	216162.900	1.5	231361.280	2.5
657.7992	25.00	-2.44	48225.990	3.5	63424.000	3.5
657.8252	24.01	-4.38	74423.840	3.5	89621.250	3.5
657.8377	24.00	-4.39	33113.270	4.0	48310.390	5.0
657.8442	24.00	-2.38	35862.820	4.0	51059.790	4.0
657.8510	57.00	-1.61	0.000	0.0	15201.011	0.0
657.8771	6.00	-4.08	72610.720	2.0	87806.930	3.0
657.8850	9.00	-1.26	118427.823	1.5	133623.850	1.5
657.8923	23.00	-3.32	8412.940	.5	23608.800	1.5
657.9148	9.01	-4.83	254541.450	2.0	269736.790	1.0
657.9171	28.00	-3.36	35639.148	3.0	50834.435	2.0
657.9351	27.00	-1.10	36875.130	1.5	52070.000	2.5
657.9542	9.01	-4.34	254541.460	3.0	269735.890	2.0
657.9916	22.00	-4.18	27418.015	2.0	42611.580	1.0
657.9925	14.00	-4.45	47351.554	2.0	62545.100	1.0
657.9956	14.00	-3.38	45293.629	2.0	60487.103	1.0
658.0066	23.00	-4.07	9636.960	1.5	24830.180	1.5
658.0124	22.00	-3.09	26564.385	3.0	41757.470	3.0
658.0208	28.00	-1.76	35639.148	3.0	50832.039	3.0
658.0326	25.02	-3.61	177687.540	3.5	192880.160	3.5
658.0385	9.00	-2.28	102680.435	1.5	117872.916	1.5
658.0456	24.00	-3.77	49519.720	3.0	64712.040	3.0
658.0468	9.01	-4.13	254541.410	4.0	269733.700	3.0
658.0559	23.00	-3.66	23935.150	2.5	39127.230	1.5
658.0616	28.01	-2.61	106133.140	1.5	121325.090	2.5
658.0820	14.00	-2.12	49060.601	1.0	64252.080	2.0
658.0910	24.00	-4.44	8307.570	4.0	23498.840	4.0
658.0954	24.00	-4.44	33060.740	3.0	48251.910	3.0
658.0997	28.00	-2.72	27414.893	2.0	42605.964	3.0
658.1170	28.01	-3.74	118877.090	1.5	134067.760	1.5
658.1216	26.00	-5.89	11976.239	4.0	27166.804	4.0
658.1304	20.02	-3.20	371059.950	3.0	386250.310	3.0
658.1317	18.02	-1.69	210212.260	3.0	225402.590	3.0
658.1330	9.01	-1.91	254546.490	2.0	269736.790	1.0
658.1534	20.02	-3.04	371059.950	3.0	386249.780	4.0
658.1634	25.02	-2.62	124754.800	3.5	139944.400	3.5
658.1651	9.01	-1.74	254546.330	3.0	269735.890	2.0
658.1701	28.00	-2.34	42621.048	3.0	57810.494	4.0
658.1721	9.01	-2.65	254546.490	2.0	269735.890	2.0
658.1781	24.00	-3.31	35870.530	4.0	51059.790	4.0
658.2137	20.02	-3.66	371059.950	3.0	386248.390	4.0
658.2190	57.00	-.67	15970.189	0.0	31162.701	0.0
658.2397	28.01	.39	107082.210	2.5	122270.050	3.5
658.2423	28.01	-4.83	58705.950	1.5	73893.730	1.5
658.2514	9.01	-1.58	254546.130	4.0	269733.700	3.0
658.2527	23.02	-1.20	145978.270	2.5	161165.810	2.5
658.2535	10.01	-3.74	302475.610	.5	317663.130	1.5
658.2601	9.01	-2.65	254546.330	3.0	269733.700	3.0
658.2670	9.01	-4.19	254546.490	2.0	269733.700	3.0
658.3374	9.00	-2.07	118427.823	1.5	133613.410	.5
658.3511	10.01	-1.29	313480.200	3.5	328665.470	4.5
658.3528	10.01	.11	313480.240	4.5	328665.470	4.5
658.3540	29.00	-1.66	58154.072	0.0	73343.469	0.0
658.3593	10.01	-1.50	313480.240	4.5	328665.320	5.5
658.3610	24.01	-4.66	52321.300	4.5	67506.340	5.5
658.3639	22.00	-2.02	26803.417	2.0	41988.390	3.0
658.3676	9.02	-1.67	442370.280	.5	457555.170	1.5
658.3707	14.00	-1.64	48020.074	1.0	63204.890	2.0
658.3787	28.00	-2.94	43933.428	2.0	59118.060	2.0
658.3835	9.02	-1.54	444957.110	1.5	460141.630	2.5
658.3857	24.00	-3.66	49617.610	5.0	64802.080	5.0
658.3996	23.00	-4.95	21841.450	2.5	37025.600	3.5
658.4110	22.00	-3.80	33655.853	2.0	48839.740	3.0
658.4278	29.01	-4.00	131312.700	3.0	146496.200	3.0
658.4434	22.00	-3.00	28788.372	4.0	43971.513	5.0
658.4591	14.00	-3.35	49060.601	1.0	64243.380	2.0
658.4712	17.00	-2.11	84988.480	1.5	100170.980	1.5
658.4870	39.00	-3.17	483.945	0.0	15670.274	0.0
658.5130	73.00	-1.40	22664.763	0.0	37850.492	0.0
658.5193	24.00	-3.74	49620.690	4.0	64802.080	5.0
658.5210	62.01	-1.66	9356.272	0.0	24541.817	0.0
658.5375	25.01	-4.25	55759.270	3.0	70940.240	2.0
658.5549	28.01	-3.40	121146.980	2.5	136327.550	1.5
658.5649	25.02	-4.05	177185.180	.5	192365.520	1.5
658.5757	27.00	-5.57	14036.280	1.5	29216.370	2.5
658.5775	25.02	-.98	216307.290	4.5	231487.340	4.5
658.6256	28.01	-3.85	118874.110	3.5	134053.050	2.5
658.6269	6.00	-1.89	72610.720	2.0	87789.630	1.0
658.6304	25.00	-2.01	35725.850	2.5	50904.680	2.5
658.6308	28.00	-2.94	15734.018	1.0	30912.838	1.0
658.6495	24.00	-3.55	49573.030	4.0	64751.420	4.0
658.6510	55.00	-1.66	11732.308	0.0	26914.855	0.0
658.6586	20.02	-1.79	328606.780	2.0	343784.960	1.0
658.6734	16.01	-3.06	143488.610	.5	158666.450	1.5
658.6781	24.00	-3.45	33040.100	2.0	48217.830	2.0
658.7154	28.01	-4.28	115956.710	2.5	131133.580	2.5
658.7230	72.00	-1.55	16615.449	0.0	31796.337	0.0
658.7328	23.00	-3.05	21646.390	3.5	36822.860	3.5
658.7332	28.01	-2.56	100389.520	2.5	115565.980	2.5
658.7432	15.01	-2.23	103166.370	1.0	118342.600	1.0
658.7549	28.01	-3.14	118877.090	1.5	134053.050	2.5
658.7591	14.00	-3.25	49188.617	2.0	64364.480	2.0
658.7610	6.00	-.57	68856.330	1.0	84032.150	1.0
658.7714	28.01	-3.78	112719.750	3.5	127895.330	3.5
658.7797	24.00	-2.53	35884.400	5.0	51059.790	4.0
658.7879	27.02	-4.75	156291.400	2.5	171466.600	2.5
658.7879	27.02	-4.75	156291.400	2.5	171466.600	2.5
658.7923	24.00	-3.89	33113.270	4.0	48288.370	4.0
658.8179	14.00	-2.61	45321.848	3.0	60496.358	2.0
658.8540	90.00	-2.18	3790.903	0.0	18968.772	0.0
658.8910	62.00	-1.23	3064.986	0.0	18242.003	0.0
658.9026	26.02	-4.42	167207.300	4.0	182379.860	5.0
658.9211	9.00	-1.75	118405.267	.5	133577.400	1.5
658.9325	28.01	-.87	118563.390	3.5	133735.260	2.5
658.9408	28.01	-.95	121561.060	.5	136732.740	1.5
658.9447	28.01	.13	118563.390	3.5	133734.980	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
658.9625	28.01	-1.42	118442.810	1.5	133613.990	1.5
658.9716	23.00	-2.72	18805.050	.5	33976.020	1.5
658.9720	62.01	-1.14	10162.848	0.0	25338.000	0.0
658.9842	18.01	-4.53	189414.960	3.5	204585.640	2.5
659.0050	92.01	-2.83	5323.396	0.0	20497.788	0.0
659.0164	24.00	-2.84	33040.100	2.0	48210.040	1.0
659.0216	28.01	-3.97	118897.940	2.5	134067.760	1.5
659.0416	24.00	-1.15	33338.200	0.0	48507.560	1.0
659.0762	28.00	-1.54	42621.048	3.0	57789.611	4.0
659.0876	23.00	-4.39	9824.580	2.5	24992.880	3.5
659.0898	28.01	-4.65	115956.710	2.5	131124.960	3.5
659.0900	42.01	-1.31	26455.667	0.0	41628.102	0.0
659.0961	14.00	-3.39	47351.554	2.0	62519.660	2.0
659.1351	26.00	-1.79	37046.000	4.0	52213.207	3.0
659.1458	6.00	-3.21	71352.510	0.0	86519.470	1.0
659.1476	24.00	-4.77	49635.160	6.0	64802.080	5.0
659.1480	90.00	-3.07	0.000	0.0	15171.100	0.0
659.1600	64.00	-1.89	1693.808	0.0	16864.631	0.0
659.1641	23.02	-2.60	147169.340	3.5	162335.880	3.5
659.1680	6.00	-4.93	72610.720	2.0	87777.170	3.0
659.1828	28.01	-2.67	112719.750	3.5	127885.860	4.5
659.1871	27.00	-1.08	36875.130	1.5	52041.140	.5
659.1930	26.00	-4.36	35257.309	4.0	50423.185	4.0
659.1954	28.00	-3.40	43464.019	1.0	58629.840	2.0
659.1989	28.01	-4.00	121161.810	1.5	136327.550	1.5
659.1990	40.00	-1.28	11856.655	0.0	27026.581	0.0
659.2000	6.03	-.29	468765.000	0.0	483934.903	0.0
659.2137	24.00	-2.09	31009.000	3.0	46174.400	3.0
659.2263	28.01	-3.34	103663.500	1.5	118828.610	2.5
659.2289	28.01	-4.80	121227.800	2.5	136392.850	3.5
659.2371	26.00	-3.78	42532.729	3.0	57697.590	4.0
659.2506	28.00	-3.79	34163.294	2.0	49327.845	2.0
659.2506	28.01	-3.84	115565.980	2.5	130730.530	2.5
659.2520	75.00	-.35	28714.077	0.0	43882.783	0.0
659.2628	28.01	-1.87	121561.060	.5	136725.330	.5
659.2793	27.00	-6.29	14399.280	.5	29563.170	1.5
659.2913	22.00	-2.66	11639.804	3.0	26803.417	2.0
659.2920	26.00	-1.65	21999.132	4.0	37162.729	3.0
659.2958	29.01	-2.87	110084.290	1.0	125247.800	2.0
659.3074	14.00	-3.45	49188.617	2.0	64351.860	1.0
659.3079	14.00	-2.31	49188.617	2.0	64351.850	3.0
659.3180	25.00	-1.43	44978.980	1.5	60141.980	.5
659.3353	26.00	-4.54	43108.899	4.0	58271.500	5.0
659.3384	10.01	-4.69	306243.420	2.5	321405.950	3.5
659.3420	64.00	-.20	17663.997	0.0	32830.633	0.0
659.3454	6.00	-2.71	72610.720	2.0	87773.090	2.0
659.3460	57.00	-1.63	2984.328	0.0	18150.872	0.0
659.3584	28.01	-1.97	104503.220	2.5	119665.290	2.5
659.3615	28.02	-3.21	121802.800	3.0	136964.800	3.0
659.3624	15.00	-2.65	66360.120	1.5	81522.100	2.5
659.3740	44.00	-2.14	16938.079	0.0	32103.979	0.0
659.3758	23.00	-4.38	18805.050	.5	33966.720	.5
659.3790	63.00	-.49	15566.901	0.0	30732.686	0.0
659.3875	26.00	-2.73	19621.004	5.0	34782.406	5.0
659.3923	22.00	-2.74	26657.409	4.0	41818.700	4.0
659.4133	22.00	-4.51	31489.451	4.0	46650.260	3.0
659.4272	22.00	-4.23	25926.820	4.0	41087.310	3.0
659.4306	28.01	-.48	121800.340	1.5	136960.750	2.5
659.4574	22.00	-1.13	26892.926	3.0	42052.720	3.0
659.4645	18.00	-2.40	108722.668	0.0	123882.300	1.0
659.4654	22.00	-2.50	33680.130	3.0	48839.740	3.0
659.4685	24.00	-.82	35398.020	4.0	50557.560	4.0
659.4693	28.01	-4.60	121800.340	1.5	136959.860	2.5
659.4916	22.00	-.99	27025.652	4.0	42184.660	4.0
659.5033	26.02	-3.59	189784.520	2.0	204943.260	2.0
659.5146	25.01	-4.29	52653.270	4.0	67811.750	3.0
659.5198	16.01	-.93	115870.400	1.5	131028.760	1.5
659.5224	28.00	-2.83	42585.296	4.0	57743.596	3.0
659.5241	6.00	-3.01	71364.900	1.0	86523.160	0.0
659.5298	27.00	-1.79	36875.130	1.5	52033.260	1.5
659.5330	56.00	.15	9033.000	0.0	24195.244	0.0
659.5520	9.02	-.60	426989.570	3.5	442147.190	2.5
659.5685	28.01	-3.23	115785.060	1.5	130942.300	1.5
659.5751	24.00	-2.71	33060.740	3.0	48217.830	2.0
659.5831	7.00	-2.71	97770.150	.5	112927.055	1.5
659.5864	27.00	-.42	29948.760	2.5	45105.590	3.5
659.6107	18.00	-4.81	105462.804	3.0	120619.076	2.0
659.6112	18.01	-3.75	157673.320	2.5	172829.580	1.5
659.6129	24.01	-4.36	74318.860	2.5	89475.080	2.5
659.6247	20.02	-2.37	343784.960	1.0	358940.910	0.0
659.6335	9.00	-1.40	118427.823	1.5	133583.570	2.5
659.6542	22.00	-3.00	28896.062	5.0	44051.333	6.0
659.6612	28.01	-2.81	118897.940	2.5	134053.050	2.5
659.6620	22.00	-1.09	26803.417	2.0	41958.510	2.0
659.6654	26.00	-4.56	29356.780	2.0	44511.795	2.0
659.6686	28.01	-4.77	121800.340	1.5	136955.280	.5
659.6710	40.00	-1.98	11856.655	0.0	27015.727	0.0
659.6721	28.01	-4.96	101357.200	4.5	116512.060	3.5
659.6848	6.00	-3.90	71364.900	1.0	86519.470	1.0
659.6885	9.00	-1.80	118936.797	1.5	134091.280	1.5
659.7191	23.02	.65	147606.500	3.5	162760.280	4.5
659.7200	21.00	-4.54	18000.250	2.5	33154.010	2.5
659.7313	24.00	-1.21	35501.260	3.0	50654.760	2.0
659.7492	25.00	-1.89	48270.910	2.5	63424.000	3.5
659.7518	28.01	-1.30	104503.220	2.5	119656.250	3.5
659.7553	24.00	-.88	33671.550	3.0	48824.500	4.0
659.7555	26.00	-3.59	38678.015	2.0	53830.960	3.0
659.7592	26.01	-3.88	64286.440	3.5	79439.300	3.5
659.7792	23.00	-4.46	9636.960	1.5	24789.360	.5
659.7932	9.02	-2.40	442294.310	1.5	457446.390	.5
659.7988	28.01	-4.43	121240.900	3.5	136392.850	3.5
659.8045	25.00	-1.24	47753.990	2.5	62905.810	2.5
659.8080	28.01	-4.66	118563.390	3.5	133715.130	4.5
659.8149	28.01	-2.44	118294.170	3.5	133445.750	4.5
659.8219	28.01	-3.38	114836.630	3.5	129988.050	2.5
659.8350	26.00	-3.91	36686.159	4.0	51837.279	3.0
659.8489	28.01	-1.38	121050.660	2.5	136201.460	3.5
659.8533	24.01	-4.76	52298.120	3.5	67448.820	4.5
659.8595	28.00	-1.10	34163.294	2.0	49313.851	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
659.8672	18.00	-2.90	107131.755	1.0	122282.134	2.0
659.8679	18.00	-2.57	107289.747	2.0	122440.109	2.0
659.8840	40.00	-3.44	564.603	0.0	15718.782	0.0
659.8853	22.00	-4.16	26564.385	3.0	41714.350	2.0
659.8953	10.00	-.36	135888.717	1.0	151038.452	1.0
659.9021	9.00	-2.03	118427.823	1.5	133577.400	1.5
659.9133	22.00	-1.45	7255.369	2.0	22404.690	3.0
659.9499	7.01	-1.13	211336.160	1.0	226484.640	2.0
659.9652	20.02	-.40	327962.110	1.0	343110.240	0.0
659.9680	29.00	-1.95	56056.976	0.0	71209.226	0.0
659.9729	9.00	-1.48	118936.797	1.5	134084.750	2.5
659.9818	23.00	-3.51	21841.450	2.5	36989.200	2.5
660.0044	26.02	-3.33	189796.030	1.0	204943.260	2.0
660.0144	9.03	-1.05	519539.000	1.0	534686.000	1.0
660.0170	57.00	-1.78	2984.328	0.0	18135.453	0.0
660.0196	17.00	-1.91	85442.430	1.5	100589.312	2.5
660.0375	28.01	-3.82	115956.710	2.5	131103.180	2.5
660.0550	24.00	-2.29	31028.330	2.0	46174.400	3.0
660.0650	28.01	-3.24	103663.500	1.5	118809.340	1.5
660.0938	7.01	-1.28	205350.180	2.0	220495.360	2.0
660.1068	25.00	-4.31	51638.170	2.5	66783.050	3.5
660.1101	26.00	-2.96	40231.312	2.0	55376.117	1.0
660.1460	92.00	-2.02	7581.807	0.0	22729.971	0.0
660.1560	26.00	-4.38	35379.189	5.0	50522.940	6.0
660.1830	62.01	-1.34	11937.313	0.0	27084.628	0.0
660.1884	6.00	-4.39	72610.720	2.0	87753.730	2.0
660.1901	24.01	-4.53	59130.510	1.5	74273.480	1.5
660.2097	24.00	-3.56	35807.900	2.0	50950.420	3.0
660.2245	23.00	-2.70	21841.450	2.5	36983.630	1.5
660.2263	25.01	-2.94	67008.930	3.0	82151.070	2.0
660.2411	6.00	-2.63	71364.900	1.0	86506.700	2.0
660.2450	28.01	-3.36	52738.450	2.5	67880.160	2.5
660.2490	28.01	-3.75	121146.980	2.5	136288.600	2.5
660.2542	23.00	-2.73	19026.340	2.5	34167.840	2.5
660.2737	22.00	-4.27	28702.768	3.0	43843.820	3.0
660.2904	10.00	-1.76	150772.112	1.0	165912.782	1.0
660.3196	7.00	-2.17	97805.810	1.5	112945.809	2.5
660.3224	26.00	-3.83	29371.860	3.0	44511.795	2.0
660.3253	26.01	-3.80	83305.370	3.5	98445.240	4.5
660.3270	40.00	-1.23	12259.943	0.0	27403.955	0.0
660.3414	18.01	-3.45	196621.880	3.5	211761.380	4.5
660.3550	63.00	-.89	15566.901	0.0	30710.271	0.0
660.3664	7.00	-2.52	97770.150	.5	112909.076	1.5
660.3676	6.00	-3.07	71352.510	0.0	86491.410	1.0
660.3691	22.00	-1.50	33700.874	4.0	48839.740	3.0
660.3789	24.00	-2.88	33113.270	4.0	48251.910	3.0
660.3946	28.01	-3.70	115592.250	1.5	130730.530	2.5
660.3980	92.00	-1.71	7259.177	0.0	22401.561	0.0
660.4007	18.00	-4.62	105462.804	3.0	120600.944	2.0
660.4439	24.00	.02	42252.170	6.0	57389.320	6.0
660.4505	24.01	-2.92	74484.250	2.5	89621.250	3.5
660.4560	62.01	-.67	14437.696	0.0	29578.750	0.0
660.4566	17.00	-1.93	84132.262	2.5	99269.121	2.5
660.4588	21.01	-1.08	10944.510	2.0	26081.320	2.0
660.4608	26.00	-2.32	38995.717	1.0	54132.480	1.0
660.4618	18.01	-3.11	190106.230	1.5	205242.970	.5
660.4640	24.00	-2.53	35813.730	3.0	50950.420	3.0
660.4741	16.01	-1.20	115892.300	.5	131028.760	1.5
660.4848	9.00	-1.60	117872.916	1.5	133009.130	.5
660.4852	18.00	-4.19	105617.315	2.0	120753.520	3.0
660.5160	9.02	-.40	445006.130	2.5	460141.630	2.5
660.5190	75.00	-1.80	13711.778	0.0	28851.388	0.0
660.5199	25.01	-3.72	67008.930	3.0	82144.340	3.0
660.5269	20.02	-1.84	347758.220	2.0	362893.470	2.0
660.5317	9.02	-1.53	380250.520	2.5	395385.660	2.5
660.5420	90.01	-3.02	4032.876	0.0	19171.959	0.0
660.5474	24.00	-.87	33423.790	1.0	48558.570	2.0
660.5504	25.00	-1.91	35769.970	3.5	50904.680	2.5
660.5764	22.00	-3.20	22404.690	3.0	37538.804	2.0
660.5775	6.00	-3.30	71385.380	2.0	86519.470	1.0
660.5862	25.00	-3.78	34938.700	4.5	50072.590	4.5
660.5880	7.00	-4.33	97770.150	.5	112904.000	.5
660.5897	24.00	-5.00	49617.610	5.0	64751.420	4.0
660.5962	23.00	-1.48	9636.960	1.5	24770.620	.5
660.6072	28.01	-3.96	121194.140	2.5	136327.550	1.5
660.6162	7.00	-2.48	94793.460	1.5	109926.661	2.5
660.6425	23.00	-4.24	8476.200	1.5	23608.800	1.5
660.6456	27.00	-4.21	33945.900	2.5	49078.430	1.5
660.6997	25.00	-2.07	47774.520	3.5	62905.810	2.5
660.7015	22.01	-2.77	16625.250	1.5	31756.500	1.5
660.7045	28.01	-4.66	101144.630	3.5	116275.810	3.5
660.7150	74.00	-2.15	17018.737	0.0	32153.856	0.0
660.7229	24.00	-.73	42252.170	6.0	57382.930	5.0
660.7242	24.00	-4.69	49620.690	4.0	64751.420	4.0
660.7280	41.00	-1.72	13308.491	0.0	28443.312	0.0
660.7336	22.00	-2.55	26772.965	5.0	41903.480	5.0
660.7399	10.01	-2.99	303071.840	2.5	318202.210	1.5
660.7626	28.01	-2.85	118923.200	3.5	134053.050	2.5
660.7665	24.00	-4.19	27163.200	0.0	42292.960	1.0
660.7732	9.00	-1.94	118427.823	1.5	133557.430	2.5
660.7827	23.00	-1.66	10892.500	3.5	26021.890	3.5
660.7949	28.01	-1.77	123434.600	4.5	138563.710	3.5
660.7988	28.01	-4.55	121161.810	1.5	136290.830	.5
660.8034	26.00	-4.06	18378.187	2.0	33507.102	3.0
660.8260	57.00	-.78	9840.217	0.0	24972.794	0.0
660.8268	18.01	-3.62	196633.020	2.5	211761.400	3.5
660.8329	28.01	-3.43	118774.760	.5	133903.000	1.5
660.8644	24.01	-3.39	52321.300	4.5	67448.820	4.5
660.8675	17.00	-3.01	85917.937	.5	101045.386	1.5
660.8753	25.01	-3.26	67008.930	3.0	82136.200	4.0
660.8929	26.00	-2.71	33801.555	2.0	48928.423	2.0
660.8936	24.00	-1.03	35501.260	3.0	50628.110	3.0
660.8963	28.01	-4.48	121161.810	1.5	136288.600	2.5
660.8980	23.00	-4.06	22313.990	5.5	37440.740	4.5
660.9040	74.00	-2.36	15324.929	0.0	30455.720	0.0
660.9085	6.00	-3.46	71364.900	1.0	86491.410	1.0
660.9117	26.00	-2.41	20641.110	4.0	35767.546	4.0
660.9247	25.01	-3.38	55371.300	3.0	70497.440	4.0
660.9270	17.00	-1.73	82918.893	2.5	98044.980	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
660.9542	9.00	-1.90	117872.916	1.5	132998.380	1.5
660.9583	28.01	-3.64	115565.980	2.5	130691.350	1.5
660.9683	26.00	-5.50	7985.783	2.0	23110.925	3.0
660.9875	13.01	-1.79	124792.000	2.0	139916.700	1.0
660.9924	23.02	-4.49	145902.730	4.5	161027.320	4.5
661.0040	64.01	-1.71	13308.491	0.0	28436.992	0.0
661.0405	29.01	-3.98	129759.600	1.0	144883.090	2.0
661.0562	7.01	.46	174212.030	2.0	189335.160	3.0
661.0571	25.01	-3.85	87580.230	4.0	102703.340	4.0
661.0763	25.00	-3.37	44978.980	1.5	60101.650	2.5
661.0789	26.02	-3.27	189784.520	2.0	204907.130	1.0
661.0816	28.00	-1.12	42621.048	3.0	57743.596	3.0
661.1035	9.00	-1.47	117622.923	2.5	132744.970	1.5
661.1043	16.01	-.96	118146.500	1.5	133268.530	.5
661.1200	18.01	-1.78	189934.550	.5	205056.220	1.5
661.1200	42.01	-1.08	25568.434	0.0	40694.281	0.0
661.1280	71.01	-2.33	17180.052	0.0	32305.716	0.0
661.1285	17.00	-2.63	85917.937	.5	101039.413	.5
661.1305	25.00	-4.38	49591.510	1.5	64712.940	2.5
661.1323	25.02	-4.39	115774.000	3.5	130895.390	4.5
661.1353	6.00	-2.28	71385.380	2.0	86506.700	2.0
661.1386	7.00	-2.96	97805.810	1.5	112927.055	1.5
661.1449	13.01	-1.46	133679.300	3.0	148800.400	4.0
661.1449	13.01	-1.27	133679.300	3.0	148800.400	4.0
661.1515	25.00	-5.00	47452.160	.5	62573.110	1.5
661.1524	24.00	-3.52	33906.650	1.0	49027.580	2.0
661.1640	74.00	-.03	32746.953	0.0	47871.793	0.0
661.1712	25.02	-3.92	124823.900	4.5	139944.400	3.5
661.1856	23.01	-4.96	20363.220	6.0	35483.390	5.0
661.1950	73.00	-1.76	11130.738	0.0	26254.869	0.0
661.2066	26.01	-3.76	58631.650	4.5	73751.340	4.5
661.2158	24.00	-.78	33542.110	2.0	48661.590	3.0
661.2184	25.00	-3.80	51718.220	1.5	66837.640	2.5
661.2324	26.02	-4.21	167299.600	5.0	182418.700	4.0
661.2337	28.01	-4.86	115956.710	2.5	131075.780	1.5
661.2421	15.00	-4.05	67113.820	2.5	82232.700	2.5
661.2495	22.00	-2.77	27740.190	2.0	42858.900	3.0
661.2543	28.01	-3.44	115592.250	1.5	130710.850	.5
661.2890	17.00	-1.59	84648.100	2.5	99765.906	2.5
661.3234	23.00	-3.01	21646.390	3.5	36763.410	2.5
661.3352	28.01	-2.90	94729.250	2.5	109846.000	3.5
661.3356	24.00	-4.98	27176.220	1.0	42292.960	1.0
661.3356	24.01	-3.66	74504.510	4.5	89621.250	3.5
661.3514	28.01	-4.70	53037.930	2.5	68154.310	1.5
661.3566	28.01	-3.41	115120.000	2.5	130236.260	2.5
661.3628	22.00	-2.76	11776.806	4.0	26892.926	3.0
661.3750	39.01	-1.40	14034.408	0.0	29154.423	0.0
661.3829	26.00	-6.17	8154.713	1.0	23270.374	0.0
661.3860	28.01	-2.58	115785.060	1.5	130900.650	2.5
661.4000	25.01	-4.01	55115.800	2.0	70231.070	2.0
661.4012	18.01	-1.52	190106.230	1.5	205221.470	1.5
661.4123	28.00	-2.60	35639.148	3.0	50754.137	2.0
661.4150	41.00	-2.08	8307.725	0.0	23426.826	0.0
661.4349	18.01	-2.34	159706.460	.5	174820.930	.5
661.4379	26.00	-3.89	42859.756	2.0	57974.160	2.0
661.4560	76.00	-1.26	24116.599	0.0	39234.763	0.0
661.4644	28.00	-2.16	42653.723	2.0	57767.520	1.0
661.4790	22.00	-3.75	19421.576	3.0	34535.040	2.0
661.4880	22.00	-4.03	28788.372	4.0	43901.630	4.0
661.4919	28.01	-3.70	114874.880	2.5	129988.050	2.5
661.4971	26.02	-4.59	167299.600	5.0	182412.650	4.0
661.5221	20.02	-1.62	325467.670	2.0	340580.150	3.0
661.5430	76.00	.02	40086.787	0.0	55202.962	0.0
661.5553	23.00	-8.71	10892.500	3.5	26004.220	2.5
661.5715	10.01	.79	313457.540	2.5	328568.890	1.5
661.5755	28.01	-1.41	103663.500	1.5	118774.760	.5
661.5780	28.00	-4.48	42656.317	1.0	57767.520	1.0
661.5825	26.02	-4.47	189796.030	1.0	204907.130	1.0
661.6000	29.01	-3.29	131312.700	3.0	146423.400	4.0
661.6124	14.00	-2.85	48020.074	1.0	63130.490	1.0
661.6219	24.02	-3.75	138975.500	3.0	154085.700	3.0
661.6289	28.01	-3.98	121178.560	3.5	136288.600	2.5
661.6368	16.01	-2.72	140708.510	2.5	155818.370	2.5
661.6590	57.00	-1.51	3468.273	0.0	18581.798	0.0
661.6957	22.00	-2.47	26910.705	6.0	42019.220	6.0
661.6977	10.01	-2.09	303071.840	2.5	318180.310	2.5
661.7058	28.00	-1.94	34163.294	2.0	49271.578	3.0
661.7060	90.01	-2.34	12824.546	0.0	27936.998	0.0
661.7077	28.01	-4.84	119100.060	1.5	134208.300	2.5
661.7112	27.00	-.72	36092.440	2.5	51200.600	1.5
661.7170	10.01	-3.04	303071.840	2.5	318179.870	1.5
661.7252	6.00	-2.89	72610.720	2.0	87718.560	1.0
661.7260	38.00	-.02	18067.285	0.0	33179.280	0.0
661.7502	28.01	-3.58	97799.660	1.5	112906.930	1.5
661.7559	27.00	-.90	36092.440	2.5	51199.580	3.5
661.7776	14.00	-2.38	49188.617	2.0	64295.260	3.0
661.7861	25.00	-2.61	47466.660	1.5	62573.110	1.5
661.8045	6.00	-2.87	71385.380	2.0	86491.410	1.0
661.8200	44.00	-1.87	16131.504	0.0	31241.353	0.0
661.8457	14.00	-3.10	45276.188	1.0	60381.278	1.0
661.8483	25.01	-4.58	89950.400	3.0	105055.430	2.0
661.8540	24.00	-3.03	47586.060	5.0	62690.960	5.0
661.8575	7.00	-2.30	97805.810	1.5	112910.630	2.5
661.8900	25.02	-1.45	216283.580	3.5	231387.660	3.5
661.9018	18.01	-3.98	196621.880	3.5	211725.690	3.5
661.9128	23.00	-3.62	9544.540	.5	24648.100	1.5
661.9130	42.00	-1.72	10646.793	0.0	25754.519	0.0
661.9150	71.01	-.65	35892.596	0.0	51000.276	0.0
661.9248	14.00	-2.79	48020.074	1.0	63123.360	0.0
661.9256	7.00	-4.31	97805.810	1.5	112909.076	1.5
661.9355	25.02	-2.57	124754.800	3.5	139857.840	4.5
661.9373	29.01	-4.24	131312.700	3.0	146415.700	2.0
661.9474	24.00	-4.97	48824.500	4.0	63927.270	5.0
661.9563	14.00	-2.14	48102.323	2.0	63204.890	2.0
661.9570	26.02	-4.85	105906.230	2.0	121008.780	3.0
661.9623	28.01	-4.55	98122.630	.5	113225.060	.5
661.9623	28.01	-2.91	116732.510	2.5	131834.940	2.5
661.9950	90.01	-3.01	4113.534	0.0	19219.388	0.0
661.9987	11.02	-2.95	399179.400	2.5	414281.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
661.9991	18.01	-4.27	157233.930	3.5	172335.520	2.5
662.0162	24.00	-3.50	49650.220	3.0	64751.420	4.0
662.0474	12.01	-1.85	93799.700	2.5	108900.190	1.5
662.0520	92.00	-2.16	564.603	0.0	15669.157	0.0
662.0544	12.01	-1.70	93799.700	3.5	108900.030	2.5
662.0544	12.01	-3.00	93799.700	2.5	108900.030	2.5
662.0560	40.00	-.97	18631.887	0.0	33736.349	0.0
662.0574	24.00	-2.46	31009.000	3.0	46109.260	2.0
662.0661	22.00	-3.69	26657.409	4.0	41757.470	3.0
662.0732	15.00	-2.75	64239.500	.5	79339.400	1.5
662.0749	25.01	-3.33	87580.230	4.0	102680.090	5.0
662.0842	25.00	-4.79	51638.170	2.5	66737.820	3.5
662.0973	18.01	-1.79	179931.770	1.5	195031.120	2.5
662.1043	25.02	-3.47	177477.230	2.5	192576.420	2.5
662.1131	28.01	-2.45	121800.340	1.5	136899.330	1.5
662.1142	28.00	-2.08	29013.228	2.0	44112.192	1.0
662.1194	14.00	-2.40	47351.554	2.0	62450.400	1.0
662.1223	15.00	-1.77	65450.020	1.5	80548.800	2.5
662.1300	73.00	-2.57	5968.656	0.0	21071.430	0.0
662.1433	11.02	-4.63	399182.700	1.5	414281.000	2.5
662.1481	7.00	-4.68	97805.810	1.5	112904.000	.5
662.1486	28.01	-4.30	121294.670	4.5	136392.850	3.5
662.1610	29.00	-1.00	56056.976	0.0	71159.043	0.0
662.1680	74.00	-1.89	19115.832	0.0	34217.740	0.0
662.1789	6.00	-2.56	72610.720	2.0	87708.210	2.0
662.2030	6.01	-2.88	168978.340	2.5	184075.280	2.5
662.2030	6.01	-1.58	168978.340	3.5	184075.280	2.5
662.2320	28.01	-4.41	121192.320	3.5	136288.600	2.5
662.2333	6.01	-1.73	168978.340	2.5	184074.590	1.5
662.2363	25.02	-3.70	177269.340	1.5	192365.520	1.5
662.2390	10.01	-4.95	301801.090	3.5	316897.210	3.5
662.2490	39.00	-1.12	18389.915	0.0	33489.976	0.0
662.2530	7.00	-1.53	94830.860	2.5	109926.661	2.5
662.2583	24.01	-4.08	52298.120	3.5	67393.800	3.5
662.2675	23.01	-4.41	22273.540	1.0	37369.010	2.0
662.2678	22.00	-1.39	26892.926	3.0	41988.390	3.0
662.2994	22.00	-4.20	17995.750	0.0	33090.492	1.0
662.3048	26.01	-4.38	45289.840	1.5	60384.460	.5
662.3118	28.01	-4.23	121194.140	2.5	136288.600	2.5
662.3119	22.00	-2.99	33114.412	2.0	48208.870	3.0
662.3136	18.01	-3.75	170530.310	3.5	185624.730	3.5
662.3373	27.00	-1.88	32430.590	5.5	47524.470	4.5
662.3469	28.01	-4.99	118809.340	1.5	133903.000	1.5
662.3487	23.00	-1.79	15770.720	4.5	30864.340	5.5
662.3667	28.01	.24	107082.210	2.5	122175.420	2.5
662.3763	27.00	-3.49	16778.160	2.5	31871.150	3.5
662.3782	26.00	-3.19	32873.623	4.0	47966.571	3.0
662.3820	18.00	-2.01	108722.668	0.0	123815.530	1.0
662.3847	28.01	-1.96	106022.790	.5	121115.590	1.5
662.3890	24.00	-2.81	33934.880	3.0	49027.580	2.0
662.3910	75.00	-.47	28794.735	0.0	43891.558	0.0
662.3924	28.00	-3.01	40484.282	2.0	55576.905	3.0
662.3943	18.01	-4.12	196633.020	2.5	211725.600	2.5
662.4005	25.00	-4.54	49591.510	1.5	64683.950	1.5
662.4043	28.00	-2.29	42585.296	4.0	57677.649	5.0
662.4167	29.01	-.21	121981.680	2.0	137073.750	2.0
662.4221	14.00	-4.75	48264.292	3.0	63356.240	2.0
662.4228	24.00	-3.22	33935.650	2.0	49027.580	2.0
662.4570	42.00	-1.13	26616.982	0.0	41712.301	0.0
662.4617	22.00	-2.01	24694.895	4.0	39785.940	4.0
662.4627	14.02	-.76	214532.170	1.0	229623.190	1.0
662.4685	23.00	-3.92	9636.960	1.5	24727.850	2.5
662.4730	77.00	.06	40086.787	0.0	55181.742	0.0
662.4803	20.02	-4.18	348028.130	3.0	363118.750	3.0
662.4821	23.00	-1.46	9824.580	2.5	24915.160	1.5
662.5005	28.01	-2.58	100475.820	3.5	115565.980	2.5
662.5026	26.00	-5.44	8154.713	1.0	23244.826	1.0
662.5083	26.00	-4.19	42911.897	5.0	58001.880	6.0
662.5131	28.00	-3.37	42653.723	2.0	57743.596	3.0
662.5150	24.00	-1.24	35572.940	2.0	50662.770	1.0
662.5176	9.02	-4.96	466253.240	1.5	481343.010	.5
662.5212	23.00	-1.54	19078.150	3.5	34167.840	2.5
662.5290	92.00	-1.86	5726.684	0.0	20820.363	0.0
662.5317	10.01	-2.50	303071.840	2.5	318161.290	2.5
662.5436	24.01	-4.52	52298.120	3.5	67387.300	2.5
662.5449	10.01	-3.20	303071.840	2.5	318160.990	3.5
662.5466	28.01	-2.17	106022.790	.5	121111.900	.5
662.5822	13.01	-2.86	134181.200	3.0	149269.500	2.0
662.5822	13.01	-4.29	134181.200	3.0	149269.500	3.0
662.5822	13.01	-3.10	134181.200	4.0	149269.500	3.0
662.5822	13.01	-2.24	134181.200	4.0	149269.500	3.0
662.5822	13.01	-4.16	134181.200	4.0	149269.500	4.0
662.5822	13.01	-4.30	134181.200	4.0	149269.500	4.0
662.5822	13.01	-2.63	134181.200	5.0	149269.500	4.0
662.5910	25.00	-1.90	45013.550	2.5	60101.650	2.5
662.6015	24.00	-2.78	47586.060	5.0	62673.920	6.0
662.6108	14.00	-3.76	45293.629	2.0	60381.278	1.0
662.6129	24.00	-2.44	35862.820	4.0	50950.420	3.0
662.6368	26.00	-4.35	35611.608	3.0	50698.666	2.0
662.6687	28.01	-2.95	56371.410	3.5	71457.740	3.5
662.6815	24.00	-4.08	42275.200	4.0	57361.240	3.0
662.6977	7.00	-2.27	94770.850	.5	109856.520	1.5
662.6977	9.02	-4.69	466275.500	2.5	481361.170	1.5
662.6980	41.00	-2.71	5242.739	0.0	20332.569	0.0
662.7136	10.01	-1.68	303071.840	2.5	318157.150	3.5
662.7245	24.00	-4.21	23512.000	1.0	38597.060	1.0
662.7280	26.01	-1.88	58666.360	3.5	73751.340	4.5
662.7298	24.00	-3.16	47586.060	5.0	62671.000	4.0
662.7527	26.00	-2.21	36686.159	4.0	51770.577	3.0
662.7654	8.01	-1.50	233430.100	.5	248514.230	1.5
662.7764	28.01	-4.10	101740.270	3.5	116824.150	2.5
662.7800	45.00	-1.98	15889.531	0.0	30977.494	0.0
662.7812	24.00	-1.72	33423.790	1.0	48507.560	1.0
662.7917	28.01	-3.44	101754.800	2.5	116838.330	1.5
662.8265	23.00	-4.54	27470.880	3.5	42553.620	4.5
662.8430	64.00	-.58	16696.107	0.0	31782.636	0.0
662.8480	24.00	-2.49	35807.900	2.0	50890.150	2.0
662.8511	25.02	-.85	216670.580	4.5	231752.760	5.5
662.8598	15.00	-4.37	67113.820	2.5	82195.800	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
662.8669	24.00	-1.43	35572.940	2.0	50654.760	2.0
662.8850	22.00	-1.20	27025.652	4.0	42107.060	4.0
662.9060	24.00	-2.73	31028.330	2.0	46109.260	2.0
662.9306	25.02	-2.30	216307.290	4.5	231387.660	3.5
662.9355	26.02	-4.16	167299.600	5.0	182379.860	5.0
662.9517	24.00	-2.77	35870.530	4.0	50950.420	3.0
662.9636	26.02	-4.66	105929.160	3.0	121008.780	3.0
662.9670	29.00	-1.52	58154.072	0.0	73237.779	0.0
662.9794	7.01	-.31	187091.370	2.0	202170.630	1.0
662.9983	9.02	-2.11	442636.270	3.5	457715.100	2.5
663.0005	24.00	-3.58	8307.570	4.0	23386.350	3.0
663.0115	9.02	-2.48	380307.130	1.5	395385.660	2.5
663.0140	60.00	-1.43	0.000	0.0	15082.638	0.0
663.0160	45.00	-1.83	14679.669	0.0	29762.261	0.0
663.0278	25.02	-2.44	124823.900	4.5	139902.060	5.5
663.0454	28.01	-4.89	118877.090	1.5	133954.850	.5
663.0480	25.02	-2.86	216283.580	3.5	231361.280	2.5
663.0610	62.01	-1.80	12179.286	0.0	27260.855	0.0
663.0652	18.01	-3.05	189437.690	.5	204515.000	.5
663.0662	14.00	-4.41	48020.074	1.0	63097.360	1.0
663.0762	15.00	-2.91	66813.040	1.5	81890.100	2.5
663.0806	23.02	-1.82	146846.320	1.5	161923.280	2.5
663.0834	12.00	-2.62	43503.333	0.0	58580.230	1.0
663.1043	24.00	-2.59	35813.730	3.0	50890.150	2.0
663.1049	14.00	-1.69	48264.292	3.0	63340.700	3.0
663.1180	9.02	-3.18	442370.280	.5	457446.390	.5
663.1469	22.00	-4.16	28896.062	5.0	43971.513	5.0
663.1483	29.01	-3.82	120684.550	3.0	135759.970	2.0
663.1606	28.01	-3.39	53634.620	1.5	68709.760	.5
663.1655	28.01	-3.13	100490.950	1.5	115565.980	2.5
663.1685	28.01	-4.18	121317.890	3.5	136392.850	3.5
663.1936	28.01	-4.83	118828.610	2.5	133903.000	1.5
663.2042	23.00	-4.17	9824.580	2.5	24898.730	2.5
663.2085	18.00	-2.56	106087.305	1.0	121161.356	1.0
663.2280	62.01	-1.75	8630.355	0.0	23708.126	0.0
663.2318	10.01	-4.21	313744.530	3.5	328818.050	2.5
663.2332	10.01	-4.12	313744.580	4.5	328818.070	3.5
663.2399	14.00	-4.02	48020.074	1.0	63093.410	2.0
663.2433	27.00	-1.62	18389.570	1.5	33462.830	2.5
663.2543	26.02	-4.87	136464.900	1.0	151537.910	0.0
663.2768	24.01	-4.30	52321.300	4.5	67393.800	3.5
663.3291	23.00	-2.87	11100.650	4.5	26171.960	4.5
663.3382	26.00	-1.83	38995.717	1.0	54066.821	2.0
663.3723	26.00	-.98	36766.950	3.0	51837.279	3.0
663.3824	30.02	-2.86	218540.300	2.0	233610.400	2.0
663.3908	24.00	-4.54	27223.050	2.0	42292.960	1.0
663.4074	26.00	-1.87	38678.015	2.0	53747.547	3.0
663.4318	22.00	-2.00	33655.853	2.0	48724.830	1.0
663.4360	64.01	-1.35	10485.478	0.0	25558.522	0.0
663.4388	25.01	-4.39	72648.800	4.0	87717.620	3.0
663.4534	22.00	-2.41	33655.853	2.0	48724.340	2.0
663.4549	22.00	-1.84	26803.417	2.0	41871.870	2.0
663.4586	16.01	-3.95	140750.000	1.5	155818.370	2.5
663.4639	24.00	-4.78	31987.060	4.0	47055.310	5.0
663.4656	28.01	-1.69	122120.370	5.5	137188.580	4.5
663.4696	17.00	-4.99	84132.262	2.5	99200.382	3.5
663.4806	7.00	-3.04	97770.150	.5	112838.020	1.5
663.4815	24.00	-4.41	31987.060	4.0	47054.910	4.0
663.5066	15.00	-2.94	65450.020	1.5	80517.300	2.5
663.5092	23.01	-2.89	32040.760	2.0	47107.980	1.0
663.5101	27.00	-1.75	28470.510	1.5	43537.710	1.5
663.5118	28.00	-1.05	35639.148	3.0	50706.310	4.0
663.5224	29.01	-3.60	136336.880	1.0	151403.800	2.0
663.5238	20.02	-1.93	348051.860	4.0	363118.750	3.0
663.5405	25.01	-4.78	49427.320	4.0	64493.830	4.0
663.5656	22.01	-3.63	24961.340	1.5	40027.280	1.5
663.5688	14.00	-1.63	47284.061	1.0	62349.930	2.0
663.5813	22.00	-2.25	26892.926	3.0	41958.510	2.0
663.5902	28.01	-2.36	119315.440	2.5	134380.820	3.5
663.6109	21.00	-4.99	24656.800	1.5	39721.710	1.5
663.6167	28.01	-1.99	118379.110	2.5	133443.890	2.5
663.6193	18.01	-3.01	179931.770	1.5	194996.490	1.5
663.6317	24.00	-1.14	33423.790	1.0	48488.230	0.0
663.6490	39.00	.29	28794.735	0.0	43862.941	0.0
663.6492	6.00	-3.45	71352.510	0.0	86416.550	1.0
663.6530	57.01	-3.06	7420.492	0.0	22488.607	0.0
663.6594	6.00	-3.81	71385.380	2.0	86449.190	3.0
663.6656	22.00	-3.11	33660.671	1.0	48724.340	2.0
663.6747	14.00	-4.41	49188.617	2.0	64252.080	2.0
663.6766	25.00	-2.51	48168.010	4.5	63231.430	4.5
663.6924	7.00	-1.46	94793.460	1.5	109856.520	1.5
663.6936	26.00	-2.58	33412.706	3.0	48475.740	3.0
663.6951	9.03	.62	662843.000	3.0	677906.000	4.0
663.7048	28.01	-2.43	107082.210	2.5	122144.990	2.5
663.7160	42.00	-1.48	26213.694	0.0	41280.379	0.0
663.7250	75.00	-2.11	19357.805	0.0	34424.286	0.0
663.7348	23.00	-3.44	21963.500	3.5	37025.600	3.5
663.7405	24.01	-2.44	54444.190	3.5	69506.160	3.5
663.7440	20.02	-1.78	346732.190	1.0	361794.080	1.0
663.7471	24.00	-4.50	49650.220	3.0	64712.040	3.0
663.7617	28.00	-3.15	43464.019	1.0	58525.507	1.0
663.7647	24.00	-4.65	31987.060	4.0	47048.480	3.0
663.7766	27.00	-3.99	40345.950	2.5	55407.100	1.5
663.7779	23.01	-2.76	32040.760	2.0	47101.880	2.0
663.7863	25.02	-1.13	216691.830	5.5	231752.760	5.5
663.8018	22.00	-3.00	31184.021	1.0	46244.600	2.0
663.8039	24.00	-3.07	47630.430	6.0	62690.960	5.0
663.8079	17.00	-1.93	85442.430	1.5	100502.871	1.5
663.8092	24.00	-2.71	31048.850	1.0	46109.260	2.0
663.8225	18.01	-.51	143107.600	2.5	158167.710	1.5
663.8238	26.01	-4.85	63465.190	1.5	78525.270	2.5
663.8388	27.00	-2.31	32464.730	4.5	47524.470	4.5
663.8586	28.01	-3.04	55299.650	4.5	70358.940	4.5
663.8590	24.00	-3.32	49652.760	2.0	64712.040	3.0
663.8673	28.00	-3.24	43933.428	2.0	58992.520	2.0
663.8917	22.00	-2.77	27665.570	1.0	42724.110	2.0
663.9097	24.00	-2.50	31364.330	3.0	46422.460	4.0
663.9122	14.00	-3.12	49028.294	0.0	64086.370	1.0
663.9291	24.00	-4.34	42292.960	1.0	57350.650	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
663.9328	26.00	-4.35	39625.784	4.0	54683.390	4.0
663.9691	26.00	-2.01	37157.546	2.0	52214.330	1.0
663.9731	28.00	-4.95	13521.352	2.0	28578.046	3.0
663.9736	18.01	-.70	143371.350	1.5	158428.030	.5
663.9879	26.00	-2.03	32873.623	4.0	47929.981	4.0
663.9904	24.00	-.84	35501.260	3.0	50557.560	4.0
664.0009	10.00	-2.41	150772.112	1.0	165828.175	2.0
664.0080	64.00	-1.84	1693.808	0.0	16753.868	0.0
664.0094	25.00	-4.53	51787.920	.5	66843.790	1.5
664.0213	15.00	-2.70	66834.500	1.5	81890.100	2.5
664.0266	24.01	-4.34	52298.120	3.5	67353.600	4.5
664.0403	24.00	-1.07	35572.940	2.0	50628.110	3.0
664.0582	14.00	-1.84	49188.617	2.0	64243.380	2.0
664.0747	23.00	-3.28	21646.390	3.5	36700.780	2.5
664.0798	10.00	-2.70	150858.508	2.0	165912.782	1.0
664.0884	24.01	-2.94	54444.190	3.5	69498.270	4.5
664.0933	22.00	-1.76	31190.631	2.0	46244.600	2.0
664.0936	16.01	-1.73	114804.110	2.5	129858.070	1.5
664.0994	8.01	-.86	188888.380	.5	203942.210	.5
664.1232	29.01	-.02	121981.680	2.0	137034.970	3.0
664.1417	22.00	-3.39	18061.540	1.0	33114.412	2.0
664.1479	15.00	-3.17	65373.470	.5	80426.200	1.5
664.1956	6.00	-3.46	71364.900	1.0	86416.550	1.0
664.2732	23.00	-3.06	19078.150	3.5	34128.040	3.5
664.2760	64.00	-1.03	12421.258	0.0	27475.242	0.0
664.2790	57.01	-1.08	20245.038	0.0	35298.954	0.0
664.2821	24.00	-4.03	47621.310	3.0	62671.000	4.0
664.3037	24.00	-1.63	31009.000	3.0	46058.200	4.0
664.3077	17.00	-3.78	84485.309	1.5	99534.419	.5
664.3125	29.01	-2.55	135733.600	3.0	150782.600	2.0
664.3214	28.01	-3.96	118874.110	3.5	133922.910	4.5
664.3231	24.00	-2.66	31028.330	2.0	46077.090	1.0
664.3311	25.01	-4.17	55696.500	4.0	70745.080	3.0
664.3540	38.00	-.59	18067.285	0.0	33119.501	0.0
664.3540	70.00	-.67	27504.214	0.0	42556.430	0.0
664.3554	24.01	-3.53	52321.300	4.5	67369.330	5.5
664.3598	25.00	-2.35	47466.660	1.5	62514.590	2.5
664.3629	28.00	-2.79	13521.352	2.0	28569.210	2.0
664.3717	18.01	-.15	142186.270	4.5	157233.930	3.5
664.3788	23.00	-1.91	15724.220	3.5	30771.720	4.5
664.3980	64.00	.11	17905.969	0.0	32957.188	0.0
664.4030	27.00	-2.41	29735.180	3.5	44782.130	4.5
664.4092	18.01	-2.71	190196.160	.5	205242.970	.5
664.4317	24.01	-4.00	52298.120	3.5	67344.420	2.5
664.4410	57.00	-2.07	1048.548	0.0	16098.793	0.0
664.4567	22.00	-3.58	26772.965	5.0	41818.700	4.0
664.4600	72.01	-1.80	14276.381	0.0	29326.196	0.0
664.4613	28.01	-3.99	114942.420	1.5	129988.050	2.5
664.4948	7.00	-.88	94881.790	3.5	109926.661	2.5
664.5110	63.01	-.59	11050.080	0.0	26098.740	0.0
664.5112	24.00	-2.40	31377.960	4.0	46422.460	4.0
664.5160	57.00	-.41	16131.504	0.0	31180.051	0.0
664.5218	24.00	-2.12	35618.510	1.0	50662.770	1.0
664.5240	22.00	-1.50	33680.130	3.0	48724.340	2.0
664.5249	27.00	-2.87	33674.380	2.5	48718.570	2.5
664.5426	22.00	-4.19	33980.639	2.0	49024.430	3.0
664.5559	24.00	-2.73	47630.430	6.0	62673.920	6.0
664.5590	16.01	-3.20	143623.030	1.5	158666.450	1.5
664.5877	28.01	-2.53	106007.890	2.5	121050.660	2.5
664.5912	24.00	-1.48	35618.510	1.0	50661.200	0.0
664.5954	28.00	-2.54	42767.900	3.0	57810.494	4.0
664.6093	15.00	-3.44	66360.120	1.5	81402.400	2.5
664.6151	24.00	-4.47	27176.220	1.0	42218.370	0.0
664.6490	7.00	-1.66	94770.850	.5	109812.233	.5
664.6561	28.01	-2.66	100078.780	1.5	115120.000	2.5
664.6659	22.00	-3.32	31489.451	4.0	46530.450	4.0
664.6729	25.00	-1.07	45060.810	3.5	60101.650	2.5
664.6813	24.00	-3.32	47621.310	3.0	62661.960	3.0
664.6850	64.00	-1.18	11211.395	0.0	26256.115	0.0
664.6939	26.00	-4.33	21038.987	2.0	36079.353	3.0
664.7060	72.01	-1.12	22987.393	0.0	38031.638	0.0
664.7112	18.00	-2.95	107289.747	2.0	122329.720	3.0
664.7180	23.01	-3.17	34228.790	3.0	49268.610	4.0
664.7423	23.00	-4.85	19026.340	2.5	34065.610	2.5
664.7595	16.01	-4.58	112937.330	.5	127976.210	1.5
664.7713	22.00	-.93	31205.985	3.0	46244.600	2.0
664.7785	28.00	-2.16	35639.148	3.0	50677.599	3.0
664.7799	23.02	-2.37	146549.620	4.5	161588.040	3.5
664.7799	29.01	-.70	136336.880	1.0	151375.300	2.0
664.7900	15.01	-2.03	86598.300	0.0	101636.490	1.0
664.8055	26.01	-8.79	27620.390	2.5	42658.230	3.5
664.8085	26.00	-5.74	8154.713	1.0	23192.486	2.0
664.8242	7.00	-3.69	97770.150	.5	112807.567	.5
664.8666	29.01	-.64	123556.640	2.0	138593.100	1.0
664.8692	17.01	-1.11	132162.000	3.0	147198.400	4.0
664.8758	24.00	-1.15	35618.510	1.0	50654.760	2.0
664.8834	24.01	-4.53	52298.120	3.5	67334.200	3.5
664.9431	28.01	-2.46	106283.160	2.5	121317.890	3.5
664.9453	28.01	-1.44	106007.890	2.5	121042.570	1.5
664.9496	9.00	-1.45	118936.797	1.5	133971.380	1.5
664.9811	24.01	-4.37	54444.190	3.5	69478.060	2.5
664.9848	17.00	-2.60	84648.100	2.5	99681.887	1.5
664.9864	27.00	-4.79	39649.160	3.5	54682.910	4.5
665.0103	28.01	-.10	107142.210	1.5	122175.420	2.5
665.0362	22.00	-2.85	11531.760	2.0	26564.385	3.0
665.0380	42.00	-.46	25326.461	0.0	40363.196	0.0
665.0400	9.00	-2.01	102840.376	.5	117872.916	1.5
665.0452	24.00	-3.37	31048.850	1.0	46081.270	0.0
665.0505	24.01	-4.66	52321.300	4.5	67353.600	4.5
665.0546	7.00	-3.29	97805.810	1.5	112838.020	1.5
665.0576	25.01	-4.73	49517.580	5.0	64549.720	6.0
665.0610	39.00	-.55	19277.147	0.0	34313.362	0.0
665.0665	28.01	-4.36	118897.940	2.5	133929.880	3.5
665.0810	57.00	-1.90	0.000	0.0	15035.763	0.0
665.1005	6.00	-3.52	71385.380	2.0	86416.550	1.0
665.1133	7.00	-2.79	97770.150	.5	112801.031	1.5
665.1253	10.01	-3.61	302750.810	3.5	317781.420	2.5
665.1399	23.00	-4.03	8578.520	2.5	23608.800	1.5
665.1559	28.01	-4.82	118892.990	5.5	133922.910	4.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
665.1610	62.01	-1.68	11695.340	0.0	26729.294	0.0
665.1829	28.01	-2.70	100078.780	1.5	115108.090	2.5
665.1939	24.00	-2.37	31393.400	5.0	46422.460	4.0
665.2017	9.00	-2.32	118936.797	1.5	133965.680	2.5
665.2092	10.00	-2.25	135888.717	1.0	150917.431	0.0
665.2169	26.00	-3.96	36940.600	2.0	51969.140	3.0
665.2214	28.01	-4.72	101247.370	2.5	116275.810	3.5
665.2302	24.00	-2.69	31048.850	1.0	46077.090	1.0
665.2302	27.00	-2.32	33173.360	3.5	48201.600	3.5
665.2334	14.00	-2.51	48102.323	2.0	63130.490	1.0
665.2376	17.00	-2.50	85917.937	.5	100946.010	.5
665.2390	75.00	-2.33	13711.778	0.0	28743.969	0.0
665.2470	18.01	-4.65	174409.830	1.5	189437.690	.5
665.2807	28.01	-4.42	115108.090	2.5	130135.190	1.5
665.2821	22.00	-2.37	27025.652	4.0	42052.720	3.0
665.3112	28.01	-4.23	115209.850	3.5	130236.260	2.5
665.3289	23.02	-2.37	146139.800	2.5	161165.810	2.5
665.3334	28.01	-3.53	118877.090	1.5	133903.000	1.5
665.3377	17.00	-2.47	83364.927	.5	98390.740	.5
665.3396	14.00	-3.01	49060.601	1.0	64086.370	1.0
665.3427	23.00	-2.60	21963.500	3.5	36989.200	2.5
665.3445	7.00	-1.17	94830.860	2.5	109856.520	1.5
665.3550	64.00	-.30	18389.915	0.0	33419.486	0.0
665.3600	18.01	-1.57	190196.160	.5	205221.470	1.5
665.3608	24.00	-3.27	47621.310	3.0	62646.600	2.0
665.3737	17.01	-1.56	132173.400	4.0	147198.400	4.0
665.3828	26.00	-2.28	33507.102	3.0	48531.896	3.0
665.3967	6.00	-2.85	71364.900	1.0	86389.380	2.0
665.4125	22.00	-1.87	26892.926	3.0	41917.050	4.0
665.4140	25.00	-4.02	35041.370	3.5	50065.460	3.5
665.4180	30.02	-1.89	219360.000	4.0	234384.000	3.0
665.4283	26.00	-4.87	35856.386	2.0	50880.152	1.0
665.4351	22.00	-2.69	18061.540	1.0	33085.153	0.0
665.4427	14.02	-1.37	225526.330	3.0	240549.770	2.0
665.4609	6.00	-2.61	72610.720	2.0	87633.750	2.0
665.4667	28.01	-4.90	121178.560	3.5	136201.460	3.5
665.4767	17.00	-3.06	84688.637	.5	99711.309	.5
665.5030	24.00	-1.42	35640.690	0.0	50662.770	1.0
665.5194	28.00	-2.46	42767.900	3.0	57789.611	4.0
665.5336	23.00	-5.98	11100.650	4.5	26122.040	3.5
665.5517	6.00	-1.37	68856.330	1.0	83877.310	1.0
665.5642	29.01	-4.71	125568.700	1.0	140589.400	0.0
665.5644	26.00	-3.62	43499.485	4.0	58520.180	4.0
665.5824	17.00	-.92	84648.100	2.5	99668.388	3.5
665.5983	26.01	-6.66	27314.930	3.5	42334.860	2.5
665.6052	22.00	-2.95	26803.417	2.0	41823.190	3.0
665.6164	24.01	-2.96	73406.680	.5	88426.200	.5
665.6190	62.01	-1.84	9356.272	0.0	24379.882	0.0
665.6466	24.01	-4.48	74318.860	2.5	89337.700	1.5
665.6496	7.00	-1.66	94793.460	1.5	109812.233	.5
665.6497	28.01	-2.39	104646.520	3.5	119665.290	2.5
665.6551	7.00	-2.84	97805.810	1.5	112824.459	2.5
665.6810	92.00	-2.66	564.603	0.0	15586.813	0.0
665.6838	13.01	-2.35	134181.200	4.0	149199.200	3.0
665.6838	13.01	-3.07	134181.200	4.0	149199.200	3.0
665.6838	13.01	-4.17	134181.200	3.0	149199.200	3.0
665.6843	28.01	-4.66	121862.570	3.5	136880.560	4.5
665.6915	18.00	-3.60	107496.463	1.0	122514.290	1.0
665.7011	9.02	-2.60	380250.520	2.5	395268.130	1.5
665.7013	22.00	-2.76	11639.804	3.0	26657.409	4.0
665.7184	24.01	-3.83	53566.220	3.5	68583.440	2.5
665.7206	10.01	-4.89	303824.680	2.5	318841.850	3.5
665.7313	22.00	-2.87	33090.492	1.0	48107.420	2.0
665.7495	18.01	-4.49	159393.310	1.5	174409.830	1.5
665.7521	24.00	-1.01	33542.110	2.0	48558.570	2.0
665.7605	23.00	-1.95	15078.250	.5	30094.520	1.5
665.7663	24.01	-4.11	69478.060	2.5	84494.200	2.5
665.8084	28.01	-3.48	115120.000	2.5	130135.190	1.5
665.8496	24.01	-3.05	73411.940	1.5	88426.200	.5
665.8620	23.00	-3.57	9824.580	2.5	24838.560	3.5
665.8680	28.00	-2.72	42954.234	2.0	57968.080	3.0
665.8680	90.01	-2.97	9356.272	0.0	24374.264	0.0
665.8683	26.01	-4.84	64425.460	2.5	79439.300	3.5
665.8993	24.00	-2.74	31355.210	2.0	46368.350	3.0
665.9099	24.01	-4.61	52321.300	4.5	67334.200	3.5
665.9135	24.01	-3.71	50667.330	3.5	65680.150	4.5
665.9312	6.00	-2.77	71385.380	2.0	86397.800	3.0
665.9400	72.00	-2.06	14599.011	0.0	29615.379	0.0
665.9680	42.01	-1.71	20003.065	0.0	35018.801	0.0
665.9791	10.01	-2.15	302816.980	1.5	317828.320	.5
665.9880	23.00	-3.74	9636.960	1.5	24648.100	1.5
665.9885	23.01	-4.87	32040.760	2.0	47051.890	3.0
666.0036	25.00	-4.08	44978.980	1.5	59989.770	1.5
666.0297	26.00	-4.81	42991.680	5.0	58001.880	6.0
666.0382	6.00	-3.53	71352.510	0.0	86362.520	1.0
666.0430	28.02	-3.42	121802.800	3.0	136812.700	2.0
666.0506	28.01	-.93	104646.520	3.5	119656.250	3.5
666.0573	28.00	-4.56	15609.861	2.0	30619.440	2.0
666.0626	9.00	-1.21	119081.820	.5	134091.280	1.5
666.0668	18.00	-2.18	106087.305	1.0	121096.670	0.0
666.0697	29.01	-1.67	135733.600	3.0	150742.900	3.0
666.0768	28.01	-4.97	121192.320	3.5	136201.460	3.5
666.0840	41.00	-1.16	9436.930	0.0	24450.051	0.0
666.1021	28.01	-3.72	118914.340	4.5	133922.910	4.5
666.1078	24.00	-.22	33816.060	4.0	48824.500	4.0
666.1127	10.01	-3.98	279324.890	1.5	294333.220	.5
666.1321	28.00	-1.56	34163.294	2.0	49171.187	1.0
666.1400	57.00	-1.20	4032.876	0.0	19044.735	0.0
666.1655	27.00	-3.81	31699.690	4.5	46706.830	3.5
666.1674	17.01	-.08	132191.300	5.0	147198.400	4.0
666.1709	28.01	-3.83	121115.590	1.5	136122.610	2.5
666.1709	20.02	-1.69	344149.810	2.0	359156.830	1.0
666.1810	76.00	-2.67	13308.491	0.0	28319.426	0.0
666.1847	7.00	-2.87	97805.810	1.5	112812.518	2.5
666.1860	28.01	-3.95	118923.200	3.5	133929.880	3.5
666.2270	90.00	-1.64	7420.492	0.0	22430.391	0.0
666.2339	23.00	-4.57	9824.580	2.5	24830.180	1.5
666.2366	23.00	-2.07	15688.800	2.5	30694.340	3.5
666.2410	25.00	-1.83	48225.990	3.5	63231.430	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
666.2579	28.01	-4.29	118897.940	2.5	133903.000	1.5
666.2596	20.02	-4.32	370901.880	2.0	385906.900	2.0
666.2618	22.00	-2.92	19322.988	2.0	34327.960	1.0
666.2730	14.02	-2.16	242410.880	2.0	257415.600	2.0
666.2730	14.02	-1.43	242410.880	2.0	257415.600	1.0
666.2730	14.02	-3.71	242410.880	2.0	257415.600	3.0
666.2738	6.00	-2.29	71364.900	1.0	86369.600	2.0
666.2854	23.01	-5.52	25191.080	2.0	40195.520	3.0
666.2885	28.01	-3.94	107082.210	2.5	122086.580	3.5
666.2903	14.02	-1.26	242411.270	3.0	257415.600	2.0
666.2903	14.02	-2.16	242411.270	3.0	257415.600	3.0
666.2907	10.01	-4.81	303824.230	3.5	318828.550	2.5
666.2996	24.01	-4.58	74504.510	4.5	89508.630	5.5
666.3041	24.00	-2.68	31364.330	3.0	46368.350	3.0
666.3089	25.00	-4.87	38120.180	4.5	53124.090	3.5
666.3094	14.02	-1.10	242411.700	4.0	257415.600	3.0
666.3107	10.01	-3.45	303824.680	2.5	318828.550	2.5
666.3107	10.01	-3.16	303824.680	2.5	318828.550	3.5
666.3121	28.01	-4.62	121050.660	2.5	136054.500	1.5
666.3140	44.00	.03	27826.844	0.0	42834.783	0.0
666.3183	23.00	-1.89	19026.340	2.5	34030.040	1.5
666.3215	26.00	-1.43	36766.950	3.0	51770.577	3.0
666.3444	26.00	-2.70	19552.474	1.0	34555.586	0.0
666.3489	20.01	-1.19	74484.920	.5	89487.930	1.5
666.3560	24.00	-4.61	31055.350	5.0	46058.200	4.0
666.3591	28.01	-3.37	107142.210	1.5	122144.990	2.5
666.3614	28.01	-1.31	125003.440	5.5	140006.170	4.5
666.3658	27.00	-2.22	30102.960	2.5	45105.590	3.5
666.3676	15.01	-4.62	103340.010	2.0	118342.600	1.0
666.3680	28.01	-2.03	107082.210	2.5	122084.790	1.5
666.3690	17.00	-2.97	85735.091	1.5	100737.650	.5
666.3705	17.00	-2.08	85244.330	.5	100246.855	1.5
666.3733	28.01	-1.00	121325.090	2.5	136327.550	1.5
666.3738	24.00	-3.13	47688.510	4.0	62690.960	5.0
666.3938	24.00	-.06	42387.320	7.0	57389.320	6.0
666.3951	29.01	-1.74	108014.660	3.0	123016.630	3.0
666.4044	18.00	-4.27	105617.315	2.0	120619.076	2.0
666.4046	7.00	-4.04	97805.810	1.5	112807.567	.5
666.4347	28.01	-4.62	118442.810	1.5	133443.890	2.5
666.4382	23.00	-4.45	15770.720	4.5	30771.720	4.5
666.4387	25.01	-4.89	49517.580	5.0	64518.570	5.0
666.4400	39.00	.38	29198.022	0.0	44203.124	0.0
666.4427	12.03	-4.90	582589.000	1.5	597589.900	.5
666.4817	17.00	-4.41	84988.460	1.5	99988.501	2.5
666.5102	25.00	-2.99	47753.990	2.5	62753.370	2.5
666.5190	14.00	-1.56	49188.617	2.0	64187.800	3.0
666.5355	24.00	-4.14	31987.060	4.0	46985.870	5.0
666.5433	26.00	-5.36	12560.933	3.0	27559.568	2.0
666.5516	14.00	-3.69	49399.670	1.0	64398.120	2.0
666.5697	28.01	-3.04	107082.210	2.5	122080.250	2.5
666.5884	6.00	-4.95	71364.900	1.0	86362.520	1.0
666.6124	24.00	-3.07	31352.420	1.0	46349.500	2.0
666.6179	22.00	-4.87	6742.757	4.0	21739.713	5.0
666.6333	28.01	-4.40	116838.330	1.5	131834.940	2.5
666.6359	18.01	-1.00	144709.910	.5	159706.460	.5
666.6373	10.01	-2.31	302831.800	.5	317828.320	.5
666.6426	24.01	-4.97	74273.480	1.5	89269.880	.5
666.6533	22.00	-3.00	11776.806	4.0	26772.965	5.0
666.6708	28.00	-1.18	34163.294	2.0	49159.060	2.0
666.6893	10.00	-2.13	150917.431	0.0	165912.782	1.0
666.6937	8.01	-1.19	233430.100	.5	248425.350	.5
666.6950	7.00	-3.34	97805.810	1.5	112801.031	1.5
666.7018	21.00	-4.83	24866.180	1.5	39861.250	2.5
666.7032	14.00	-2.26	48102.323	2.0	63097.360	1.0
666.7043	9.00	-1.35	118936.797	1.5	133931.810	2.5
666.7115	18.01	-2.30	189934.550	.5	204929.400	.5
666.7174	26.00	-4.87	19552.474	1.0	34547.192	2.0
666.7220	62.01	-1.95	10082.190	0.0	25080.945	0.0
666.7364	24.00	-3.00	31355.210	2.0	46349.500	2.0
666.7423	26.00	-4.71	19788.248	4.0	34782.406	5.0
666.7569	14.03	.49	276503.670	.5	291497.500	1.5
666.7649	9.02	-1.40	430012.480	1.5	445006.130	2.5
666.7716	26.00	-2.37	36975.640	3.0	51969.140	3.0
666.7827	17.00	-2.27	84688.637	.5	99681.887	1.5
666.7850	70.00	-.05	24923.174	0.0	39920.512	0.0
666.7876	20.02	-4.51	348028.130	3.0	363021.270	2.0
666.7935	22.00	-3.34	33114.412	2.0	48107.420	2.0
666.8036	23.00	-2.83	19026.340	2.5	34019.120	1.5
666.8038	22.00	-3.75	26910.705	6.0	41903.480	5.0
666.8211	18.00	-3.74	107289.747	2.0	122282.134	2.0
666.8224	22.00	-1.53	27025.652	4.0	42018.010	5.0
666.8668	24.00	-2.80	31009.000	3.0	46000.360	3.0
666.8789	14.00	-2.78	48102.323	2.0	63093.410	2.0
666.8903	24.01	-3.71	74484.250	2.5	89475.080	2.5
666.9099	24.00	-2.66	31377.960	4.0	46368.350	3.0
666.9135	26.02	-4.86	186303.440	3.0	201293.750	2.0
666.9255	24.00	-.56	33671.550	3.0	48661.590	3.0
666.9265	14.00	-3.54	49028.294	0.0	64018.310	1.0
666.9354	7.00	-2.72	97770.150	.5	112759.966	1.5
666.9650	60.01	-2.18	8307.725	0.0	23301.016	0.0
667.0145	24.01	-2.47	69506.160	3.5	84494.200	2.5
667.0274	25.01	-4.02	87717.620	3.0	102705.370	3.0
667.0370	60.00	-1.50	2339.068	0.0	17330.740	0.0
667.0403	23.00	-2.67	19078.150	3.5	34065.610	2.5
667.0812	29.01	-4.17	116326.160	3.0	131312.700	3.0
667.1106	23.01	-6.98	22273.540	1.0	37259.420	1.0
667.1177	25.01	-3.32	87717.620	3.0	102703.340	4.0
667.1400	57.01	-3.01	3226.301	0.0	18215.659	0.0
667.1410	26.00	-1.94	38175.332	3.0	53160.530	3.0
667.1422	24.00	-2.62	31364.330	3.0	46349.500	2.0
667.1510	62.00	-.88	3952.218	0.0	18941.328	0.0
667.1600	28.00	-3.06	43464.019	1.0	58448.790	0.0
667.1725	23.02	.50	147400.620	4.5	162385.110	3.5
667.1845	6.00	-1.66	71385.380	2.0	86369.600	2.0
667.1979	22.00	-3.86	27740.190	2.0	42724.110	2.0
667.2032	25.02	-2.19	216403.860	2.5	231387.660	3.5
667.2109	18.00	-3.30	105617.315	2.0	120600.944	2.0
667.2219	28.01	-4.36	118939.530	5.5	133922.910	4.5
667.2230	29.00	-.91	58154.072	0.0	73141.565	0.0
667.2322	22.01	-7.18	15257.530	4.5	30240.680	5.5
667.2391	18.00	-3.46	107496.463	1.0	122479.459	1.0
667.2526	9.00	-2.56	118936.797	1.5	133919.490	1.5
667.2569	28.00	-2.85	44206.185	3.0	59188.780	3.0
667.2616	24.00	-2.83	47688.510	4.0	62671.000	4.0
667.2790	8.02	-1.88	365723.900	1.0	380706.000	2.0
667.2816	28.01	-2.41	118631.950	.5	133613.990	1.5
667.2838	23.01	-1.98	34228.790	3.0	49210.780	3.0
667.2945	27.00	-5.35	13795.520	2.5	28777.270	3.5
667.2946	6.00	-3.76	68856.330	1.0	83838.080	2.0
667.3150	24.00	-2.95	47692.630	7.0	62673.920	6.0
667.3680	15.00	-1.73	64239.500	.5	79219.600	.5
667.3730	73.00	-2.00	9678.902	0.0	24663.026	0.0
667.3815	26.00	-3.30	38175.332	3.0	53155.130	4.0
667.3929	18.01	-2.77	189437.690	.5	204417.230	1.5
667.4050	28.01	-4.86	116145.690	3.5	131124.960	3.5
667.4117	6.00	-2.25	71352.510	0.0	86331.630	1.0
667.4195	22.00	-3.16	26892.926	3.0	41871.870	2.0
667.4237	25.00	-3.92	47774.520	3.5	62753.370	2.5
667.4366	23.00	-1.77	19189.280	1.5	34167.840	2.5
667.4500	25.02	-4.12	177687.540	3.5	192665.800	4.5
667.4625	15.00	-3.56	66544.120	2.5	81522.100	2.5
667.4745	28.01	-4.84	101754.800	2.5	116732.510	2.5
667.4950	23.02	-3.17	145902.730	4.5	160879.980	4.5
667.4999	6.00	-4.17	71385.380	2.0	86362.520	1.0
667.5247	7.00	-1.98	95493.660	1.5	110470.244	2.5
667.5270	56.00	-.15	9215.000	0.0	24195.667	0.0
667.5409	25.00	-1.89	45013.550	2.5	59989.770	1.5
667.5427	15.00	-2.81	65450.020	1.5	80426.200	1.5
667.5530	73.00	-1.57	11130.738	0.0	26110.822	0.0
667.5540	58.01	-1.40	12340.601	0.0	27320.663	0.0
667.5583	20.02	-1.92	371274.480	2.0	386250.310	3.0
667.5643	28.00	-4.49	42767.900	3.0	57743.596	3.0
667.6013	28.00	-2.32	43654.974	3.0	58629.840	2.0
667.6142	28.00	-4.10	43654.974	3.0	58629.550	3.0
667.6243	26.00	-3.14	40404.492	1.0	55378.842	2.0
667.6534	22.00	-3.07	33085.153	0.0	48058.850	1.0
667.6581	9.00	-2.21	118936.797	1.5	133910.390	.5
667.6644	24.00	-2.84	47688.510	4.0	62661.960	3.0
667.6839	26.00	-3.03	36766.950	3.0	51739.964	2.0
667.6845	28.01	-2.40	100592.980	3.5	115565.980	2.5
667.6903	23.01	-3.13	34228.790	3.0	49201.660	2.0
667.7033	9.00	-3.40	117622.923	2.5	132595.500	2.5
667.7140	71.00	-.94	22100.161	0.0	37076.633	0.0
667.7216	22.00	-.85	20062.980	1.0	35035.147	2.0
667.7242	28.01	-4.54	116824.150	2.5	131796.260	2.5
667.7277	24.00	-1.84	31028.330	2.0	46000.360	3.0
667.7277	18.00	-3.55	93750.639	1.0	108722.668	0.0
667.7330	41.00	-1.37	8952.985	0.0	23929.031	0.0
667.7344	26.01	-1.87	58631.650	4.5	73603.530	5.5
667.7401	7.00	-2.90	95475.280	.5	110447.032	1.5
667.7458	26.00	-3.24	40404.492	1.0	55376.117	1.0
667.7612	25.01	-4.12	55371.300	3.0	70342.580	3.0
667.7665	22.00	-2.33	27887.740	3.0	42858.900	3.0
667.7735	26.00	-2.73	38995.717	1.0	53966.720	2.0
667.7804	23.00	-2.30	15664.750	1.5	30635.600	2.5
667.7857	28.01	-.10	107142.210	1.5	122112.940	.5
667.7961	26.00	-3.92	20641.110	4.0	35611.608	3.0
667.7994	26.00	-1.51	21715.735	5.0	36686.159	4.0
667.8010	40.01	-1.07	19357.805	0.0	34332.326	0.0
667.8103	24.01	-4.97	69348.360	1.5	84318.540	1.5
667.8120	8.01	-.89	233544.090	1.5	248514.230	1.5
667.8150	2.00	.33	171135.000	0.0	186109.207	0.0
667.8170	70.00	-.80	27504.214	0.0	42478.376	0.0
667.8276	10.00	-.40	135888.717	1.0	150858.508	2.0
667.8331	10.00	-1.53	150858.508	2.0	165828.175	2.0
667.8366	28.01	-4.19	116145.690	3.5	131115.280	4.5
667.8392	28.01	-2.50	122812.970	3.5	137782.500	4.5
667.8410	74.00	-1.85	18873.860	0.0	33847.484	0.0
667.8433	17.00	-2.04	83130.900	1.5	98100.340	.5
667.8495	8.01	-4.78	250251.000	1.5	265220.300	2.5
667.8540	29.01	-2.06	108335.430	2.0	123304.630	1.0
667.8567	17.00	-2.15	85735.091	1.5	100704.230	1.5
667.8624	22.00	-2.15	18145.400	2.0	33114.412	2.0
667.8656	14.01	-1.04	112394.820	1.5	127363.760	2.5
667.8710	90.00	-2.59	7178.519	0.0	22151.470	0.0
667.8727	14.01	-.88	112394.980	2.5	127363.760	3.5
667.8727	14.01	-2.18	112394.980	2.5	127363.760	2.5
667.8803	27.00	-2.72	15774.040	1.5	30742.650	.5
667.8874	28.01	-2.30	103663.500	1.5	118631.950	.5
667.8890	42.00	-1.54	25729.749	0.0	40702.297	0.0
667.8915	22.00	-3.20	33090.492	1.0	48058.850	1.0
667.9210	62.01	-1.54	8630.355	0.0	23602.186	0.0
667.9352	20.01	-.94	74521.750	1.5	89489.130	2.5
667.9566	14.01	-1.31	103556.290	3.5	118523.190	2.5
667.9606	7.00	-2.51	97770.150	.5	112736.961	1.5
667.9620	26.01	-3.38	50142.930	2.5	65109.710	3.5
667.9624	14.01	-2.61	103556.420	2.5	118523.190	2.5
667.9642	6.00	-2.28	71364.900	1.0	86331.630	1.0
667.9656	14.01	-1.46	103556.420	2.5	118523.120	1.5
667.9888	20.01	-1.89	74521.750	1.5	89487.930	1.5
667.9901	28.01	-2.34	121800.340	1.5	136766.490	2.5
668.0048	28.01	-3.51	116167.760	1.5	131133.580	2.5
668.0123	28.00	-1.22	42621.048	3.0	57586.700	2.0
668.0195	22.01	-1.74	24961.340	1.5	39926.830	2.5
668.0213	24.00	-.90	33542.110	2.0	48507.560	1.0
668.0227	23.00	-2.32	21646.390	3.5	36611.810	2.5
668.0378	28.01	-3.68	107082.210	2.5	122047.290	3.5
668.0383	27.00	-3.45	28470.510	1.5	43435.580	.5
668.0498	10.01	-3.16	302816.980	1.5	317781.790	1.5
668.0498	14.00	-3.59	49399.670	1.0	64364.480	2.0
668.0633	26.01	-4.74	63273.030	2.5	78237.540	3.5
668.0664	10.01	-4.75	302816.980	1.5	317781.420	2.5
668.0726	10.01	-2.21	303237.910	1.5	318202.210	1.5
668.0824	20.02	-4.18	370903.120	3.0	385867.200	3.0
668.0949	15.00	-2.05	65585.000	2.5	80548.800	2.5
668.0949	6.00	-2.56	68856.330	1.0	83820.130	1.0
668.0994	17.01	-1.42	132162.000	3.0	147125.700	3.0
668.0999	10.01	-3.68	303237.910	1.5	318201.600	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
668.1048	28.01	-1.81	122812.970	3.5	137776.550	3.5
668.1079	28.01	-.61	121325.090	2.5	136288.600	2.5
668.1230	64.01	-1.42	11372.710	0.0	26340.014	0.0
668.1424	22.00	-2.96	27025.652	4.0	41988.390	3.0
668.1503	22.00	-2.62	11531.760	2.0	26494.322	2.0
668.1530	62.01	-1.81	11292.053	0.0	26258.685	0.0
668.1793	22.00	-2.24	20795.599	5.0	35757.510	4.0
668.2200	9.02	-1.79	380307.130	1.5	395268.130	1.5
668.2242	26.00	-4.42	32873.623	4.0	47834.529	5.0
668.2343	25.01	-3.17	55696.500	4.0	70657.180	5.0
668.2362	26.00	-4.08	32873.623	4.0	47834.260	3.0
668.2406	27.00	-2.32	36092.440	2.5	51052.980	3.5
668.2580	24.01	-4.94	39824.520	4.5	54784.670	3.5
668.3004	15.02	-.92	200442.800	2.5	215402.000	2.5
668.3004	15.02	.38	200442.800	2.5	215402.000	3.5
668.3004	15.02	.22	200442.800	1.5	215402.000	2.5
668.3210	2.01	-.48	421353.130	0.0	436316.000	0.0
668.3280	75.00	-1.55	22261.476	0.0	37224.189	0.0
668.3380	92.00	-1.84	3710.246	0.0	18672.735	0.0
668.3657	28.01	-3.89	106283.160	2.5	121240.900	3.5
668.3671	14.00	-3.79	49060.601	1.0	64018.310	1.0
668.3778	15.00	-2.11	66343.330	.5	81300.800	1.5
668.3786	24.00	-2.70	31009.000	3.0	45966.450	2.0
668.3800	25.02	-2.96	216403.860	2.5	231361.280	2.5
668.3970	6.00	-2.15	71364.900	1.0	86321.940	0.0
668.4300	18.01	-.36	142717.020	3.5	157673.320	2.5
668.4586	27.00	-4.66	40621.620	1.5	55577.280	1.5
668.4613	30.02	-2.99	220668.300	2.0	235623.900	3.0
668.4721	20.00	-1.72	39333.382	0.0	54288.740	1.0
668.4783	18.00	-3.54	107131.755	1.0	122086.974	2.0
668.4792	27.00	-2.92	28470.510	1.5	43425.710	2.5
668.4948	9.02	-.92	426431.030	.5	441385.880	1.5
668.5098	7.00	-2.37	97805.810	1.5	112760.325	2.5
668.5118	23.00	-3.60	22121.170	4.5	37075.640	4.5
668.5210	63.00	-.63	14437.696	0.0	29396.089	0.0
668.5233	26.00	-3.46	42859.756	2.0	57813.970	3.0
668.5258	7.00	-4.15	97805.810	1.5	112759.966	1.5
668.5395	9.01	-1.50	254541.350	5.0	269495.200	4.0
668.5422	9.01	-1.67	254541.410	4.0	269495.200	3.0
668.5422	9.01	-2.37	254541.410	4.0	269495.200	4.0
668.5440	9.01	-2.24	254541.450	2.0	269495.200	2.0
668.5440	9.01	-3.24	254541.450	2.0	269495.200	3.0
668.5444	9.01	-1.86	254541.460	3.0	269495.200	2.0
668.5444	9.01	-2.22	254541.460	3.0	269495.200	3.0
668.5444	9.01	-3.54	254541.460	3.0	269495.200	4.0
668.5480	24.00	-3.32	33060.740	3.0	48014.400	4.0
668.5480	9.01	-3.24	254541.540	1.0	269495.200	2.0
668.5588	20.00	-1.84	39335.322	1.0	54288.740	1.0
668.5609	7.00	-1.78	95493.660	1.5	110447.032	1.5
668.5891	6.00	-3.14	71364.900	1.0	86317.640	2.0
668.6080	77.00	.53	39764.157	0.0	54720.604	0.0
668.6088	17.01	-.64	132173.400	4.0	147125.700	3.0
668.6137	14.00	-3.76	49399.670	1.0	64351.860	1.0
668.6464	15.00	-3.37	66813.040	1.5	81764.500	1.5
668.6634	25.02	-4.71	115780.230	2.5	130731.310	3.5
668.6755	23.01	-6.97	20242.320	4.0	35193.130	5.0
668.6802	22.00	-2.36	26564.385	3.0	41515.090	4.0
668.6866	25.00	-4.42	27248.000	1.5	42198.560	.5
668.7122	10.01	-3.03	302831.800	.5	317781.790	1.5
668.7197	27.00	-3.75	36092.440	2.5	51042.260	2.5
668.7260	23.00	-2.52	19026.340	2.5	33976.020	1.5
668.7394	25.00	-5.00	34938.700	4.5	49888.080	3.5
668.7469	26.00	-2.54	33412.706	3.0	48361.920	4.0
668.7533	9.01	-4.21	254546.130	4.0	269495.200	3.0
668.7533	9.01	-4.91	254546.130	4.0	269495.200	4.0
668.7580	39.00	-2.49	0.000	0.0	14953.092	0.0
668.7623	9.01	-4.46	254546.330	3.0	269495.200	2.0
668.7623	9.01	-4.82	254546.330	3.0	269495.200	3.0
668.7717	20.00	-1.64	39340.080	2.0	54288.740	1.0
668.7870	42.00	-1.34	26294.352	0.0	41246.796	0.0
668.8180	40.00	-2.51	4355.506	0.0	19307.257	0.0
668.8508	28.01	-4.81	103025.580	2.5	117972.470	3.5
668.8549	23.00	-4.38	15688.800	2.5	30635.600	2.5
668.8794	6.00	-2.09	71385.380	2.0	86331.630	1.0
668.8839	21.00	-4.49	25724.720	3.5	40670.870	4.5
668.8869	22.00	-3.08	24694.895	4.0	39640.980	3.0
668.8902	22.00	-3.20	27665.570	1.0	42611.580	1.0
668.8951	24.00	-3.34	31352.420	1.0	46298.320	1.0
668.8974	22.00	-2.62	34078.580	3.0	49024.430	3.0
668.9144	28.01	-3.62	115785.060	1.5	130730.530	2.5
668.9157	28.01	-3.13	114836.630	3.5	129782.070	3.5
668.9313	22.00	-1.96	18145.400	2.0	33090.492	1.0
668.9515	28.01	-2.20	106283.160	2.5	121227.800	2.5
668.9520	9.02	-.24	430012.480	1.5	444957.110	1.5
668.9606	22.00	-4.46	33114.412	2.0	48058.850	1.0
668.9960	18.00	-2.68	107496.463	1.0	122440.109	2.0
669.0000	44.00	.21	26133.037	0.0	41080.720	0.0
669.0106	23.00	-2.69	15078.250	.5	30021.570	.5
669.0200	24.00	-3.08	31355.210	2.0	46298.320	1.0
669.0357	23.02	-2.10	146223.050	3.5	161165.810	2.5
669.0438	28.01	-1.32	107142.210	1.5	122084.790	1.5
669.0469	10.01	-2.70	302839.280	2.5	317781.790	1.5
669.0470	42.00	-1.79	18728.600	0.0	33175.233	0.0
669.0479	9.00	-1.29	102680.435	1.5	117622.923	2.5
669.0518	10.01	-2.21	303237.910	1.5	318180.310	2.5
669.0635	10.01	-3.82	302839.280	2.5	317781.420	2.5
669.0648	28.01	-4.37	116191.470	2.5	131133.580	2.5
669.0684	25.00	-4.62	27201.540	2.5	42143.570	1.5
669.0715	10.01	-2.70	303237.910	1.5	318179.870	1.5
669.0770	28.00	-3.18	29320.782	3.0	44262.619	2.0
669.0796	6.00	-3.43	71385.380	2.0	86327.160	3.0
669.0805	24.01	-4.07	39684.000	3.5	54625.760	2.5
669.0809	28.01	-.98	121385.800	1.5	136327.550	1.5
669.0881	24.00	-4.24	27597.220	3.0	42538.810	3.0
669.1015	29.01	-4.57	116371.410	4.0	131312.700	3.0
669.1080	42.01	-1.36	27181.584	0.0	42126.854	0.0
669.1096	28.01	-3.63	55417.830	3.5	70358.940	4.5
669.1190	28.01	-1.07	122812.970	3.5	137753.870	4.5
669.1210	92.00	-1.66	10566.135	0.0	25511.115	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
669.1289	15.00	-2.42	66360.120	1.5	81300.800	1.5
669.1326	14.00	-2.97	48264.292	3.0	63204.890	2.0
669.1638	23.02	-.49	146983.380	2.5	161923.280	2.5
669.1750	28.01	-3.87	100845.410	.5	115785.060	1.5
669.1830	39.00	.26	29681.967	0.0	44625.562	0.0
669.2059	24.00	-4.34	49812.460	3.0	64751.420	4.0
669.2433	7.00	-1.28	95532.120	2.5	110470.244	2.5
669.2435	24.00	-3.60	31028.330	2.0	45966.450	2.0
669.2637	29.01	-1.37	121981.680	2.0	136919.350	3.0
669.2710	90.01	-3.32	4032.876	0.0	18974.507	0.0
669.2860	64.00	-1.24	10808.108	0.0	25749.404	0.0
669.2861	27.00	-3.29	27497.060	2.5	42434.230	2.5
669.2870	57.00	-1.64	2984.328	0.0	17925.601	0.0
669.2906	27.00	-4.14	40345.950	2.5	55283.020	2.5
669.3120	74.00	-2.28	14840.984	0.0	29781.699	0.0
669.3221	26.00	-4.98	35767.546	4.0	50703.912	5.0
669.3340	17.01	-2.82	147053.700	2.0	161989.800	1.0
669.3533	18.02	-2.70	210212.260	3.0	225147.930	2.0
669.3550	62.01	-.93	13469.806	0.0	28409.561	0.0
669.3645	28.01	-4.13	116167.760	1.5	131103.180	2.5
669.3649	23.00	-2.38	21603.170	4.5	36538.580	4.5
669.3654	28.01	-4.55	121050.660	2.5	135986.060	3.5
669.3717	23.02	-1.35	147400.620	4.5	162335.880	3.5
669.3840	56.00	-.02	9596.000	0.0	24535.108	0.0
669.3960	63.00	.12	15970.189	0.0	30909.029	0.0
669.3963	6.00	-4.55	68856.330	1.0	83791.040	2.0
669.4088	22.00	-2.83	33980.639	2.0	48915.070	2.0
669.4089	24.00	-3.69	33040.100	2.0	47974.530	3.0
669.4510	28.01	-4.47	116191.470	2.5	131124.960	3.5
669.4618	24.00	-4.88	33906.650	1.0	48839.900	1.0
669.4643	28.00	-3.32	43654.974	3.0	58588.168	3.0
669.4690	62.01	-1.90	12179.286	0.0	27116.497	0.0
669.4740	28.00	-3.24	42653.723	2.0	57586.700	2.0
669.4750	39.00	-1.43	18389.915	0.0	33326.993	0.0
669.4999	28.01	-1.38	121800.340	1.5	136732.740	1.5
669.5044	15.00	-1.98	65585.000	2.5	80517.300	2.5
669.5062	6.00	-4.25	71385.380	2.0	86317.640	2.0
669.5434	25.01	-4.16	72648.800	4.0	87580.230	4.0
669.5558	7.00	-1.81	97805.810	1.5	112736.961	1.5
669.5689	18.01	-1.87	189654.780	2.5	204585.640	2.5
669.5957	22.00	-3.62	26892.926	3.0	41823.190	3.0
669.6044	14.00	-1.83	49060.601	1.0	63990.670	2.0
669.6075	15.00	-3.58	66834.500	1.5	81764.500	1.5
669.6093	25.02	-1.80	216557.380	3.5	231487.340	4.5
669.6280	26.00	-2.04	38995.717	1.0	53925.260	1.0
669.6299	18.01	-1.85	179931.770	1.5	194861.270	2.5
669.6478	13.01	-1.87	120089.800	1.0	135018.900	2.0
669.7030	23.01	-7.25	22273.540	1.0	37201.410	0.0
669.7200	22.00	-5.06	6661.003	3.0	21588.496	4.0
669.7578	17.00	-1.94	85244.330	.5	100170.980	1.5
669.7609	28.01	-4.71	116824.150	2.5	131750.730	3.5
669.7856	15.00	-2.60	65373.470	.5	80299.500	1.5
669.7905	28.01	-4.56	118809.340	1.5	133735.260	2.5
669.7964	28.01	-3.44	115785.060	1.5	130710.850	.5
669.7971	22.00	-3.70	26892.926	3.0	41818.700	4.0
669.8309	26.02	-4.80	136612.780	4.0	151537.800	4.0
669.8323	28.01	-1.38	121800.340	1.5	136725.330	.5
669.8453	29.01	-4.90	116388.000	2.0	131312.700	3.0
669.8465	18.00	-4.79	106087.305	1.0	121011.979	1.0
669.8506	22.00	-2.71	11639.804	3.0	26564.385	3.0
669.8817	17.00	-3.00	82918.893	2.5	97842.783	1.5
669.8876	18.00	-2.09	106237.597	2.0	121161.356	1.0
669.9045	10.01	-1.63	303237.910	1.5	318161.290	2.5
669.9153	26.00	-2.90	37046.000	4.0	51969.140	3.0
669.9202	26.01	-4.04	48039.230	2.5	62962.260	1.5
669.9206	14.00	-2.16	49399.670	1.0	64322.690	0.0
669.9294	26.00	-4.85	35611.608	3.0	50534.435	3.0
669.9306	27.00	-4.95	40345.950	2.5	55268.750	3.5
669.9396	17.00	-4.93	84485.309	1.5	99407.907	.5
669.9476	24.00	-4.11	42438.820	2.0	57361.240	3.0
669.9530	13.01	-2.57	120089.800	1.0	135012.100	1.0
669.9611	26.01	-6.68	27314.930	3.5	42237.050	3.5
669.9735	55.00	-4.34	14499.257	0.0	29425.220	0.0
669.9750	7.00	-2.31	97770.150	.5	112691.960	.5
669.9773	26.01	-4.59	50187.950	3.5	65109.710	3.5
669.9957	26.02	-4.52	136612.780	4.0	151534.130	3.0
670.0006	23.00	-3.32	11100.650	4.5	26021.890	3.5
670.0481	7.00	-2.34	95475.280	.5	110395.463	1.5
670.0590	26.02	-4.73	105906.230	2.0	120826.170	2.0
670.0590	24.01	-3.45	53923.570	4.5	68843.510	3.5
670.0710	39.00	-.43	18389.915	0.0	33313.707	0.0
670.0788	24.00	-2.34	39158.630	4.0	54078.130	5.0
670.0890	28.00	-2.45	34408.574	1.0	49327.845	2.0
670.0922	13.01	-2.57	120089.800	1.0	135009.000	0.0
670.1048	27.00	-4.79	15184.040	2.5	30102.960	2.5
670.1060	63.00	-.61	19357.805	0.0	34280.817	0.0
670.1187	28.01	-3.55	101357.200	4.5	116275.810	3.5
670.1200	41.00	-1.19	13389.148	0.0	28311.848	0.0
670.1205	14.03	.74	276579.030	1.5	291497.600	2.5
670.1250	26.01	-4.68	49506.990	1.5	64425.460	2.5
670.1250	14.03	-.22	276579.030	1.5	291497.500	1.5
670.1403	24.00	-4.66	27597.220	3.0	42515.350	2.0
670.1641	24.00	-1.96	31048.850	1.0	45966.450	2.0
670.1677	28.01	-3.02	106133.140	1.5	121050.660	2.5
670.2120	40.00	-1.93	11534.025	0.0	26454.677	0.0
670.2120	64.01	-1.15	18551.230	0.0	33471.882	0.0
670.2418	23.00	-3.51	23088.060	1.5	38003.930	1.5
670.2823	25.02	-4.46	177477.230	2.5	192392.200	3.5
670.2848	7.00	-1.81	95532.120	2.5	110447.032	1.5
670.3222	17.00	-2.03	83130.900	1.5	98044.980	1.5
670.3353	24.00	-3.02	33060.740	3.0	47974.530	3.0
670.3574	26.00	-3.53	22249.430	3.0	37162.729	3.0
670.3610	62.00	.24	17502.682	0.0	32420.018	0.0
670.3735	23.01	-5.38	20280.190	5.0	35193.130	5.0
670.4040	90.01	-2.79	8388.382	0.0	23304.761	0.0
670.4180	64.01	-1.75	12985.861	0.0	27901.928	0.0
670.4212	26.00	-4.68	40534.180	3.0	55446.060	4.0
670.4214	28.00	-4.67	44206.185	3.0	59118.060	2.0
670.4234	24.00	-4.10	42438.820	2.0	57350.650	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
670.4288	28.01	-4.50	116191.470	2.5	131103.180	2.5
670.4455	26.00	-2.38	34017.084	1.0	48928.423	2.0
670.4637	22.00	-2.23	26803.417	2.0	41714.350	2.0
670.4648	9.02	-2.29	427459.370	.5	442370.280	.5
670.4657	24.01	-4.00	53566.220	3.5	68477.110	4.5
670.4825	7.00	-1.35	95475.280	.5	110385.795	.5
670.4909	10.01	-4.81	279422.890	.5	294333.220	.5
670.5100	26.00	-2.08	37157.546	2.0	52067.450	2.0
670.5106	26.00	-2.61	39969.830	3.0	54879.720	2.0
670.5313	28.01	-1.95	106133.140	1.5	121042.570	1.5
670.5777	13.01	-1.59	133914.100	2.0	148822.500	3.0
670.5948	28.01	-4.90	116167.760	1.5	131075.780	1.5
670.5957	29.01	-3.06	135834.900	4.0	150742.900	3.0
670.6094	7.00	-1.80	95493.660	1.5	110401.356	2.5
670.6253	26.02	-3.11	183431.280	5.0	198338.620	4.0
670.6290	22.00	-2.37	12118.394	4.0	27025.652	4.0
670.6321	28.01	-3.94	114874.880	2.5	129782.070	3.5
670.6460	73.00	-2.17	15002.299	0.0	29913.295	0.0
670.6690	28.01	-3.64	118828.610	2.5	133734.980	3.5
670.6726	28.01	-4.53	115785.060	1.5	130691.350	1.5
670.6906	26.01	-4.63	48039.230	2.5	62945.120	3.5
670.6979	14.00	-2.48	48020.074	1.0	62925.800	1.0
670.7293	28.01	-1.21	121385.800	1.5	136290.830	.5
670.7418	17.00	-1.63	85442.430	1.5	100347.182	2.5
670.7432	26.00	-3.86	37162.729	3.0	52067.450	2.0
670.7450	62.01	-2.20	7420.492	0.0	22329.287	0.0
670.7520	44.00	-.84	23229.366	0.0	38138.006	0.0
670.7563	23.00	-2.53	22121.170	4.5	37025.600	3.5
670.7566	55.00	-3.27	14499.257	0.0	29407.795	0.0
670.7567	9.02	-1.25	427731.850	2.5	442636.270	3.5
670.7644	24.00	-3.14	33935.650	2.0	48839.900	1.0
670.7800	3.00	.18	0.000	0.0	14908.018	0.0
670.7824	26.02	-3.30	186303.440	3.0	201207.290	4.0
670.8085	23.00	-2.99	9824.580	2.5	24727.850	2.5
670.8275	9.00	-1.62	102405.710	2.5	117308.558	1.5
670.8296	28.01	-1.79	121385.800	1.5	136288.600	2.5
670.8346	28.01	-4.06	115085.360	3.5	129988.050	2.5
670.8634	9.01	-2.10	255606.240	1.0	270508.290	2.0
670.8745	7.00	-1.79	95493.660	1.5	110395.463	1.5
670.8755	22.00	-2.07	31628.668	5.0	46530.450	4.0
670.8765	24.01	-4.39	74423.840	3.5	89325.600	4.5
670.9048	24.00	-3.38	33113.270	4.0	48014.400	4.0
670.9104	14.00	-2.72	48020.074	1.0	62921.080	2.0
670.9390	73.00	-.87	23793.968	0.0	38698.453	0.0
670.9500	57.00	-1.00	2984.328	0.0	17888.568	0.0
670.9610	40.00	-2.63	4113.534	0.0	19017.530	0.0
670.9899	25.01	-4.00	53597.130	2.0	68496.370	1.0
671.0043	22.00	-2.25	26657.409	4.0	41556.330	5.0
671.0048	20.02	-1.28	344257.920	1.0	359156.830	1.0
671.0325	26.00	-5.40	11976.239	4.0	26874.534	5.0
671.0420	78.00	.31	37586.404	0.0	52488.601	0.0
671.0450	63.00	-.08	21616.215	0.0	36518.345	0.0
671.0538	20.02	-.97	346896.260	2.0	361794.080	1.0
671.0569	14.00	-3.15	49188.617	2.0	64086.370	1.0
671.0805	28.01	-2.37	99154.810	4.5	114052.040	3.5
671.0845	24.00	-2.67	47793.820	5.0	62690.960	5.0
671.1021	22.00	-4.53	6842.964	5.0	21739.713	5.0
671.1300	75.00	-2.34	17583.339	0.0	32483.582	0.0
671.1318	28.01	-4.66	116167.760	1.5	131063.850	.5
671.1323	6.00	-2.47	68856.330	1.0	83752.410	1.0
671.1467	23.00	-3.48	23210.560	2.5	38106.320	2.5
671.1489	28.01	-3.28	121180.550	5.5	136076.260	4.5
671.1553	25.00	-4.93	27248.000	1.5	42143.570	1.5
671.1575	28.00	-3.86	16017.317	0.0	30912.838	1.0
671.1620	26.02	-4.84	186268.790	2.0	201164.210	2.0
671.1670	28.01	-1.40	106007.890	2.5	120903.200	3.5
671.1743	26.00	-3.77	43079.013	1.0	57974.160	2.0
671.2129	28.01	-.80	122812.970	3.5	137707.260	3.5
671.2377	28.01	-.67	122812.970	3.5	137706.710	2.5
671.2412	26.00	-2.66	40231.312	2.0	55124.974	3.0
671.2620	62.01	-1.83	11937.313	0.0	26834.626	0.0
671.2774	28.01	-2.56	119315.440	2.5	134208.300	2.5
671.2792	23.02	-3.48	146347.200	5.5	161240.020	5.5
671.2828	23.00	-4.05	27470.880	3.5	42363.620	3.5
671.3038	26.00	-1.39	37157.546	2.0	52049.820	2.0
671.3076	23.00	-2.70	21646.390	3.5	36538.580	4.5
671.3101	7.00	-2.81	95493.660	1.5	110385.795	.5
671.3199	26.00	-3.26	33412.706	3.0	48304.623	2.0
671.3200	39.00	-.36	21374.243	0.0	36270.269	0.0
671.3256	15.01	-1.28	86744.700	1.0	101636.490	1.0
671.3297	17.01	-2.73	132162.000	3.0	147053.700	2.0
671.3433	22.00	-2.21	27025.652	4.0	41917.050	4.0
671.3480	72.00	-1.41	16050.847	0.0	30946.251	0.0
671.3514	10.01	-3.82	302890.570	2.5	317781.790	1.5
671.3567	30.02	-2.53	219684.900	3.0	234576.000	4.0
671.3586	6.00	-2.17	68856.330	1.0	83747.390	2.0
671.3680	10.01	-4.58	302890.570	2.5	317781.420	2.5
671.3690	81.00	-1.39	26294.352	0.0	41189.291	0.0
671.3745	26.00	-1.72	38678.015	2.0	53568.720	2.0
671.3980	90.00	-2.18	6291.287	0.0	21185.582	0.0
671.4090	57.01	-.95	22180.818	0.0	37074.869	0.0
671.4261	22.00	-4.27	20795.599	5.0	35685.160	6.0
671.4261	9.00	-1.49	119081.820	.5	133971.380	1.5
671.4347	23.00	-3.69	23353.090	3.5	38242.460	3.5
671.4598	17.00	-1.88	82918.893	2.5	97807.707	2.5
671.4735	24.00	-4.86	32097.360	6.0	46985.870	5.0
671.4740	21.00	-4.00	25014.150	2.5	39902.650	3.5
671.4834	25.02	-4.80	177477.230	2.5	192365.520	1.5
671.5145	16.01	-4.58	112937.330	.5	127824.930	.5
671.5326	26.02	-4.37	151534.130	3.0	166421.330	4.0
671.5375	26.00	-2.22	37162.729	3.0	52049.820	2.0
671.5407	24.00	-.84	33671.550	3.0	48558.570	2.0
671.5579	28.01	-4.30	97799.660	1.5	112686.300	2.5
671.5800	7.00	-2.61	97805.810	1.5	112691.960	.5
671.5903	28.01	-4.69	121190.340	4.5	136076.260	4.5
671.6000	72.00	-1.34	22342.133	0.0	37231.948	0.0
671.6016	10.01	-4.98	313432.280	3.5	328317.950	2.5
671.6128	28.00	-4.06	15734.018	1.0	30619.440	2.0
671.6247	26.00	-2.10	36940.600	2.0	51825.758	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
671.6383	26.00	-4.60	40491.260	0.0	55376.117	1.0
671.6422	9.02	-.87	426431.030	.5	441315.800	.5
671.6707	22.00	-1.11	20062.980	1.0	34947.120	1.0
671.6716	29.01	-1.54	120875.850	2.0	135759.970	2.0
671.6892	6.00	-3.53	68856.330	1.0	83740.060	0.0
671.6982	26.02	-3.65	151537.800	4.0	166421.330	4.0
671.7041	24.01	-5.00	39742.360	2.5	54625.760	2.5
671.7043	10.00	-.31	135888.717	1.0	150772.112	1.0
671.7402	15.00	-1.85	64239.500	.5	79122.100	1.5
671.7481	22.00	-3.25	15156.787	4.0	30039.211	5.0
671.7495	26.00	-2.48	37157.546	2.0	52039.939	1.0
671.7573	27.00	-2.32	34196.210	1.5	49078.430	1.5
671.7681	20.00	-2.23	21849.634	2.0	36731.615	1.0
671.7704	26.02	-2.56	183456.690	3.0	198338.620	4.0
671.7754	29.01	-2.12	110365.980	2.0	125247.800	2.0
671.7821	22.01	-1.67	25193.040	2.5	40074.710	3.5
671.7880	40.00	-1.61	10969.423	0.0	25855.071	0.0
671.7912	26.02	-3.54	183457.150	4.0	198338.620	4.0
671.8006	8.01	-1.15	233544.090	1.5	248425.350	.5
671.8140	64.01	-.94	18551.230	0.0	33436.302	0.0
671.8300	44.00	-.13	27826.844	0.0	42711.562	0.0
671.8303	22.00	-3.07	11776.806	4.0	26657.409	4.0
671.8350	28.01	-1.90	118563.390	3.5	133443.890	2.5
671.8378	14.00	-3.32	47351.554	2.0	62231.990	2.0
671.8408	26.02	-3.45	183456.690	3.0	198337.060	3.0
671.8530	24.00	-2.42	47793.820	5.0	62673.920	6.0
671.8616	26.02	-2.80	183457.150	4.0	198337.060	3.0
671.8680	57.01	-1.10	24358.571	0.0	39242.447	0.0
671.8891	21.00	-4.65	25724.720	3.5	40604.020	3.5
671.9000	7.04	-.16	731432.000	0.0	746315.167	0.0
671.9085	22.00	-1.94	33980.639	2.0	48859.510	1.0
671.9126	25.00	-1.97	47753.990	2.5	62632.770	3.5
671.9212	18.00	-3.05	107054.319	0.0	121932.908	1.0
671.9519	18.01	-2.70	187589.230	2.5	202467.140	1.5
671.9555	24.00	-2.94	33040.100	2.0	47917.930	2.0
671.9556	22.00	-3.22	27025.652	4.0	41903.480	5.0
671.9587	28.01	-2.97	100332.090	4.5	115209.850	3.5
671.9849	24.00	-2.92	47793.820	5.0	62671.000	4.0
671.9989	26.02	-2.69	183456.690	3.0	198333.560	2.0
672.0214	28.00	-4.26	33590.159	4.0	48466.530	5.0
672.0215	28.01	-1.54	121325.090	2.5	136201.460	3.5
672.0233	23.00	-2.76	19189.280	1.5	34065.610	2.5
672.0337	15.00	-1.47	65585.000	2.5	80461.100	3.5
672.0445	24.00	-2.09	47786.100	2.0	62661.960	3.0
672.0495	28.01	-2.33	118294.170	3.5	133169.920	3.5
672.0504	24.01	-4.24	50667.330	3.5	65543.060	3.5
672.0664	28.00	-3.37	43654.974	3.0	58530.350	3.0
672.0840	92.01	-2.77	6371.944	0.0	21251.036	0.0
672.0901	27.00	-1.76	31871.150	3.5	46746.000	2.5
672.0908	14.00	-2.41	47351.554	2.0	62226.390	1.0
672.0954	7.00	-2.65	95475.280	.5	110350.014	.5
672.1137	10.00	-3.10	151038.452	1.0	165912.782	1.0
672.1249	24.00	-2.95	27382.180	2.0	42256.260	3.0
672.1357	8.01	-.59	189068.370	1.5	203942.210	.5
672.1376	28.00	-3.92	44314.980	4.0	59188.780	3.0
672.1548	28.01	-4.22	119909.720	1.5	134783.140	2.5
672.1615	28.01	-4.85	119100.060	1.5	133973.330	2.5
672.1848	14.00	-1.49	47284.061	1.0	62156.816	2.0
672.1968	24.00	-2.71	33113.270	4.0	47985.760	5.0
672.2036	24.00	-2.74	27382.180	2.0	42254.520	2.0
672.2165	9.00	-2.24	117872.916	1.5	132744.970	1.5
672.2465	22.00	-2.68	27740.190	2.0	42611.580	1.0
672.2533	24.00	-2.80	27382.180	2.0	42253.420	1.0
672.2538	28.01	-2.66	121456.320	1.5	136327.550	1.5
672.2596	7.00	-.98	95532.120	2.5	110403.220	3.5
672.2732	22.00	-4.32	31373.801	3.0	46244.600	2.0
672.2757	22.00	-5.54	6598.749	2.0	21469.494	3.0
672.2759	27.00	-.83	36329.860	2.5	51200.600	1.5
672.3220	27.00	-1.14	36329.860	2.5	51199.580	3.5
672.3279	55.00	-.84	11178.270	0.0	26051.965	0.0
672.3324	6.01	-1.82	168123.740	1.5	182993.230	1.5
672.3324	6.01	-1.12	168123.740	1.5	182993.230	.5
672.3383	17.00	-1.88	84485.309	1.5	99354.670	1.5
672.3392	23.00	-6.83	14548.830	2.5	29418.170	3.5
672.3439	7.00	-1.96	95532.120	2.5	110401.356	2.5
672.3620	41.00	-1.48	8630.355	0.0	23503.295	0.0
672.3645	6.01	-.86	168124.450	2.5	182993.230	1.5
672.4058	26.00	-2.17	38678.015	2.0	53545.882	3.0
672.4075	10.01	-3.78	279218.660	2.5	294086.490	1.5
672.4337	10.01	-3.49	302961.070	1.5	317828.320	.5
672.4694	24.00	-2.93	35398.020	4.0	50264.480	3.0
672.4730	62.00	.45	16776.764	0.0	31647.250	0.0
672.4884	25.00	-2.98	51638.170	2.5	66504.210	1.5
672.5124	27.00	-3.38	39649.160	3.5	54514.670	3.5
672.5201	20.02	-2.48	348028.130	3.0	362893.470	2.0
672.5332	26.00	-2.10	33095.922	4.0	47960.973	4.0
672.5527	29.01	-2.59	110365.980	2.0	125230.600	3.0
672.5561	22.00	-2.41	26892.926	3.0	41757.470	3.0
672.5880	62.00	-1.89	0.000	0.0	14867.943	0.0
672.6105	7.00	-2.38	95532.120	2.5	110395.463	1.5
672.6198	28.00	-3.39	43654.974	3.0	58518.110	4.0
672.6279	22.00	-3.53	15108.121	3.0	29971.078	4.0
672.6301	26.02	-4.40	186303.440	3.0	201166.350	3.0
672.6572	9.01	-2.17	254701.620	3.0	269563.930	2.0
672.6640	26.00	-1.29	37157.546	2.0	52019.706	1.0
672.6688	22.00	-3.67	31205.985	3.0	46068.040	4.0
672.6839	25.00	-4.61	27281.850	.5	42143.570	1.5
672.7047	24.00	-2.28	33113.270	4.0	47974.530	3.0
672.7097	28.01	-4.51	118874.110	3.5	133735.260	2.5
672.7100	6.02	-.52	308215.000	0.0	323080.247	0.0
672.7161	24.00	-4.09	27703.840	4.0	42564.850	4.0
672.7224	28.01	-3.64	118874.110	3.5	133734.980	3.5
672.7392	24.00	-2.47	47786.100	2.0	62646.600	2.0
672.7460	90.00	-1.98	5484.711	0.0	20349.162	0.0
672.7482	30.02	-1.94	220006.600	1.0	234866.900	1.0
672.7610	70.01	-.70	32908.268	0.0	47772.388	0.0
672.7830	64.01	-1.73	11372.710	0.0	26236.344	0.0
672.7960	92.00	-2.26	5726.684	0.0	20590.030	0.0
672.7989	28.01	-3.84	100010.170	.5	114869.350	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
672.8040	42.00	-1.20	25568.434	0.0	40431.604	0.0
672.8297	28.01	-3.71	106369.300	1.5	121227.800	2.5
672.8397	15.00	-2.32	65450.020	1.5	80308.300	2.5
672.8410	25.00	-2.23	47774.520	3.5	62632.770	3.5
672.8447	28.01	-3.60	118877.090	1.5	133735.260	2.5
672.8483	23.00	-2.17	21603.170	4.5	36461.260	3.5
672.8668	22.00	-4.08	26657.409	4.0	41515.090	4.0
672.8890	24.00	-2.33	33060.740	3.0	47917.930	2.0
672.8994	9.01	-2.54	254716.680	2.0	269573.640	1.0
672.9158	24.00	-1.74	47814.400	3.0	62671.000	4.0
672.9269	7.00	-1.96	95493.660	1.5	110350.014	.5
672.9286	14.00	-3.37	49028.294	0.0	63884.610	1.0
672.9560	76.00	-1.75	15082.956	0.0	29942.769	0.0
672.9688	24.01	-3.53	50687.630	2.5	65543.060	3.5
672.9688	24.01	-4.23	69638.770	1.5	84494.200	2.5
672.9769	24.00	-.68	35398.020	4.0	50253.270	5.0
672.9774	24.01	-4.60	74318.860	2.5	89174.100	3.5
672.9941	24.00	-4.57	35807.900	2.0	50662.770	1.0
673.0018	28.01	-1.65	98467.250	3.5	113321.950	4.5
673.0101	22.00	-3.95	11639.804	3.0	26494.322	2.0
673.0151	14.00	-1.86	48020.074	1.0	62874.480	2.0
673.0235	17.00	-1.50	85735.091	1.5	100589.312	2.5
673.0304	28.01	-3.44	117074.700	3.5	131928.770	4.5
673.0335	17.01	-2.79	147053.700	2.0	161907.700	2.0
673.0450	44.00	-1.58	16050.847	0.0	30908.695	0.0
673.0585	24.01	-4.31	74484.250	2.5	89337.700	1.5
673.0700	6.02	-.17	308248.000	0.0	323105.296	0.0
673.0730	64.00	-1.59	967.890	0.0	15825.119	0.0
673.0847	28.01	-4.46	121178.560	3.5	136031.430	2.5
673.0934	28.00	-4.02	44336.100	4.0	59188.780	3.0
673.1056	14.00	-3.31	49399.670	1.0	64252.080	2.0
673.1156	25.00	-4.52	27201.540	2.5	42053.730	2.5
673.1233	23.00	-2.89	23088.060	1.5	37940.080	.5
673.1559	28.01	-4.47	121050.660	2.5	135901.960	2.5
673.1840	62.01	-1.22	9356.272	0.0	24211.052	0.0
673.1985	23.00	-1.92	15270.420	1.5	30120.780	2.5
673.1985	9.01	-3.23	254723.280	1.0	269573.640	1.0
673.2095	26.00	-2.48	36975.640	3.0	51825.758	3.0
673.2361	28.01	-1.94	121699.020	1.5	136548.550	2.5
673.2385	15.00	-2.01	65450.020	1.5	80299.500	1.5
673.2520	25.01	-3.75	67295.160	4.0	82144.340	3.0
673.2780	57.01	-1.40	21938.845	0.0	36791.551	0.0
673.3146	26.00	-1.77	37409.530	1.0	52257.330	0.0
673.3255	24.00	-2.96	47814.400	3.0	62661.960	3.0
673.3308	7.00	-1.79	95475.280	.5	110322.721	1.5
673.3309	9.02	-.60	444957.110	1.5	459804.550	1.5
673.3314	25.00	-3.81	30411.740	.5	45259.170	1.5
673.3350	9.01	-2.32	254701.620	3.0	269548.970	3.0
673.3395	9.01	-3.14	254716.680	2.0	269563.930	2.0
673.3418	28.01	-2.60	103025.580	2.5	117872.780	2.5
673.3572	24.00	-4.12	35807.900	2.0	50654.760	2.0
673.3572	25.01	-3.37	87858.510	2.0	102705.370	3.0
673.3636	28.01	-4.67	116824.150	2.5	131670.870	2.5
673.3743	28.00	-2.77	27943.543	1.0	42790.027	2.0
673.3894	10.01	-3.19	302816.980	1.5	317663.130	1.5
673.3980	42.01	-1.97	10646.793	0.0	25496.852	0.0
673.4012	24.00	-.87	42515.350	2.0	57361.240	3.0
673.4060	62.01	-1.25	10969.423	0.0	25819.306	0.0
673.4081	22.00	-5.29	6742.757	4.0	21588.496	4.0
673.4144	20.02	-4.26	371061.300	3.0	385906.900	2.0
673.4175	24.00	-.97	33816.060	4.0	48661.590	3.0
673.4724	22.00	-3.69	31805.940	2.0	46650.260	3.0
673.4810	62.01	-1.35	11937.313	0.0	26785.542	0.0
673.5001	14.00	-2.01	49399.670	1.0	64243.380	2.0
673.5232	29.01	-3.83	134359.900	1.0	149203.100	0.0
673.5577	22.00	-3.16	18818.230	0.0	33660.671	1.0
673.5752	22.00	-2.15	26772.965	5.0	41615.020	6.0
673.5760	71.00	-1.56	20325.695	0.0	35171.830	0.0
673.5990	39.00	-.55	19277.147	0.0	34122.775	0.0
673.6141	15.00	-3.96	65585.000	2.5	80426.200	1.5
673.6213	25.01	-4.03	67295.160	4.0	82136.200	4.0
673.6217	24.00	-4.69	35813.730	3.0	50654.760	2.0
673.6340	23.00	-2.39	19189.280	1.5	34030.040	1.5
673.6389	9.01	-3.51	254723.280	1.0	269563.930	2.0
673.6431	29.01	-1.22	120919.410	1.0	135759.970	2.0
673.6467	24.01	-4.20	69478.060	2.5	84318.540	1.5
673.6713	22.00	-4.65	15220.390	5.0	30060.328	4.0
673.6885	25.00	-3.84	30419.610	2.5	45259.170	1.5
673.6929	7.00	-3.19	97770.150	.5	112609.612	1.5
673.7057	23.01	-2.71	32040.760	2.0	46879.940	2.0
673.7266	25.00	-3.42	44978.980	1.5	59817.700	2.5
673.7743	9.00	-1.52	119081.820	.5	133919.490	1.5
673.7843	24.00	-2.51	33040.100	2.0	47877.550	1.0
673.7902	28.01	-3.42	118897.940	2.5	133735.260	2.5
673.7915	28.01	-4.69	121194.140	2.5	136031.430	2.5
673.7958	26.00	-4.08	36766.950	3.0	51604.146	3.0
673.8279	22.00	-2.09	34078.580	3.0	48915.070	2.0
673.8333	22.00	-2.48	27887.740	3.0	42724.110	2.0
673.8392	38.01	-6.71	0.000	0.0	14840.336	0.0
673.8647	27.00	-3.67	31871.150	3.5	46706.630	3.5
673.8792	28.01	-4.57	121240.900	3.5	136076.260	4.5
673.8819	24.00	-.21	42515.350	2.0	57350.650	2.0
673.8983	9.02	-1.59	427459.370	.5	442294.310	1.5
673.9055	22.00	-2.11	18825.890	1.0	33660.671	1.0
673.9178	28.01	-3.24	121456.320	1.5	136290.830	.5
673.9301	22.01	-4.38	25193.040	2.5	40027.280	1.5
673.9423	24.00	-.75	42538.810	3.0	57372.780	4.0
673.9493	14.00	-1.86	48102.323	2.0	62936.140	3.0
673.9526	26.00	-5.65	12560.933	3.0	27394.676	3.0
673.9633	28.00	-2.32	44206.185	3.0	59039.693	4.0
673.9655	25.00	-3.58	30425.710	1.5	45259.170	1.5
673.9880	41.00	-1.75	8307.725	0.0	23144.784	0.0
674.0123	28.01	-1.95	106283.160	2.5	121115.590	1.5
674.0186	9.01	-3.22	254716.680	2.0	269548.970	3.0
674.0191	28.01	-2.16	121456.320	1.5	136288.600	2.5
674.0209	28.01	-1.74	121699.020	1.5	136531.260	1.5
674.0228	24.00	-2.58	47814.400	3.0	62646.600	2.0
674.0551	22.00	-4.38	34204.971	4.0	49036.460	4.0
674.0623	10.01	-2.88	302831.800	.5	317663.130	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
674.0730	73.00	-1.69	13227.833	0.0	28063.021	0.0
674.0855	25.01	-3.98	55696.500	4.0	70527.320	5.0
674.1100	25.02	-2.50	216557.380	3.5	231387.660	3.5
674.1205	29.01	-4.90	135952.550	2.0	150782.600	2.0
674.1244	22.00	-3.96	18825.890	1.0	33655.853	2.0
674.1268	23.01	-5.89	20363.220	6.0	35193.130	5.0
674.1300	23.00	-3.20	19189.280	1.5	34019.120	1.5
674.1420	29.00	-.47	56056.976	0.0	70890.646	0.0
674.1470	62.01	-1.72	7985.094	0.0	22818.654	0.0
674.1501	22.00	-4.39	15156.787	4.0	29986.185	3.0
674.1628	14.00	-1.87	48264.292	3.0	63093.410	2.0
674.1654	7.00	-2.18	95493.660	1.5	110322.721	1.5
674.1878	9.00	-2.52	119081.820	.5	133910.390	.5
674.1978	26.02	-1.95	186378.940	4.0	201207.290	4.0
674.2100	6.02	-.64	308248.000	0.0	323080.174	0.0
674.2178	27.00	-1.51	39649.160	3.5	54477.070	3.5
674.2332	25.02	-4.92	177185.180	.5	192012.750	1.5
674.2364	13.01	-2.27	120089.800	1.0	134917.300	1.0
674.2496	24.01	-3.17	54678.950	4.5	69506.160	3.5
674.2581	28.00	-3.64	35639.148	3.0	50466.172	4.0
674.2605	9.02	-.60	426558.910	1.5	441385.880	1.5
674.2619	25.02	-3.61	121117.140	3.5	135944.080	4.5
674.2870	90.00	-1.49	12743.888	0.0	27574.368	0.0
674.2989	26.00	-2.89	33412.706	3.0	48238.832	2.0
674.3124	22.00	-1.92	7255.369	2.0	22081.198	2.0
674.3181	22.00	-2.92	20209.444	2.0	35035.147	2.0
674.3513	16.00	-1.33	63445.115	1.0	78270.090	0.0
674.3513	16.00	-.98	63445.115	1.0	78270.090	1.0
674.3515	9.02	-.27	427545.310	1.5	442370.280	.5
674.3726	16.00	-1.09	63445.115	1.0	78269.620	2.0
674.3738	24.00	-1.47	47866.480	4.0	62690.960	5.0
674.3840	55.00	-4.32	14596.845	0.0	29425.192	0.0
674.3911	23.00	-2.62	15270.420	1.5	30094.520	1.5
674.3951	14.00	-3.19	49060.601	1.0	63884.610	1.0
674.3956	9.03	-.45	662843.000	3.0	677667.000	3.0
674.3956	16.01	-2.09	115817.000	2.5	130641.000	1.5
674.4024	10.01	-2.03	302839.280	2.5	317663.130	1.5
674.4083	22.00	-2.52	26657.409	4.0	41481.130	5.0
674.4174	23.00	-3.64	9824.580	2.5	24648.100	1.5
674.4179	24.00	-4.63	36577.730	4.0	51401.240	5.0
674.4194	14.00	-3.08	48102.323	2.0	62925.800	1.0
674.4200	6.02	.10	308317.000	0.0	323144.556	0.0
674.4638	24.01	-4.29	69903.460	3.5	84725.960	3.5
674.4670	24.00	-.24	42538.810	3.0	57361.240	3.0
674.4700	58.01	-1.11	13469.806	0.0	28296.262	0.0
674.4880	63.00	-.38	15970.189	0.0	30796.250	0.0
674.5084	26.00	-2.23	36940.600	2.0	51762.120	2.0
674.5128	22.00	-3.31	26892.926	3.0	41714.350	2.0
674.5280	24.01	-4.63	74504.510	4.5	89325.600	4.5
674.5449	10.01	-3.05	302961.070	1.5	317781.790	1.5
674.5550	22.00	-2.24	18037.225	4.0	32857.721	3.0
674.5558	28.01	-3.42	91800.050	4.5	106620.530	3.5
674.5617	10.01	-4.39	302961.070	1.5	317781.420	2.5
674.5626	28.01	-4.21	100389.520	2.5	115209.850	3.5
674.5681	25.01	-4.28	53597.130	2.0	68417.340	2.0
674.5907	17.00	-2.42	85917.937	.5	100737.650	.5
674.5922	27.00	-3.48	40345.950	2.5	55165.630	2.5
674.5928	26.00	-2.49	32873.623	4.0	47693.289	3.0
674.6023	22.00	-1.56	34204.971	4.0	49024.430	3.0
674.6080	42.00	-1.72	18389.915	0.0	33213.338	0.0
674.6086	24.01	-2.25	54678.950	4.5	69498.270	4.5
674.6145	24.00	-3.33	31355.210	2.0	46174.400	3.0
674.6177	25.00	-3.55	47753.990	2.5	62573.110	1.5
674.6254	24.01	-3.70	53051.550	1.5	67870.500	1.5
674.6270	42.00	-1.10	20245.038	0.0	35068.044	0.0
674.6313	22.00	-2.49	15220.390	5.0	30039.211	5.0
674.6323	28.00	-4.13	42767.900	3.0	57586.700	2.0
674.6342	14.00	-4.51	48102.323	2.0	62921.080	2.0
674.6560	74.00	-1.63	23793.968	0.0	38616.337	0.0
674.6605	28.01	-2.22	121699.020	1.5	136517.200	.5
674.6609	24.00	-4.84	24093.160	2.0	38911.330	3.0
674.6650	24.00	-.78	42564.850	4.0	57382.930	5.0
674.6695	9.00	-2.97	118405.267	.5	133223.250	.5
674.6915	13.01	-1.72	133914.100	2.0	148731.600	3.0
674.6960	26.00	-4.13	21038.987	2.0	35856.386	2.0
674.7251	25.02	-1.61	216670.580	4.5	231487.340	4.5
674.7415	29.01	-4.26	133826.200	2.0	148642.600	2.0
674.7552	25.00	-3.89	51638.170	2.5	66454.270	3.5
674.8112	23.00	-1.75	21646.390	3.5	36461.260	2.5
674.8112	23.00	-2.66	21646.390	3.5	36461.260	3.5
674.8130	57.00	-1.04	8388.382	0.0	23207.302	0.0
674.8317	24.01	-3.44	53923.570	4.5	68737.990	5.5
674.8335	24.00	-3.83	35813.730	3.0	50628.110	3.0
674.8376	22.00	-2.98	15156.787	4.0	29971.078	4.0
674.8555	16.00	-1.46	63456.192	2.0	78270.090	1.0
674.8769	16.00	-.87	63456.192	2.0	78269.620	2.0
674.8769	16.00	-.67	63456.192	2.0	78269.620	3.0
674.8834	28.00	-2.30	42954.234	2.0	57767.520	1.0
674.8987	28.01	-4.16	116824.150	2.5	131637.100	3.5
674.9014	9.02	-3.84	376814.020	2.5	391626.910	3.5
674.9032	24.00	-.82	35398.020	4.0	50210.870	4.0
674.9190	22.00	-3.74	29768.655	2.0	44581.160	2.0
674.9269	25.00	-1.22	48270.910	2.5	63083.240	1.5
674.9319	28.01	-2.08	104503.220	2.5	119315.440	2.5
674.9392	28.01	-3.74	118923.200	3.5	133735.260	2.5
674.9493	24.00	-.65	42538.810	3.0	57350.650	2.0
674.9535	26.00	-4.20	29371.860	3.0	44183.607	2.0
675.0067	23.01	-4.82	25191.080	2.0	40001.660	2.0
675.0155	26.00	-2.80	19552.474	1.0	34362.860	1.0
675.0299	24.00	-2.88	31364.330	3.0	46174.400	3.0
675.0906	23.01	-3.20	32299.240	1.0	47107.980	1.0
675.1019	22.00	-6.56	6661.003	3.0	21469.494	3.0
675.1079	24.01	-3.22	53051.550	1.5	67859.910	.5
675.1261	28.01	-4.50	118927.020	4.5	133734.980	3.5
675.1275	24.00	-.18	42564.850	4.0	57372.780	4.0
675.1605	17.00	-2.72	85442.430	1.5	100249.636	2.5
675.1882	22.00	-3.67	15108.121	3.0	29914.720	3.0
675.1969	17.00	-2.36	85244.330	.5	100050.736	1.5
675.2011	7.00	-1.33	95493.660	1.5	110299.974	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
675.2232	20.02	-4.27	371061.370	4.0	385867.200	3.0
675.2273	24.00	-3.90	33060.740	3.0	47866.480	4.0
675.2350	45.00	.16	26939.612	0.0	41749.271	0.0
675.2374	28.01	-5.00	121180.540	4.5	135986.060	3.5
675.2611	29.01	-3.32	133826.200	2.0	148631.200	3.0
675.2670	64.01	-.36	18631.887	0.0	33440.844	0.0
675.2702	26.00	-1.55	37409.530	1.0	52214.330	1.0
675.2730	40.00	-1.82	7985.094	0.0	22793.919	0.0
675.2829	18.00	-1.78	104102.144	1.0	118906.665	2.0
675.2830	24.00	-2.59	47866.480	4.0	62671.000	4.0
675.2850	22.00	-2.38	26564.385	3.0	41368.860	4.0
675.2873	17.00	-4.20	85442.430	1.5	100246.855	1.5
675.2944	23.02	-.81	146223.050	3.5	161027.320	4.5
675.2999	25.00	-2.14	45013.550	2.5	59817.700	2.5
675.3012	23.00	-1.94	8715.720	3.5	23519.840	4.5
675.3040	57.00	-2.01	0.000	0.0	14808.146	0.0
675.3113	25.02	-3.91	216557.380	3.5	231361.280	2.5
675.3157	7.00	-2.49	97805.810	1.5	112609.612	1.5
675.3427	26.00	-4.61	36766.950	3.0	51570.160	3.0
675.3442	14.00	-3.75	49060.601	1.0	63863.780	2.0
675.3687	23.01	-3.22	32299.240	1.0	47101.880	2.0
675.3833	28.00	-2.67	47030.148	3.0	61832.470	4.0
675.3956	14.00	-4.42	49188.617	2.0	63990.670	2.0
675.3970	42.00	-.44	27262.242	0.0	42068.349	0.0
675.4025	25.00	-2.98	30354.210	3.5	45156.110	2.5
675.4366	18.00	-3.40	107131.755	1.0	121932.908	1.0
675.4463	25.01	-3.74	55696.500	4.0	70497.440	4.0
675.4610	72.01	-2.08	14276.381	0.0	29081.085	0.0
675.4680	62.01	-1.76	11695.340	0.0	26499.890	0.0
675.4860	24.00	-1.00	42589.250	5.0	57389.320	6.0
675.4910	73.00	-.34	26616.982	0.0	41421.028	0.0
675.4930	92.00	-1.80	8065.752	0.0	22869.754	0.0
675.4956	26.01	-6.83	27314.930	3.5	42114.790	4.5
675.4974	6.00	-4.44	71385.380	2.0	86185.200	2.0
675.5080	58.01	-1.64	13469.806	0.0	28273.480	0.0
675.5279	22.00	-4.58	15108.121	3.0	29907.273	2.0
675.5613	9.02	-2.10	445006.130	2.5	459804.550	1.5
675.5850	73.00	-2.66	11695.340	0.0	26497.326	0.0
675.6016	22.00	-4.66	27025.652	4.0	41823.190	3.0
675.6158	18.00	-2.65	107289.747	2.0	122086.974	2.0
675.6444	29.01	-3.02	122416.100	0.0	137212.700	1.0
675.6450	90.00	-2.25	2500.383	0.0	17301.055	0.0
675.6513	27.00	-3.66	39649.160	3.5	54445.610	2.5
675.6517	24.00	-3.71	31377.960	4.0	46174.400	3.0
675.6540	24.00	-.42	42564.850	4.0	57361.240	3.0
675.6540	44.00	.10	32182.351	0.0	46982.826	0.0
675.6554	18.01	-1.13	143371.350	1.5	158167.710	1.5
675.6587	26.00	-3.32	34636.820	2.0	49433.108	2.0
675.6591	23.02	-1.24	147127.000	2.5	161923.280	2.5
675.6718	9.03	-.84	519890.000	2.0	534686.000	1.0
675.6901	13.01	-2.36	132776.400	0.0	147572.000	1.0
675.6938	16.00	-1.81	63474.101	3.0	78269.620	2.0
675.6938	16.00	-.96	63474.101	3.0	78269.620	3.0
675.6942	25.02	-2.50	216691.830	5.5	231487.340	4.5
675.6956	24.00	-2.60	47866.480	4.0	62661.960	3.0
675.6980	9.00	-2.19	118427.823	1.5	133223.250	.5
675.7029	7.00	-2.72	97770.150	.5	112565.470	.5
675.7130	16.00	-.38	63474.101	3.0	78269.200	4.0
675.7148	28.01	-2.33	122441.220	4.5	137236.280	3.5
675.7714	27.00	-4.06	17233.680	3.5	32027.500	3.5
675.7778	24.00	-.11	42589.250	5.0	57382.930	5.0
675.7920	23.00	-2.68	23210.560	2.5	38003.930	1.5
675.8004	14.00	-2.61	48020.074	1.0	62813.260	1.0
675.8061	27.00	-2.20	28470.510	1.5	43263.570	1.5
675.8067	22.00	-2.83	27025.652	4.0	41818.700	4.0
675.8251	7.00	-1.39	95493.660	1.5	110286.305	2.5
675.8486	18.02	-3.73	211563.830	1.0	226355.960	2.0
675.8765	29.01	-.82	121981.680	2.0	136773.200	1.0
675.8769	24.00	-4.79	44068.720	3.0	58860.230	2.0
675.9076	28.01	-4.68	116312.340	1.5	131103.180	2.5
675.9184	7.00	-4.33	95532.120	2.5	110322.721	1.5
675.9250	62.00	-1.33	3952.218	0.0	18746.759	0.0
675.9299	29.01	-3.08	135952.550	2.0	150742.900	3.0
675.9347	14.00	-2.18	47351.554	2.0	62141.800	1.0
675.9414	17.01	-.25	143996.300	4.0	158786.400	3.0
675.9437	28.00	-2.35	34163.294	2.0	48953.344	1.0
675.9586	10.00	-2.08	151038.452	1.0	165828.175	2.0
675.9751	28.00	-3.40	42954.234	2.0	57743.596	3.0
675.9949	24.00	-4.40	27816.880	5.0	42605.810	6.0
676.0020	78.00	.61	37425.089	0.0	52217.945	0.0
676.0150	29.01	-2.24	120875.850	2.0	135664.340	1.0
676.0236	14.02	-2.08	225526.330	3.0	240314.630	3.0
676.0566	22.00	-4.33	11776.806	4.0	26564.385	3.0
676.0631	26.00	-3.72	43922.652	3.0	58710.090	3.0
676.0945	25.01	-4.67	55759.270	3.0	70546.020	4.0
676.0950	23.00	-2.71	19189.280	1.5	33976.020	1.5
676.1025	14.00	-2.22	48020.074	1.0	62806.650	0.0
676.1069	26.00	-2.85	36975.640	3.0	51762.120	2.0
676.1154	17.00	-3.04	85917.937	.5	100704.230	1.5
676.1190	75.00	-2.22	20325.695	0.0	35115.991	0.0
676.1293	25.00	-2.72	51718.220	1.5	66504.210	1.5
676.1439	18.00	-3.85	107496.463	1.0	122282.134	2.0
676.2111	30.02	-1.04	220668.300	2.0	235452.500	2.0
676.2184	14.00	-1.72	49060.601	1.0	63844.640	0.0
676.2200	6.02	-.65	308317.000	0.0	323105.087	0.0
676.2288	17.00	-1.15	84485.309	1.5	99269.121	2.5
676.2380	40.00	-2.66	0.000	0.0	14787.693	0.0
676.2386	28.01	-2.15	98969.440	5.5	113753.040	4.5
676.2418	24.00	-.29	42589.250	5.0	57372.780	4.0
676.2427	24.00	-.08	42605.810	6.0	57389.320	6.0
676.2493	22.00	-4.65	26772.965	5.0	41556.330	5.0
676.2683	28.01	-1.31	107142.210	1.5	121925.160	.5
676.2834	24.01	-4.67	74273.480	1.5	89056.100	2.5
676.2843	13.01	-1.01	133435.000	2.0	148217.600	3.0
676.2902	9.00	.28	123921.050	2.5	138703.520	2.5
676.2999	25.00	-1.10	48300.980	1.5	63083.240	1.5
676.3030	28.00	-4.72	15609.861	2.0	30392.052	1.0
676.3117	17.01	-2.78	147125.700	3.0	161907.700	2.0
676.3264	23.00	-8.71	14514.750	1.5	29296.430	2.5
676.3305	28.01	-3.69	121294.670	4.5	136076.260	4.5
676.3342	9.00	-.86	123922.010	1.5	138703.520	2.5
676.3500	42.00	-1.04	25568.434	0.0	40353.678	0.0
676.3603	26.01	-6.97	27620.390	2.5	42401.330	1.5
676.3905	28.01	-4.44	120002.860	3.5	134783.140	2.5
676.4069	26.01	-2.99	54870.620	2.5	69650.540	2.5
676.4144	26.00	-3.11	37046.000	4.0	51825.756	3.0
676.4349	28.01	-3.60	103663.500	1.5	118442.810	1.5
676.4358	28.01	-4.94	120199.180	1.5	134978.470	2.5
676.4605	23.02	-4.88	145902.730	4.5	160681.480	3.5
676.4669	23.02	-1.14	147606.500	3.5	162385.110	3.5
676.4903	8.01	-2.01	251220.900	3.5	265999.000	3.5
676.4903	8.01	-2.07	251220.900	3.5	265999.000	4.5
676.4920	42.00	-1.04	29843.282	0.0	44625.423	0.0
676.5205	23.00	-4.88	19189.280	1.5	33966.720	.5
676.5211	17.00	-2.47	84988.480	1.5	99765.906	2.5
676.5315	13.01	-2.07	133440.400	3.0	148217.600	3.0
676.5315	13.01	-1.11	133440.400	3.0	148217.600	4.0
676.5315	13.01	-1.29	133440.400	3.0	148217.600	4.0
676.5351	24.00	-.21	42605.810	6.0	57382.930	5.0
676.5450	12.00	-1.92	46403.065	2.0	61179.970	2.0
676.5450	12.00	-2.53	46403.065	2.0	61179.970	3.0
676.5450	12.00	-.49	46403.065	2.0	61179.970	3.0
676.5456	28.01	-4.61	116893.980	2.5	131670.870	2.5
676.6071	26.00	-4.32	36686.159	4.0	51461.707	4.0
676.6331	28.01	-4.86	120203.490	2.5	134978.470	2.5
676.6367	8.01	-1.95	251224.100	2.5	265999.000	3.5
676.6519	23.00	-2.07	8578.520	2.5	23353.090	3.5
676.6520	62.01	-1.86	11695.340	0.0	26473.985	0.0
676.6536	22.00	-4.48	12118.394	4.0	26892.926	3.0
676.6546	9.00	-.79	123921.050	2.5	138695.560	1.5
676.6605	18.00	-3.88	106237.597	2.0	121011.979	1.0
676.6642	24.00	-4.45	33040.100	2.0	47814.400	3.0
676.6950	44.00	.15	28956.050	0.0	43733.756	0.0
676.6986	9.00	.08	123922.010	1.5	138695.560	1.5
676.7000	8.04	-1.05	689586.000	0.0	704363.597	0.0
676.7389	27.00	-2.27	33945.900	2.5	48718.570	2.5
676.7439	10.01	-4.99	302890.570	2.5	317663.130	1.5
676.7494	27.00	-2.25	28470.510	1.5	43242.950	2.5
676.7499	29.01	-4.08	121981.680	2.0	136754.110	2.0
676.7527	24.00	-4.21	27816.880	5.0	42589.250	5.0
676.7624	14.00	-2.09	48102.323	2.0	62874.480	2.0
676.7689	26.00	-2.83	43499.485	4.0	58271.500	5.0
676.7765	16.01	-3.81	113461.220	1.5	128233.070	2.5
676.7768	28.00	-2.08	14728.847	0.0	29500.690	1.0
676.7806	24.01	-4.32	69954.200	2.5	84725.960	3.5
676.8012	24.00	-4.77	44088.920	1.0	58860.230	2.0
676.8264	25.00	-2.35	45013.550	2.5	59784.310	3.5
676.8338	16.01	-2.02	115870.400	1.5	130641.000	1.5
676.8475	13.01	-3.87	133447.300	4.0	148217.600	3.0
676.8475	13.01	-2.30	133447.300	4.0	148217.600	4.0
676.8475	13.01	-2.44	133447.300	4.0	148217.600	4.0
676.8475	13.01	-.78	133447.300	4.0	148217.600	5.0
676.8657	7.00	-2.44	95475.280	.5	110245.183	.5
676.8700	70.00	-.90	24923.174	0.0	39697.060	0.0
676.9048	24.00	-3.20	47877.550	1.0	62646.600	2.0
676.9089	24.00	-3.11	39158.630	4.0	53927.590	4.0
676.9160	40.00	-.94	12259.943	0.0	27032.825	0.0
676.9181	28.01	-3.89	92373.450	2.5	107142.210	1.5
676.9194	22.00	-4.22	18911.399	2.0	33680.130	3.0
676.9597	7.00	-2.45	95532.120	2.5	110299.974	2.5
676.9629	17.00	-2.37	85735.091	1.5	100502.871	1.5
676.9653	26.00	-3.53	36940.600	2.0	51708.330	2.0
676.9726	23.01	-3.91	22273.540	1.0	37041.110	2.0
676.9941	8.01	-3.13	251220.900	3.5	265988.000	2.5
676.9950	72.00	-.50	27342.899	0.0	42114.057	0.0
677.0221	28.01	-1.53	121561.060	.5	136327.550	1.5
677.0370	73.00	-1.17	23793.968	0.0	38564.210	0.0
677.0772	24.00	-4.68	35862.820	4.0	50628.110	3.0
677.0850	25.00	-2.68	48318.120	.5	63083.240	1.5
677.1033	27.00	-1.94	15184.040	2.5	29948.760	2.5
677.1230	25.01	-3.57	87941.080	4.0	102705.370	3.0
677.1317	8.01	-1.87	251220.900	3.5	265985.000	3.5
677.1350	22.00	-4.50	20795.599	5.0	35559.627	5.0
677.1409	8.01	-1.60	251224.100	2.5	265988.000	2.5
677.1620	28.01	-4.83	116312.340	1.5	131075.780	1.5
677.1648	15.00	-2.35	66360.120	1.5	81123.500	2.5
677.1721	24.00	-1.71	35501.260	3.0	50264.480	3.0
677.1740	73.00	-2.10	9920.875	0.0	24688.128	0.0
677.1850	56.00	.03	22906.736	0.0	37673.749	0.0
677.1999	28.00	-1.79	34408.574	1.0	49171.187	1.0
677.2074	18.01	-2.81	189654.780	2.5	204417.230	1.5
677.2161	25.01	-4.45	87941.080	4.0	102703.340	4.0
677.2170	90.00	-1.07	15405.586	0.0	30171.902	0.0
677.2313	28.00	-.61	29500.690	1.0	44262.619	2.0
677.2336	27.00	-2.49	33439.720	4.5	48201.600	3.5
677.2441	23.00	-2.45	22313.990	5.5	37075.640	4.5
677.2464	10.01	-3.71	279324.890	1.5	294086.490	1.5
677.2547	15.00	-3.09	65787.380	3.5	80548.800	2.5
677.2631	22.00	-3.45	33700.874	4.0	48462.110	5.0
677.2666	22.00	-3.42	34078.580	3.0	48839.740	3.0
677.2786	8.01	-3.18	251224.100	2.5	265985.000	3.5
677.2890	40.00	-1.63	10808.108	0.0	25572.854	0.0
677.2923	25.00	-2.11	47753.990	2.5	62514.590	2.5
677.3088	28.01	-4.43	117074.700	3.5	131834.940	2.5
677.3116	15.00	-4.94	65450.020	1.5	80210.200	.5
677.3354	7.00	-3.02	97805.810	1.5	112565.470	.5
677.3700	6.02	-1.82	308317.000	0.0	323079.980	0.0
677.3980	9.00	-.42	102405.710	2.5	117164.006	2.5
677.4116	24.00	-.30	27500.370	3.0	42258.370	4.0
677.4139	14.02	-1.22	225526.330	3.0	240284.280	2.0
677.4147	22.00	-4.23	15156.787	4.0	29914.720	3.0
677.4250	73.00	-2.43	9678.902	0.0	24440.684	0.0
677.4260	57.01	-2.83	967.890	0.0	15729.650	0.0
677.4309	24.00	-4.35	35870.530	4.0	50628.110	3.0
677.4419	24.01	-4.39	39742.360	2.5	54499.700	1.5
677.4540	46.00	-1.34	24923.174	0.0	39684.324	0.0
677.4561	24.01	-2.89	74718.050	1.5	89475.080	2.5
677.4626	9.02	-.97	426558.910	1.5	441315.800	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
677.4626	25.00	-2.65	45060.810	3.5	59817.700	2.5
677.4649	24.00	-2.62	31352.420	1.0	46109.260	2.0
677.4817	14.00	-2.01	49188.617	2.0	63945.090	3.0
677.4869	28.01	-1.84	92325.850	3.5	107082.210	2.5
677.4943	28.01	-4.63	116275.810	3.5	131032.010	2.5
677.5020	44.00	-1.14	17018.737	0.0	31778.841	0.0
677.5085	24.00	-.41	27500.370	3.0	42256.260	3.0
677.5275	22.00	-4.31	15156.787	4.0	29912.262	3.0
677.5402	23.00	-2.61	17181.980	4.5	31937.180	5.5
677.5868	7.00	-4.12	95532.120	2.5	110286.305	2.5
677.5884	24.00	-.82	27500.370	3.0	42254.520	2.0
677.5930	24.00	-2.42	31355.210	2.0	46109.260	2.0
677.5980	23.02	.34	147169.340	3.5	161923.280	2.5
677.6026	26.02	-4.06	190918.170	3.0	205672.010	4.0
677.6109	24.00	-4.79	33060.740	3.0	47814.400	3.0
677.6306	23.00	-2.50	23353.090	3.5	38106.320	2.5
677.6688	26.02	-1.61	186454.890	5.0	201207.290	4.0
677.6734	13.01	-2.62	132819.700	3.0	147572.000	2.0
677.6826	13.01	-3.45	132819.900	1.0	147572.000	1.0
677.6826	13.01	-3.24	132819.900	1.0	147572.000	0.0
677.6826	13.01	-4.54	132819.900	1.0	147572.000	2.0
677.6826	13.01	-2.98	132819.900	2.0	147572.000	1.0
677.6826	13.01	-3.37	132819.900	2.0	147572.000	2.0
677.7090	7.00	-1.97	95493.660	1.5	110245.183	.5
677.7142	25.00	-4.64	38351.780	.5	53103.190	1.5
677.7198	21.00	-2.32	18000.250	2.5	32751.540	3.5
677.7262	23.00	-2.11	15270.420	1.5	30021.570	.5
677.7390	28.00	-2.03	44475.158	2.0	59226.030	1.0
677.7396	26.00	-2.48	33765.291	2.0	48516.150	1.0
677.7459	26.00	-2.75	33412.706	3.0	48163.427	2.0
677.7474	22.00	-4.36	15220.390	5.0	29971.078	4.0
677.7567	28.00	-2.90	34408.574	1.0	49159.060	2.0
677.7671	24.01	-4.68	74423.840	3.5	89174.100	3.5
677.8002	25.00	-4.44	38351.780	.5	53101.320	.5
677.8015	27.00	-4.50	40827.770	1.5	55577.280	1.5
677.8125	22.00	-3.20	18911.399	2.0	33660.671	1.0
677.8190	62.01	-1.69	11695.340	0.0	26448.541	0.0
677.8250	9.02	-.21	427545.310	1.5	442294.310	1.5
677.8310	90.00	-2.59	3790.903	0.0	18543.843	0.0
677.8314	21.00	-2.60	17947.980	1.5	32696.840	2.5
677.8388	16.01	-2.81	115892.300	.5	130641.000	1.5
677.8402	24.00	-2.90	47942.290	6.0	62690.960	5.0
677.8535	10.01	-4.19	291495.040	2.5	306243.420	2.5
677.8610	62.01	-1.58	10082.190	0.0	24834.477	0.0
677.8783	9.02	-1.80	376879.070	3.5	391626.910	3.5
677.8893	23.00	-7.99	14548.830	2.5	29296.430	2.5
677.8994	29.01	-3.91	115639.020	2.0	130386.400	2.0
677.9004	28.01	-1.92	122441.220	4.5	137188.580	4.5
677.9243	28.01	-2.71	100845.410	.5	115592.250	1.5
677.9275	29.01	-2.44	122867.530	1.0	137614.300	0.0
677.9496	28.01	-2.10	106369.300	1.5	121115.590	1.5
677.9546	14.02	-4.26	227665.090	2.0	242411.270	3.0
677.9629	24.00	-4.03	33040.100	2.0	47786.100	2.0
677.9844	22.00	-5.88	6842.964	5.0	21588.496	4.0
677.9942	6.01	.05	166990.730	1.5	181736.050	2.5
678.0089	24.00	-2.11	33762.560	0.0	48507.560	1.0
678.0121	24.00	-2.97	31364.330	3.0	46109.260	2.0
678.0121	29.01	-1.46	120919.410	1.0	135664.340	1.0
678.0169	7.00	-1.48	95475.280	.5	110220.107	1.5
678.0340	22.00	-4.45	18911.399	2.0	33655.853	2.0
678.0410	90.00	-1.83	8065.752	0.0	22814.123	0.0
678.0461	22.00	-2.75	33980.639	2.0	48724.830	1.0
678.0535	24.00	-1.53	47917.930	2.0	62661.960	3.0
678.0595	6.01	-.35	166967.130	.5	181711.030	1.5
678.0627	24.00	-4.96	35813.730	3.0	50557.560	4.0
678.0686	22.00	-3.14	33980.639	2.0	48724.340	2.0
678.0820	25.02	-3.87	177269.340	1.5	192012.750	1.5
678.0930	18.01	-.34	204417.230	1.5	219160.400	2.5
678.0953	28.01	-3.88	116893.980	2.5	131637.100	3.5
678.1100	17.01	-3.90	147053.700	2.0	161796.500	3.0
678.1170	62.01	-2.22	7985.094	0.0	22731.812	0.0
678.1192	28.01	-1.79	106369.300	1.5	121111.900	.5
678.1450	12.01	-1.20	97455.120	.5	112197.160	1.5
678.1475	14.00	-2.11	49028.294	0.0	63770.280	1.0
678.1551	25.02	-3.88	121117.140	3.5	135858.960	2.5
678.1868	15.00	-2.70	65373.470	.5	80114.600	1.5
678.1892	26.02	-4.80	136793.820	2.0	151534.900	2.0
678.2030	21.00	-4.70	25014.150	2.5	39754.930	2.5
678.2211	14.00	-4.13	49933.775	3.0	64674.160	4.0
678.2223	21.00	-2.99	17918.850	.5	32659.210	1.5
678.2246	26.02	-4.79	136793.820	2.0	151534.130	3.0
678.2342	8.01	-2.37	251220.900	3.5	265961.000	2.5
678.2356	25.00	-4.67	47774.520	3.5	62514.590	2.5
678.2495	28.00	-1.04	43089.636	5.0	57829.405	5.0
678.2540	63.00	-.39	15970.189	0.0	30713.928	0.0
678.2850	92.00	-2.43	4355.506	0.0	19098.571	0.0
678.2955	27.00	-3.83	33462.830	2.5	48201.600	3.5
678.3157	28.01	-3.16	103025.580	2.5	117763.910	1.5
678.3273	26.00	-4.38	20641.110	4.0	35379.189	5.0
678.3390	64.00	-1.00	11775.998	0.0	26517.890	0.0
678.3458	22.00	-1.11	20209.444	2.0	34947.120	1.0
678.3659	24.01	-4.90	74318.860	2.5	89056.100	2.5
678.3732	26.02	-4.88	136797.050	3.0	151534.130	3.0
678.3816	8.01	-3.07	251224.100	2.5	265961.000	2.5
678.3908	6.01	.33	167035.710	2.5	181772.410	3.5
678.3999	25.00	-2.32	30419.610	2.5	45156.110	2.5
678.4060	9.02	-2.14	426431.030	.5	441167.400	.5
678.4220	26.01	-3.46	54870.620	2.5	69606.640	3.5
678.4410	18.01	-2.94	190507.360	1.5	205242.970	.5
678.4499	17.00	-2.80	83364.927	.5	98100.340	.5
678.4520	46.00	.17	33876.158	0.0	48615.594	0.0
678.4685	14.00	-1.82	50189.389	2.0	64924.400	3.0
678.4814	27.00	-2.30	33466.870	3.5	48201.600	3.5
678.4971	24.00	-3.51	36552.130	3.0	51286.520	2.0
678.4985	23.00	-2.25	8476.200	1.5	23210.560	2.5
678.5040	28.01	-4.04	115108.090	2.5	129842.330	2.5
678.5137	28.01	-2.81	100475.820	3.5	115209.850	3.5
678.5233	28.01	-4.74	121115.590	1.5	135849.410	2.5
678.5247	22.01	-1.73	25193.040	2.5	39926.830	2.5
678.5325	9.02	-1.26	427545.310	1.5	442278.930	2.5
678.5565	29.01	-3.95	133826.200	2.0	148559.300	2.0
678.5579	7.01	-1.91	187437.560	1.0	202170.630	1.0
678.5620	15.00	-2.95	65450.020	1.5	80183.000	2.5
678.5754	26.00	-2.85	36975.640	3.0	51708.330	2.0
678.5777	23.02	-1.14	145647.000	1.5	160379.640	2.5
678.5856	26.00	-2.45	32873.623	4.0	47606.092	5.0
678.5980	24.00	-3.73	33040.100	2.0	47772.300	1.0
678.6156	22.00	-3.70	27025.652	4.0	41757.470	3.0
678.6242	24.00	-2.48	47942.290	6.0	62673.920	6.0
678.6482	29.01	-2.27	108014.660	3.0	122745.770	2.0
678.6772	28.01	-2.04	100389.520	2.5	115120.000	2.5
678.6809	25.00	-2.71	30425.710	1.5	45156.110	2.5
678.6836	26.00	-1.68	33801.555	2.0	48531.896	3.0
678.6878	25.02	-3.85	177185.180	.5	191915.430	.5
678.6931	14.00	-3.39	49933.775	3.0	64663.910	4.0
678.7030	15.00	-1.31	65787.380	3.5	80517.300	2.5
678.7099	28.01	-1.15	121561.060	.5	136290.830	.5
678.7150	40.01	-.86	19922.407	0.0	34656.132	0.0
678.7210	6.01	-.35	166967.130	.5	181696.660	.5
678.7230	44.00	-1.73	15405.586	0.0	30139.137	0.0
678.7265	28.01	-3.97	121325.090	2.5	136054.500	1.5
678.7279	23.02	-.46	147606.500	3.5	162335.880	3.5
678.7357	20.01	-1.81	74484.920	.5	89214.130	.5
678.7389	27.00	-3.49	28470.510	1.5	43199.650	2.5
678.7468	25.00	-3.34	47903.800	4.5	62632.770	3.5
678.7480	63.00	-.75	15808.874	0.0	30541.882	0.0
678.7523	24.00	-3.94	31352.420	1.0	46081.270	0.0
678.7606	24.00	-1.65	47917.930	2.0	62646.600	2.0
678.7620	23.01	-3.15	32299.240	1.0	47027.880	0.0
678.7662	17.00	-2.58	85442.430	1.5	100170.980	1.5
678.7805	12.01	-1.90	97468.920	1.5	112197.160	1.5
678.7851	12.01	-.94	97468.920	1.5	112197.060	2.5
678.7980	42.00	-1.20	26133.037	0.0	40864.960	0.0
678.8001	17.00	-2.72	85244.330	.5	99972.144	.5
678.8113	9.02	-2.57	426431.030	.5	441158.600	1.5
678.8497	22.00	-6.34	6742.757	4.0	21469.494	3.0
678.8527	15.00	-2.65	66343.330	.5	81070.000	1.5
678.8630	7.00	-2.16	95493.660	1.5	110220.107	1.5
678.8832	27.00	-3.15	34352.420	1.5	49078.430	1.5
678.8940	42.00	-1.14	26616.982	0.0	41346.822	0.0
678.8990	73.00	-2.13	12179.286	0.0	26909.018	0.0
678.9132	24.00	-3.94	33060.740	3.0	47786.100	2.0
678.9150	24.00	-1.83	31009.000	3.0	45734.320	2.0
678.9270	72.00	-2.41	4516.821	0.0	19245.945	0.0
678.9430	28.00	-3.66	44314.980	4.0	59039.693	4.0
678.9450	24.00	-2.33	31352.420	1.0	46077.090	1.0
678.9519	24.00	-3.94	42648.260	3.0	57372.780	4.0
678.9989	25.00	-2.02	45060.810	3.5	59784.310	3.5
679.0000	8.04	-.70	689700.000	0.0	704427.541	0.0
679.0000	62.01	-1.73	7420.492	0.0	22148.033	0.0
679.0060	73.00	-3.36	5968.656	0.0	20696.066	0.0
679.0082	15.00	-1.64	65585.000	2.5	80308.300	2.5
679.0165	27.00	-2.45	36329.860	2.5	51052.980	3.5
679.0178	23.02	-.56	146846.320	1.5	161569.410	1.5
679.0299	17.00	-4.07	84988.480	1.5	99711.309	.5
679.0300	92.00	-1.34	7581.807	0.0	22308.697	0.0
679.0395	23.00	-2.34	23519.840	4.5	38242.460	3.5
679.0412	9.00	-4.40	117872.916	1.5	132595.500	2.5
679.0511	28.01	-3.76	113172.960	4.5	127895.330	3.5
679.0529	28.01	-3.28	115120.000	2.5	129842.330	2.5
679.0532	9.00	-2.59	118936.797	1.5	133659.120	.5
679.0637	14.00	-1.44	49028.294	0.0	63750.390	1.0
679.0737	24.00	-3.07	31355.210	2.0	46077.090	1.0
679.0850	40.00	-1.32	12663.231	0.0	27388.928	0.0
679.1016	20.00	-2.27	31539.495	1.0	46260.770	2.0
679.1050	38.00	-.72	14195.724	0.0	28920.987	0.0
679.1142	29.01	-4.31	115665.400	1.0	130386.400	2.0
679.1208	28.00	-1.92	43089.636	5.0	57810.494	4.0
679.1230	90.00	-1.99	8711.012	0.0	23435.885	0.0
679.1466	6.01	-.25	166990.730	1.5	181711.030	1.5
679.1530	76.00	-2.72	8630.355	0.0	23354.578	0.0
679.1893	7.00	-2.03	95475.280	.5	110194.654	1.5
679.1940	17.00	-3.02	84688.637	.5	99407.907	.5
679.2118	20.00	-2.50	31539.495	1.0	46258.380	1.0
679.2187	7.00	-4.47	95493.660	1.5	110212.396	2.5
679.2245	26.02	-3.83	151534.130	3.0	166252.740	3.0
679.2264	28.01	-3.32	100389.520	2.5	115108.090	2.5
679.2273	21.00	-2.98	17918.850	.5	32637.400	.5
679.2296	27.00	-1.49	32027.500	3.5	46746.000	2.5
679.2550	62.01	-1.77	12501.916	0.0	27223.928	0.0
679.2564	24.00	-4.90	31987.060	4.0	46704.980	5.0
679.2601	26.02	-4.35	151534.900	2.0	166252.740	3.0
679.2614	9.02	-.90	426558.910	1.5	441276.720	2.5
679.2656	28.01	-2.38	113177.610	3.5	127895.330	3.5
679.2743	15.00	-2.01	65373.470	.5	80091.000	.5
679.2951	25.02	-2.93	216670.580	4.5	231387.660	3.5
679.3244	26.00	-1.71	32873.623	4.0	47590.070	4.0
679.3316	25.00	-2.62	51787.920	.5	66504.210	1.5
679.3330	14.02	-.80	234387.640	1.0	249103.900	2.0
679.3710	39.00	-2.32	483.945	0.0	15203.443	0.0
679.3770	71.00	-3.04	4113.534	0.0	18832.902	0.0
679.3834	7.00	-1.11	95532.120	2.5	110247.288	3.5
679.3939	26.02	-4.06	151537.800	4.0	166252.740	3.0
679.4143	15.00	-2.60	65585.000	2.5	80299.500	1.5
679.4156	26.01	-7.14	27620.390	2.5	42334.860	2.5
679.4200	62.01	-1.02	11695.340	0.0	26413.776	0.0
679.4235	30.02	-2.54	285411.700	3.0	300126.000	4.0
679.4299	24.01	-4.37	52298.120	3.5	67012.280	2.5
679.4313	20.02	-4.10	371061.370	4.0	385775.500	4.0
679.4323	18.01	-1.38	190507.360	1.5	205221.470	1.5
679.4396	28.01	-3.94	116087.380	4.5	130801.330	4.5
679.4452	23.01	-3.63	32040.760	2.0	46754.590	1.0
679.4548	28.00	-1.99	44475.158	2.0	59188.780	3.0
679.4558	28.01	-4.57	101754.800	2.5	116468.400	1.5
679.4576	26.00	-2.56	39969.830	3.0	54683.390	4.0
679.4697	22.01	-4.57	24961.340	1.5	39674.640	.5
679.4844	24.00	-2.64	42648.260	3.0	57361.240	3.0
679.4881	28.01	-2.31	113172.960	4.5	127885.860	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
679.4932	21.00	-2.32	21032.780	2.5	35745.570	2.5
679.5112	27.00	-3.92	36329.860	2.5	51042.260	2.5
679.5149	22.00	-4.41	18145.400	2.0	32857.721	3.0
679.5351	17.00	-3.22	83130.900	1.5	97842.783	1.5
679.5410	39.01	-1.55	13953.751	0.0	28669.567	0.0
679.5521	9.00	-1.09	102680.435	1.5	117391.950	.5
679.5533	28.01	-2.19	99340.550	3.5	114052.040	3.5
679.5551	22.00	-2.89	26657.409	4.0	41368.860	4.0
679.5653	21.00	-2.87	17947.980	1.5	32659.210	1.5
679.5788	14.00	-1.98	48102.323	2.0	62813.260	1.0
679.5967	22.01	-5.89	15257.530	4.5	29968.080	4.5
679.6013	26.00	-2.62	33765.291	2.0	48475.740	3.0
679.6091	18.01	-2.20	190511.190	2.5	205221.470	1.5
679.6125	26.00	-2.28	33412.706	3.0	48122.913	3.0
679.6244	10.01	-3.00	303071.840	2.5	317781.790	1.5
679.6276	15.00	-2.73	66360.120	1.5	81070.000	1.5
679.6369	14.00	-1.81	49060.601	1.0	63770.280	1.0
679.6378	28.01	-4.45	120268.810	3.5	134978.470	2.5
679.6401	24.00	-1.29	35501.260	3.0	50210.870	4.0
679.6415	10.01	-4.14	303071.840	2.5	317781.420	2.5
679.6544	8.01	-2.09	251220.900	3.5	265930.200	4.5
679.6550	28.00	-2.78	43258.792	4.0	57968.080	3.0
679.6650	7.01	-3.81	187461.560	2.0	202170.630	1.0
679.6650	45.00	.46	35166.679	0.0	49879.810	0.0
679.6655	15.00	-3.69	66813.040	1.5	81522.100	2.5
679.6680	40.00	-1.76	14276.381	0.0	28989.447	0.0
679.6730	57.00	-2.94	0.000	0.0	14712.958	0.0
679.6752	26.02	-4.46	117950.320	4.0	132659.170	4.0
679.6794	28.01	-3.87	92373.450	2.5	107082.210	2.5
679.7029	28.01	-4.90	113177.610	3.5	127885.860	4.5
679.7069	22.00	-3.63	26772.965	5.0	41481.130	5.0
679.7219	25.01	-3.37	87995.500	5.0	102703.340	4.0
679.7473	27.00	-3.94	39649.160	3.5	54356.450	4.5
679.7806	17.00	-2.89	84648.100	2.5	99354.670	1.5
679.7838	28.01	-4.55	120271.970	2.5	134978.470	2.5
679.7912	28.01	-4.27	121325.090	2.5	136031.430	2.5
679.8019	18.00	-4.10	111818.090	1.0	126524.200	0.0
679.8074	24.00	-2.16	31028.330	2.0	45734.320	2.0
679.8102	6.01	-1.05	166990.730	1.5	181696.660	.5
679.8134	14.02	-1.29	234387.640	1.0	249093.500	1.0
679.8402	28.00	-3.18	36600.805	2.0	51306.085	3.0
679.8439	24.00	-1.49	47985.760	5.0	62690.960	5.0
679.8479	20.00	-4.59	21849.634	2.0	36554.749	1.0
679.8509	10.02	-2.11	374434.000	2.0	389139.050	3.0
679.8689	25.02	-4.75	177687.540	3.5	192392.200	3.5
679.8711	22.00	-2.01	27480.047	3.0	42184.660	4.0
679.8754	25.00	-1.13	47774.520	3.5	62479.040	4.5
679.8846	28.01	-2.73	105439.850	1.5	120144.170	2.5
679.8860	10.01	-4.75	302192.920	4.5	316897.210	3.5
679.8888	23.01	-5.99	20242.320	4.0	34946.550	4.0
679.8985	24.00	-2.38	35398.020	4.0	50102.040	3.0
679.9001	12.00	-1.99	46403.065	2.0	61107.050	2.0
679.9001	12.00	-2.62	46403.065	2.0	61107.050	3.0
679.9001	12.00	-.56	46403.065	2.0	61107.050	3.0
679.9041	8.01	-2.46	251224.100	2.5	265928.000	1.5
679.9182	28.00	-3.22	44336.100	4.0	59039.693	4.0
679.9270	73.00	-3.36	5968.656	0.0	20676.117	0.0
679.9286	18.01	-1.86	159706.460	.5	174409.830	1.5
679.9359	23.02	-.96	145978.270	2.5	160681.480	3.5
679.9392	27.00	-3.88	39649.160	3.5	54352.300	3.5
679.9610	70.00	-.33	17905.969	0.0	32612.695	0.0
679.9697	22.01	-7.04	15265.600	3.5	29968.080	4.5
679.9739	24.00	-3.12	42648.260	3.0	57350.650	2.0
679.9854	26.01	-3.18	54904.500	3.5	69606.640	3.5
679.9880	42.00	-1.02	26616.982	0.0	41323.124	0.0
679.9891	10.01	-2.67	302961.070	1.5	317663.130	1.5
680.0261	24.00	-2.48	33934.880	3.0	48636.140	3.0
680.0321	24.00	-3.00	33113.270	4.0	47814.400	3.0
680.0382	30.02	-1.34	218909.400	1.0	233610.400	2.0
680.0384	7.00	-2.31	95493.660	1.5	110194.654	1.5
680.0516	28.01	-3.05	115081.360	4.5	129782.070	3.5
680.0596	14.00	-1.64	48102.323	2.0	62802.860	3.0
680.0617	24.00	-2.72	33935.650	2.0	48636.140	3.0
680.0687	6.01	-.32	167035.710	2.5	181736.050	2.5
680.0799	22.00	-2.44	26494.322	2.0	41194.420	3.0
680.0856	28.00	-1.84	43089.636	5.0	57789.611	4.0
680.1205	23.01	-2.58	32040.760	2.0	46739.980	2.0
680.1261	30.02	-1.13	219684.900	3.0	234384.000	3.0
680.1870	26.00	-5.47	12968.552	2.0	27666.334	1.0
680.1899	25.00	-3.44	45130.160	4.5	59827.880	5.5
680.2066	28.01	-1.92	106620.530	3.5	121317.890	3.5
680.2367	28.01	-4.16	115085.360	3.5	129782.070	3.5
680.2422	21.00	-2.93	18000.250	2.5	32696.840	2.5
680.2478	24.00	-1.62	47974.530	3.0	62671.000	4.0
680.2505	28.00	-2.67	43933.428	2.0	58629.840	2.0
680.2510	30.02	-3.03	285411.700	3.0	300108.100	3.0
680.2557	20.02	-4.22	371061.300	3.0	385757.600	3.0
680.2620	42.01	-1.07	26713.694	0.0	40913.912	0.0
680.2639	28.00	-3.25	43933.428	2.0	58629.550	3.0
680.2699	14.00	-3.45	49188.617	2.0	63884.610	1.0
680.2720	63.00	.03	13953.751	0.0	28653.753	0.0
680.2853	26.00	-3.89	40052.080	2.0	54747.740	1.0
680.2853	25.02	-4.24	177477.230	2.5	192172.890	2.5
680.2890	26.02	-4.88	132659.170	4.0	147354.750	5.0
680.2960	62.00	-1.74	806.575	0.0	15506.059	0.0
680.3098	23.00	-1.60	17242.050	5.5	31937.180	5.5
680.3150	39.00	-1.13	19035.175	0.0	33734.248	0.0
680.3232	18.02	-4.25	231341.800	2.0	246036.640	3.0
680.3271	26.00	-3.46	36766.950	3.0	51461.707	4.0
680.3279	24.00	-3.64	35862.820	4.0	50557.560	4.0
680.3511	22.00	-3.13	31373.801	3.0	46068.040	4.0
680.3663	10.01	-3.80	303508.480	1.5	318202.390	2.5
680.3672	10.01	-2.76	303508.480	1.5	318202.370	1.5
680.3686	23.00	-4.94	27470.880	3.5	42164.740	3.5
680.3894	14.00	-2.24	50189.389	2.0	64882.800	2.0
680.3896	17.00	-2.90	84988.480	1.5	99681.887	1.5
680.3998	26.00	-2.39	37521.144	2.0	52214.330	1.0
680.4144	10.01	-2.57	303509.520	2.5	318202.390	2.5
680.4154	10.01	-3.72	303509.520	2.5	318202.370	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
680.4300	26.00	-2.06	36975.640	3.0	51668.175	4.0
680.4371	20.01	-1.51	74521.750	1.5	89214.130	.5
680.4552	18.02	-4.59	231341.800	2.0	246033.790	2.0
680.4760	24.00	-4.36	35572.940	2.0	50264.480	3.0
680.5071	24.00	-2.25	31028.330	2.0	45719.200	1.0
680.5280	74.00	-2.13	19115.832	0.0	33810.305	0.0
680.5288	23.02	-.86	146549.620	4.5	161240.020	5.5
680.5572	14.00	-2.11	49060.601	1.0	63750.390	1.0
680.5715	15.00	-3.01	66544.120	2.5	81233.600	3.5
680.5743	21.00	-3.68	17947.980	1.5	32637.400	.5
680.6252	24.00	-4.68	36558.550	2.0	51246.870	1.0
680.6312	29.01	-1.84	119039.680	2.0	133727.870	2.0
680.6326	24.00	-.52	47985.760	5.0	62673.920	6.0
680.6377	23.00	-8.58	14514.750	1.5	29202.800	1.5
680.6407	7.00	-2.86	95532.120	2.5	110220.107	1.5
680.6428	23.01	-3.05	32420.040	0.0	47107.980	1.0
680.6586	15.00	-2.66	66834.500	1.5	81522.100	2.5
680.6610	76.00	-2.01	15324.929	0.0	30016.530	0.0
680.6665	24.00	-2.86	47974.530	3.0	62661.960	3.0
680.6839	9.00	-1.61	118936.797	1.5	133623.850	1.5
680.6850	24.00	-4.97	35870.530	4.0	50557.560	4.0
680.6851	26.00	-3.83	21999.132	4.0	36686.159	4.0
680.7003	14.00	-3.39	49399.670	1.0	64086.370	1.0
680.7096	28.02	-3.31	121412.200	2.0	136098.700	1.0
680.7142	30.02	-3.64	285411.700	3.0	300098.100	4.0
680.7473	22.00	-2.53	27498.975	3.0	42184.660	4.0
680.7499	27.00	-2.18	36875.130	1.5	51560.760	2.5
680.7680	24.00	-1.67	47985.760	5.0	62671.000	4.0
680.7981	25.01	-3.60	87995.500	5.0	102680.090	5.0
680.8310	62.00	.15	15405.586	0.0	30093.519	0.0
680.8505	10.01	-2.24	303508.480	1.5	318191.940	2.5
680.8533	18.01	-1.93	144709.910	.5	159393.310	1.5
680.8723	20.02	-1.29	344257.920	1.0	358940.910	0.0
680.8792	24.00	-4.36	35501.260	3.0	50184.100	2.0
680.8860	57.01	-3.44	967.890	0.0	15654.636	0.0
680.8899	24.00	-2.97	33762.740	6.0	48445.350	6.0
680.8959	27.00	-2.06	32841.990	4.5	47524.470	4.5
680.8983	10.01	-2.11	303509.520	2.5	318191.950	3.5
680.8987	10.01	-3.43	303509.520	2.5	318191.940	2.5
680.9516	15.00	-2.63	67113.820	2.5	81795.100	3.5
680.9553	29.01	-1.90	108335.430	2.0	123016.630	3.0
680.9600	13.01	-.92	132819.700	3.0	147500.800	4.0
680.9627	23.01	-6.11	22273.540	1.0	36954.580	1.0
680.9641	29.01	-1.16	121078.960	3.0	135759.970	2.0
680.9878	13.01	-2.35	132819.700	3.0	147500.200	3.0
680.9971	13.01	-1.45	132819.900	2.0	147500.200	3.0
680.9976	7.01	-.63	188857.370	2.0	203537.660	1.0
680.9982	7.00	-1.99	95532.120	2.5	110212.396	2.5
680.9998	24.00	-2.99	31377.960	4.0	46058.200	4.0
681.0054	23.02	-3.44	146347.200	5.5	161027.320	4.5
681.0064	13.01	-3.53	132819.700	3.0	147499.800	2.0
681.0086	17.00	-1.57	83364.927	.5	98044.980	1.5
681.0157	13.01	-1.98	132819.900	2.0	147499.800	2.0
681.0157	13.01	-1.25	132819.900	1.0	147499.800	2.0
681.0193	25.00	-.84	48225.990	3.5	62905.810	2.5
681.0216	24.01	-3.14	69638.770	1.5	84318.540	1.5
681.0234	26.00	-1.30	37157.546	2.0	51837.279	3.0
681.0342	9.02	-2.09	425390.010	.5	440069.510	1.5
681.0421	27.00	-3.45	32027.500	3.5	46706.830	3.5
681.0592	14.02	-.35	234442.180	2.0	249121.140	3.0
681.0633	8.01	-2.29	231350.080	2.5	246028.950	3.5
681.0838	14.02	-.99	234415.070	0.0	249093.500	1.0
681.1093	28.01	-4.65	116087.380	4.5	130765.260	3.5
681.1432	18.01	-3.31	172213.800	1.5	186890.950	2.5
681.1516	25.00	-4.35	51718.220	1.5	66395.190	2.5
681.1591	17.00	-2.31	83130.900	1.5	97807.707	2.5
681.1681	9.00	-2.38	118936.797	1.5	133613.410	.5
681.1706	24.00	-.49	48014.400	4.0	62690.960	5.0
681.2030	42.00	-1.07	26213.694	0.0	40893.606	0.0
681.2198	14.02	-1.13	234428.400	1.0	249103.900	2.0
681.2281	6.01	-1.28	167035.710	2.5	181711.030	1.5
681.2354	14.00	-2.82	49188.617	2.0	63863.780	2.0
681.2374	23.00	-2.47	8412.940	.5	23088.060	1.5
681.2481	23.02	-1.60	145647.000	1.5	160321.890	2.5
681.2639	26.00	-4.62	37162.729	3.0	51837.279	3.0
681.2713	26.01	-4.38	50157.610	4.5	64832.000	4.5
681.2756	22.00	-6.65	14028.470	2.0	28702.768	3.0
681.2829	28.01	-2.29	106620.530	3.5	121294.670	4.5
681.2857	12.01	-1.54	97455.120	.5	112129.200	.5
681.2945	23.02	-2.11	145902.730	4.5	160576.620	3.5
681.2947	22.00	-4.24	29907.273	2.0	44581.160	2.0
681.2980	92.00	-2.73	4355.506	0.0	19033.371	0.0
681.3015	24.00	-2.66	31048.850	1.0	45722.590	0.0
681.3024	15.00	-1.45	65787.380	3.5	80461.100	3.5
681.3164	9.02	-.86	426733.040	2.5	441406.460	3.5
681.3250	73.00	-1.86	9194.957	0.0	23872.240	0.0
681.3284	24.00	-3.75	35884.400	5.0	50557.560	4.0
681.3410	75.00	-1.47	14115.066	0.0	28792.005	0.0
681.3493	25.02	-4.47	121197.050	2.5	135869.760	3.5
681.3510	44.00	-1.08	22180.818	0.0	36857.541	0.0
681.3595	25.00	-2.06	47753.990	2.5	62426.480	3.5
681.3605	28.00	-.48	43089.636	5.0	57762.106	6.0
681.3660	57.01	-1.05	22422.791	0.0	37099.191	0.0
681.3790	24.00	-2.10	47974.530	3.0	62646.600	2.0
681.3869	24.00	-3.78	29420.900	1.0	44092.800	0.0
681.3893	23.00	-2.73	19023.470	4.5	33695.320	5.5
681.3894	14.00	-1.67	48264.292	3.0	62936.140	3.0
681.4148	30.02	-3.23	285411.700	3.0	300083.000	3.0
681.4227	25.00	-2.38	45060.810	3.5	59731.940	4.5
681.4380	17.01	-2.53	147125.700	3.0	161796.500	3.0
681.4431	6.00	-3.50	73975.910	0.0	88646.600	1.0
681.4560	64.00	-1.62	7178.519	0.0	21852.981	0.0
681.4589	24.00	-2.52	31048.850	1.0	45719.200	1.0
681.4622	28.01	-3.63	115565.980	2.5	130236.260	2.5
681.4692	28.01	-4.83	116087.380	4.5	130757.510	4.5
681.4747	26.00	-4.65	26224.961	3.0	40894.972	2.0
681.4933	28.01	-3.36	113321.950	4.5	127991.560	3.5
681.4942	27.00	-1.88	15774.040	1.5	30443.630	1.5
681.4950	74.00	-1.61	22342.133	0.0	37015.755	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
681.5160	39.00	-.87	19115.832	0.0	33789.002	0.0
681.5254	28.01	-2.22	104646.520	3.5	119315.440	2.5
681.5264	22.00	-2.92	29912.262	3.0	44581.160	2.0
681.5607	28.01	-4.04	100332.090	4.5	115000.250	3.5
681.5672	24.00	-3.43	29420.900	1.0	44088.920	1.0
681.5853	26.01	-4.53	72043.210	1.5	86710.840	1.5
681.6020	60.01	-2.39	5968.656	0.0	20639.974	0.0
681.6060	63.00	.16	15808.874	0.0	30480.106	0.0
681.6234	26.02	-4.71	190425.720	5.0	205092.530	4.0
681.6406	22.00	-3.61	29914.720	3.0	44581.160	2.0
681.6432	28.00	-2.66	44206.185	3.0	58872.570	4.0
681.6443	23.01	-5.88	20280.190	5.0	34946.550	4.0
681.6490	64.00	-2.13	967.890	0.0	15638.197	0.0
681.6595	17.00	-3.29	84688.637	.5	99354.670	1.5
681.6843	13.01	-.62	105424.300	0.0	120089.800	1.0
681.6992	28.01	-3.50	116468.400	1.5	131133.580	2.5
681.7029	14.02	-1.59	234428.400	1.0	249093.500	1.0
681.7034	29.01	-1.31	136754.110	2.0	151419.200	3.0
681.7201	28.01	-4.91	121385.800	1.5	136050.530	2.5
681.7271	15.00	-1.89	65450.020	1.5	80114.600	1.5
681.7354	30.02	-3.78	285411.700	3.0	300076.100	2.0
681.7373	18.01	-4.60	187589.230	2.5	202253.590	1.5
681.7379	26.00	-4.28	36686.159	4.0	51350.505	4.0
681.7415	25.02	-3.61	121197.050	2.5	135861.320	1.5
681.7443	10.01	-3.96	303527.740	4.5	318191.950	3.5
681.7541	8.03	-.11	615431.000	2.5	630095.000	3.5
681.7703	28.01	-3.40	116087.380	4.5	130751.030	5.5
681.7727	10.01	-4.46	279422.890	.5	294086.490	1.5
681.7815	10.01	-4.06	303528.530	3.5	318191.940	2.5
681.7954	6.00	-3.98	73975.910	0.0	88639.020	1.0
681.8137	22.00	-3.33	21469.494	3.0	36132.210	4.0
681.8282	18.00	-3.66	107131.755	1.0	121794.158	0.0
681.8290	92.00	-2.10	3790.903	0.0	18457.337	0.0
681.8377	18.01	-2.28	157673.320	2.5	172335.520	2.5
681.8414	14.01	-.51	103861.000	.5	118523.120	1.5
681.8530	18.01	-2.94	158167.710	1.5	172829.580	1.5
681.8568	28.01	-3.37	103653.030	3.5	118314.820	2.5
681.8600	14.02	-1.11	234442.180	2.0	249103.900	2.0
681.8749	27.00	-4.45	40621.620	1.5	55283.020	2.5
681.8791	24.00	-2.11	33897.260	1.0	48558.570	2.0
681.8940	72.00	-1.60	8872.327	0.0	23537.363	0.0
681.8949	28.01	-4.26	121325.090	2.5	135986.060	3.5
681.8949	20.02	-1.47	346692.340	0.0	361353.310	1.0
681.8968	14.00	-2.65	49060.601	1.0	63721.530	2.0
681.9000	8.04	-1.18	689700.000	0.0	704364.907	0.0
681.9010	26.00	-4.36	34636.820	2.0	49297.660	1.0
681.9075	23.01	-4.03	36425.070	4.0	51085.770	3.0
681.9112	23.00	-6.27	13801.530	1.5	28462.150	2.5
681.9152	22.00	-4.70	15108.121	3.0	29768.655	2.0
681.9270	12.01	-1.23	97468.920	1.5	112129.200	.5
681.9401	24.00	-3.54	29420.900	1.0	44080.900	2.0
681.9526	21.00	-.86	21085.840	3.5	35745.570	2.5
681.9526	27.00	-2.29	28470.510	1.5	43130.240	.5
681.9604	26.00	-2.97	33095.922	4.0	47755.485	3.0
681.9698	24.00	-3.72	31048.000	7.0	45707.360	6.0
681.9884	21.00	-3.89	18000.250	2.5	32659.210	1.5
682.0066	26.00	-4.69	44166.240	3.0	58824.810	2.0
682.0121	22.00	-4.87	20795.599	5.0	35454.051	4.0
682.0280	74.00	-1.94	19680.435	0.0	34342.590	0.0
682.0315	28.00	-4.15	15734.018	1.0	30392.052	1.0
682.0317	24.00	-4.61	31049.330	6.0	45707.360	6.0
682.0331	29.01	-4.06	133984.600	3.0	148642.600	2.0
682.0368	26.00	-1.33	37409.530	1.0	52067.450	2.0
682.0382	28.01	-2.47	119315.440	2.5	133973.330	2.5
682.0758	22.00	-6.90	13981.750	1.0	28638.832	2.0
682.0760	92.00	-1.51	4194.191	0.0	18855.314	0.0
682.0829	23.02	-1.36	146223.050	3.5	160879.980	4.5
682.0895	14.00	-2.10	48264.292	3.0	62921.080	2.0
682.0910	62.00	-.17	14276.381	0.0	28937.181	0.0
682.0931	28.01	-4.54	53037.930	2.5	67694.640	2.5
682.0931	28.01	-4.11	121862.570	3.5	136519.280	4.5
682.0982	24.00	-1.61	48014.400	4.0	62671.000	4.0
682.1015	10.01	-3.92	303527.740	4.5	318184.270	4.5
682.1020	10.01	-4.55	303527.740	4.5	318184.260	3.5
682.1267	10.01	-2.27	303527.740	4.5	318183.730	5.5
682.1285	10.01	-3.00	303527.740	4.5	318183.690	4.5
682.1355	29.01	-4.29	133826.200	2.0	148482.000	3.0
682.1383	10.01	-2.35	303528.530	3.5	318184.270	4.5
682.1388	10.01	-3.12	303528.530	3.5	318184.260	3.5
682.1430	26.00	-4.69	35767.546	4.0	50423.185	4.0
682.1652	10.01	-4.91	303528.530	3.5	318183.690	4.5
682.1727	13.01	-3.38	133435.000	2.0	148090.000	2.0
682.1727	13.01	-2.65	133435.000	2.0	148090.000	1.0
682.1727	13.01	-4.93	133435.000	2.0	148090.000	3.0
682.1848	28.00	-3.38	43933.428	2.0	58588.168	3.0
682.1927	22.00	-4.41	12118.394	4.0	26772.965	5.0
682.1950	10.01	-4.33	292033.150	2.5	306687.670	3.5
682.1993	24.00	-4.52	50057.610	2.0	64712.040	3.0
682.2046	26.00	-4.78	20037.815	0.0	34692.130	1.0
682.2123	25.00	-1.60	45130.160	4.5	59784.310	3.5
682.2207	23.00	-7.43	14548.830	2.5	29202.800	1.5
682.2276	29.01	-1.70	136765.380	4.0	151419.200	3.0
682.2286	14.00	-1.09	49060.601	1.0	63714.400	2.0
682.2733	9.02	-.96	426733.040	2.5	441385.880	1.5
682.3092	14.00	-3.64	47284.061	1.0	61936.130	1.0
682.3129	26.02	-3.27	184951.620	3.0	199603.610	4.0
682.3143	25.00	-1.86	47774.520	3.5	62426.480	3.5
682.3184	29.01	.22	136725.930	5.0	151377.800	6.0
682.3403	13.01	-.14	105438.400	1.0	120089.800	1.0
682.3441	14.02	-2.29	234442.180	2.0	249093.500	1.0
682.3632	28.01	-3.14	121042.520	1.5	135693.430	2.5
682.3715	26.01	-5.00	48039.230	2.5	62689.960	2.5
682.3780	57.00	-1.10	6936.547	0.0	21591.181	0.0
682.3880	44.00	.06	29520.652	0.0	44175.071	0.0
682.4170	44.00	.07	28310.790	0.0	42964.587	0.0
682.4200	29.01	-.98	136754.110	2.0	151403.800	2.0
682.4209	23.01	-3.00	32040.760	2.0	46690.430	1.0
682.4242	13.01	-2.48	133440.400	3.0	148090.000	2.0
682.4242	13.01	-3.38	133440.400	3.0	148090.000	3.0
682.4321	10.01	-4.98	302247.780	3.5	316897.210	3.5
682.4344	24.00	-3.98	50102.040	3.0	64751.420	4.0
682.4670	22.00	-4.13	33680.130	3.0	48328.810	4.0
682.4797	26.00	-2.52	40231.312	2.0	54879.720	2.0
682.4852	29.01	-.46	136754.110	2.0	151402.400	3.0
682.5192	24.00	-1.42	48014.400	4.0	62661.960	3.0
682.5558	9.00	-1.29	118936.797	1.5	133583.570	2.5
682.5630	42.00	-.51	29923.940	0.0	44574.602	0.0
682.5640	29.01	-3.09	133984.600	3.0	148631.200	3.0
682.5747	29.01	-1.59	136725.930	5.0	151372.300	5.0
682.5821	24.00	-4.12	39158.630	4.0	53804.840	3.0
682.5837	14.00	-2.04	48020.074	1.0	62666.250	1.0
682.5877	25.02	-3.68	177269.340	1.5	191915.430	.5
682.6031	22.00	-2.23	34078.580	3.0	48724.340	2.0
682.6092	28.01	-4.64	121385.800	1.5	136031.430	2.5
682.6227	7.01	-2.50	174212.030	2.0	188857.370	2.0
682.6245	28.01	-3.33	112686.300	2.5	127331.600	2.5
682.6315	24.00	-4.07	31355.210	2.0	46000.360	3.0
682.6329	28.01	-2.01	105499.050	3.5	120144.170	2.5
682.6560	72.00	-.83	23471.338	0.0	38120.004	0.0
682.6590	71.01	-.46	36376.542	0.0	51025.144	0.0
682.6674	24.00	-3.47	44080.900	2.0	58725.280	1.0
682.6768	28.01	-2.35	100475.820	3.5	115120.000	2.5
682.6828	26.01	-3.65	50187.950	3.5	64832.000	4.5
682.6847	28.01	-4.51	115592.250	1.5	130236.260	2.5
682.6930	92.00	-1.60	0.000	0.0	14647.872	0.0
682.7001	26.02	-3.61	184951.620	3.0	199595.300	3.0
682.7005	27.00	-4.66	40345.950	2.5	54989.620	3.5
682.7196	25.00	-3.59	24788.050	2.5	39431.310	3.5
682.7243	18.00	-3.35	107289.747	2.0	121932.908	1.0
682.7330	45.00	-1.84	14679.669	0.0	29326.683	0.0
682.7363	28.00	-1.53	44475.158	2.0	59118.060	2.0
682.7458	13.01	-2.32	133447.300	4.0	148090.000	3.0
682.7989	22.01	-1.54	24961.340	1.5	39602.900	1.5
682.8110	41.00	-1.62	8952.985	0.0	23598.326	0.0
682.8111	13.01	-2.88	134181.200	3.0	148822.500	2.0
682.8111	13.01	-4.31	134181.200	3.0	148822.500	3.0
682.8111	13.01	-4.82	134181.200	4.0	148822.500	3.0
682.8111	13.01	-2.86	134181.200	4.0	148822.500	3.0
682.8111	13.01	-4.18	134181.200	4.0	148822.500	4.0
682.8111	13.01	-4.32	134181.200	4.0	148822.500	4.0
682.8111	13.01	-2.65	134181.200	5.0	148822.500	4.0
682.8115	6.00	-1.28	68856.330	1.0	83497.620	2.0
682.8153	8.01	-2.08	233544.090	1.5	248185.300	2.5
682.8156	26.00	-4.10	44183.607	2.0	58824.810	2.0
682.8185	28.01	-2.03	103653.030	3.5	118294.170	3.5
682.8250	64.00	-1.63	483.945	0.0	15128.986	0.0
682.8260	15.00	-2.01	65450.020	1.5	80091.000	.5
682.8261	26.00	-3.42	39625.784	4.0	54266.760	5.0
682.8420	74.00	-.51	31617.748	0.0	46262.424	0.0
682.8436	9.00	-1.69	118936.797	1.5	133577.400	1.5
682.8581	26.00	-1.63	37409.530	1.0	52049.820	2.0
682.8780	40.00	-1.38	11130.738	0.0	25774.642	0.0
682.8852	25.00	-1.47	30354.210	3.5	44993.920	3.5
682.8870	42.00	-.77	26616.982	0.0	41260.693	0.0
682.9040	90.00	-1.91	7420.492	0.0	22063.839	0.0
682.9136	6.00	-2.91	73975.910	0.0	88615.010	1.0
682.9197	28.01	-4.51	120144.170	2.5	134783.140	2.5
682.9304	28.01	-3.10	119656.250	3.5	134294.990	2.5
682.9379	28.01	-4.46	121437.680	5.5	136076.260	4.5
682.9547	21.00	-1.04	21032.780	2.5	35671.000	1.5
682.9799	14.01	-.26	103885.510	1.5	118523.190	2.5
682.9831	14.01	-1.21	103885.510	1.5	118523.120	1.5
682.9860	62.01	-1.67	10888.765	0.0	25530.354	0.0
682.9878	24.00	-3.43	24093.160	2.0	38730.670	2.0
682.9897	27.00	-4.59	17233.680	3.5	31871.150	3.5
682.9900	75.00	-1.32	14115.066	0.0	28756.569	0.0
682.9944	23.00	-3.04	8715.720	3.5	23353.090	3.5
683.0010	77.00	.13	37667.062	0.0	52308.329	0.0
683.0107	29.01	-3.15	136765.380	4.0	151402.400	3.0
683.0336	28.01	-3.11	103025.580	2.5	117662.110	1.5
683.0415	24.00	-4.45	44088.920	1.0	58725.280	1.0
683.0429	29.01	.05	138819.170	3.0	153455.500	4.0
683.0504	25.01	-3.84	49820.160	2.0	64456.330	2.0
683.0540	62.00	0.00	14840.984	0.0	29481.115	0.0
683.0569	24.00	-3.76	31364.330	3.0	46000.360	3.0
683.0700	25.01	-4.49	52373.180	3.0	67008.930	3.0
683.0877	10.02	-2.66	374434.000	2.0	389069.370	2.0
683.1096	25.00	-1.20	48270.910	2.5	62905.810	2.5
683.1120	26.01	-4.30	71964.810	2.5	86599.660	2.5
683.1152	28.01	-3.65	116468.400	1.5	131103.180	2.5
683.1158	22.00	-2.14	34204.971	4.0	48839.740	3.0
683.1187	22.00	-2.12	27418.015	2.0	42052.720	3.0
683.1213	24.00	-4.86	38537.680	5.0	53172.330	5.0
683.1316	10.01	-4.62	302247.780	3.5	316882.210	2.5
683.1517	17.01	-2.82	138623.000	1.0	153257.000	2.0
683.1520	44.00	-.73	25487.776	0.0	40125.807	0.0
683.1554	14.02	.19	214989.270	2.0	229623.190	1.0
683.1717	27.00	-1.27	39649.160	3.5	54282.730	2.5
683.2226	28.01	-4.65	115209.850	3.5	129842.330	2.5
683.2226	24.00	-3.74	44092.800	0.0	58725.280	1.0
683.2233	28.00	-3.73	42954.234	2.0	57586.700	2.0
683.2324	28.01	-2.88	100475.820	3.5	115108.090	2.5
683.2432	23.00	-2.85	8578.520	2.5	23210.560	2.5
683.2490	39.01	-2.24	14034.408	0.0	28670.361	0.0
683.2710	92.00	-1.94	6936.547	0.0	21572.028	0.0
683.2740	9.02	.03	430374.750	2.5	445006.130	2.5
683.2890	40.00	-2.80	564.603	0.0	15199.699	0.0
683.2898	18.01	-4.49	174409.830	1.5	189040.870	1.5
683.3104	29.01	-.56	136773.200	1.0	151403.800	2.0
683.3132	28.01	-4.40	121115.590	1.5	135746.130	1.5
683.3193	26.00	-2.01	37409.530	1.0	52039.939	1.0
683.3324	28.01	-2.18	119656.250	3.5	134286.380	4.5
683.3368	22.00	-2.78	26564.385	3.0	41194.420	3.0
683.3420	46.00	-.67	40167.445	0.0	54801.406	0.0
683.3524	28.01	-1.61	119665.290	2.5	134294.990	2.5
683.3670	40.00	-2.23	10969.423	0.0	25602.848	0.0
683.3823	25.00	-3.31	24802.250	3.5	39431.310	3.5
683.3828	28.01	-2.47	100490.950	1.5	115120.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
683.3856	24.00	-4.62	24282.340	4.0	38911.330	3.0
683.4050	57.01	-3.19	1935.780	0.0	16568.392	0.0
683.4060	7.00	-2.98	95475.280	.5	110103.834	1.5
683.4066	14.02	-.12	214994.650	1.0	229623.190	1.0
683.4090	7.01	-.54	188909.170	1.0	203537.660	1.0
683.4261	9.00	-.19	102680.435	1.5	117308.558	1.5
683.4300	63.00	-.16	21293.585	0.0	35925.661	0.0
683.4349	22.00	-4.03	33700.874	4.0	48328.810	4.0
683.4426	24.00	-3.72	33060.740	3.0	47688.510	4.0
683.4445	14.02	-.51	214995.460	0.0	229623.190	1.0
683.4739	27.00	-4.35	41918.410	3.5	56545.510	2.5
683.4780	22.00	-2.34	27480.047	3.0	42107.060	4.0
683.4797	22.00	-4.02	21469.494	3.0	36096.470	3.0
683.5211	26.02	-4.30	184951.620	3.0	199577.710	2.0
683.5795	28.01	-2.11	116275.810	3.5	130900.650	2.5
683.6076	10.02	-3.71	374434.000	2.0	389058.240	1.0
683.6188	9.03	-2.00	662843.000	3.0	677467.000	2.0
683.6338	28.00	-1.16	44565.100	3.0	59188.780	3.0
683.6936	24.00	-4.95	31377.960	4.0	46000.360	3.0
683.7030	27.00	-4.68	40827.770	1.5	55449.970	2.5
683.7041	26.00	-2.08	37046.000	4.0	51668.175	4.0
683.7046	22.00	-3.26	26892.926	3.0	41515.090	4.0
683.7076	13.01	.08	105467.700	2.0	120089.800	1.0
683.7305	28.01	-4.90	121227.800	2.5	135849.410	2.5
683.7418	25.00	-3.50	44978.980	1.5	59600.350	2.5
683.7502	26.01	-3.73	50212.930	2.5	64834.120	1.5
683.7502	29.01	-.56	136754.110	2.0	151375.300	2.0
683.7581	17.00	-3.38	84648.100	2.5	99269.121	2.5
683.7762	9.00	-1.95	118936.797	1.5	133557.430	2.5
683.7860	22.00	-3.65	21588.496	4.0	36208.920	4.0
683.7871	9.02	-.02	455648.670	1.5	470269.070	.5
683.7885	28.01	-2.42	106620.530	3.5	121240.900	3.5
683.7900	57.01	-3.27	2581.041	0.0	17205.414	0.0
683.7937	28.01	-2.34	99132.780	5.5	113753.040	4.5
683.8152	15.00	-4.20	65585.000	2.5	80204.800	1.5
683.8222	24.01	-3.30	74718.050	1.5	89337.700	1.5
683.8381	28.01	-4.32	121325.090	2.5	135944.400	3.5
683.8695	14.00	-4.36	49399.670	1.0	64018.310	1.0
683.8880	42.00	-.32	27584.872	0.0	42207.149	0.0
683.8933	24.01	-3.24	70107.830	4.5	84725.960	3.5
683.9293	24.00	-4.91	46448.600	1.0	61065.960	1.0
683.9396	28.01	-4.43	100490.950	1.5	115108.090	2.5
683.9551	28.01	-3.59	107082.210	2.5	121699.020	1.5
683.9574	18.01	-4.15	174820.930	.5	189437.690	.5
683.9598	23.00	-1.79	19023.470	4.5	33640.180	4.5
683.9621	26.01	-7.48	27620.390	2.5	42237.050	3.5
684.0239	28.01	-.34	119656.250	3.5	134271.590	4.5
684.0612	22.00	-7.17	13981.750	1.0	28596.293	1.0
684.0683	26.02	-2.85	117950.320	4.0	132564.710	5.0
684.0852	24.00	-3.93	31352.420	1.0	45966.450	2.0
684.0889	24.00	-3.78	31049.330	6.0	45663.280	5.0
684.0930	63.00	.04	21454.900	0.0	36072.796	0.0
684.1083	12.00	-2.03	46403.065	2.0	61016.600	2.0
684.1083	12.00	-2.68	46403.065	2.0	61016.600	3.0
684.1083	12.00	-.61	46403.065	2.0	61016.600	3.0
684.1319	26.00	-1.15	37157.546	2.0	51770.577	3.0
684.1594	22.00	-3.33	21588.496	4.0	36200.940	5.0
684.1615	17.01	-2.09	144174.000	3.0	158786.400	3.0
684.1750	62.00	.16	15486.244	0.0	30102.388	0.0
684.1759	17.00	-2.23	85735.091	1.5	100347.182	2.5
684.1868	23.00	-2.92	8476.200	1.5	23088.060	1.5
684.1935	22.00	-3.51	21739.713	5.0	36351.430	5.0
684.1952	25.01	-4.35	49882.150	4.0	64493.830	4.0
684.2018	23.00	-2.44	20767.570	3.5	35379.110	3.5
684.2035	28.00	-1.21	29500.690	1.0	44112.192	1.0
684.2107	24.00	-.01	27649.710	4.0	42261.060	5.0
684.2158	24.00	-3.82	31355.210	2.0	45966.450	2.0
684.2159	17.00	-1.06	82918.893	2.5	97530.130	2.5
684.2505	26.02	-4.47	151534.130	3.0	166144.630	2.0
684.2514	24.01	-4.31	32854.460	4.5	47464.940	4.5
684.2569	22.00	-7.10	14028.470	2.0	28638.832	2.0
684.2598	24.00	-3.16	33897.260	1.0	48507.560	1.0
684.2600	78.00	1.10	37586.404	0.0	52200.732	0.0
684.2651	14.00	-4.18	48264.292	3.0	62874.480	2.0
684.2656	26.00	-1.79	37409.530	1.0	52019.706	1.0
684.2657	7.00	-3.48	95493.660	1.5	110103.834	1.5
684.2683	9.02	-2.71	441158.600	1.5	455768.720	.5
684.2865	26.02	-4.26	151534.900	2.0	166144.630	2.0
684.2931	27.00	-3.38	39649.160	3.5	54258.750	2.5
684.3123	28.01	-2.47	99442.860	4.5	114052.040	3.5
684.3156	14.00	-2.94	50054.800	4.0	64663.910	4.0
684.3366	24.00	-.53	27649.710	4.0	42258.370	4.0
684.3386	10.02	-2.24	374460.750	1.0	389069.370	2.0
684.3446	25.00	-1.17	41403.930	2.5	56012.420	3.5
684.3446	9.02	-2.43	426558.910	1.5	441167.400	.5
684.3533	17.00	-1.82	85442.430	1.5	100050.736	1.5
684.3627	26.00	-1.76	36686.159	4.0	51294.262	3.0
684.3636	22.00	-3.20	27498.975	3.0	42107.060	4.0
684.3699	26.02	-4.65	151536.680	1.0	166144.630	2.0
684.3708	24.00	-4.72	31055.350	5.0	45663.280	5.0
684.3747	26.00	-4.77	37162.729	3.0	51770.577	3.0
684.3926	22.00	-3.78	24694.895	4.0	39302.360	4.0
684.3961	24.00	-4.34	24303.940	3.0	38911.330	3.0
684.3966	28.01	-3.96	116468.400	1.5	131075.780	1.5
684.4004	26.01	-4.82	64832.000	4.5	79439.300	3.5
684.4018	28.01	-2.60	106620.530	3.5	121227.800	2.5
684.4182	29.01	.14	136765.380	4.0	151372.300	5.0
684.4237	8.01	-2.08	231296.050	1.5	245902.850	2.5
684.4355	24.00	-1.26	27649.710	4.0	42256.260	3.0
684.4566	28.01	-1.02	121925.160	.5	136531.260	1.5
684.4669	24.00	-4.29	31009.000	3.0	45614.880	4.0
684.4673	26.00	-6.62	12560.933	3.0	27166.804	4.0
684.4678	26.00	-3.39	34636.820	2.0	49242.680	2.0
684.4697	28.01	-.20	119656.250	3.5	134262.070	3.5
684.4710	62.01	-1.37	10888.765	0.0	25498.588	0.0
684.4716	22.00	-4.16	24921.110	1.0	39526.890	2.0
684.4830	63.00	-.57	16534.792	0.0	31144.359	0.0
684.5161	25.00	-2.91	48300.980	1.5	62905.810	2.5
684.5170	23.00	-2.47	17116.920	3.5	31721.730	4.5
684.5222	25.02	-4.60	179152.090	3.5	193756.790	4.5
684.5240	39.00	-.53	19035.175	0.0	33643.867	0.0
684.5241	23.02	-1.58	146983.380	2.5	161588.040	3.5
684.5330	40.00	-1.95	10808.108	0.0	25416.608	0.0
684.5391	24.01	-3.67	74318.860	2.5	88923.200	2.5
684.5489	23.00	-4.20	24992.880	3.5	39597.010	4.5
684.5541	27.00	-4.36	40345.950	2.5	54949.970	1.5
684.5559	25.00	-1.30	41403.930	2.5	56007.910	2.5
684.5614	9.00	-2.69	118405.267	.5	133009.130	.5
684.5800	22.00	-2.09	27355.042	1.0	41958.510	2.0
684.5925	15.04	.27	376639.200	.5	391242.400	1.5
684.6230	29.01	-2.30	118991.500	4.0	133594.050	3.0
684.6250	92.00	-1.81	6210.629	0.0	20817.165	0.0
684.6272	10.01	-4.63	303599.930	3.5	318202.390	2.5
684.6340	40.00	-2.54	5000.766	0.0	19607.110	0.0
684.6431	24.00	-4.34	31364.330	3.0	45966.450	2.0
684.6441	29.01	-1.38	136773.200	1.0	151375.300	2.0
684.6540	62.01	-1.76	10162.848	0.0	24768.766	0.0
684.6544	9.02	-.81	427545.310	1.5	442147.190	2.5
684.6549	18.01	-2.06	190592.170	1.5	205194.040	1.5
684.6549	10.01	-4.84	303600.500	2.5	318202.370	1.5
684.6591	25.00	-2.07	45130.160	4.5	59731.940	4.5
684.6600	64.01	-1.49	10969.423	0.0	25575.213	0.0
684.6807	9.02	-2.46	441167.400	.5	455768.720	.5
684.6970	40.00	-.94	11856.655	0.0	26461.655	0.0
684.6976	8.01	-.92	231427.990	3.5	246028.950	3.5
684.7040	63.00	-.07	21293.585	0.0	35898.436	0.0
684.7060	24.00	-1.38	35501.260	3.0	50102.040	3.0
684.7229	7.01	-.90	188937.240	0.0	203537.660	1.0
684.7440	49.00	-1.20	24197.256	0.0	38801.254	0.0
684.7519	28.01	-.45	119656.250	3.5	134256.050	2.5
684.7520	12.02	-1.05	548034.400	0.0	562634.200	1.0
684.7571	26.00	-2.49	34328.733	3.0	48928.423	2.0
684.7572	9.02	-1.88	426558.910	1.5	441158.600	1.5
684.7693	24.01	-3.03	53271.070	2.5	67870.500	1.5
684.7852	8.02	-1.27	366486.910	1.0	381086.000	1.0
684.8160	62.01	-1.77	12501.916	0.0	27104.379	0.0
684.8200	23.02	-2.15	145978.270	2.5	160576.620	3.5
684.8256	28.01	-2.02	99154.810	4.5	113753.040	4.5
684.8317	17.01	-2.30	147198.400	4.0	161796.500	3.0
684.8363	15.00	-2.88	65585.000	2.5	80183.000	2.5
684.8580	14.00	-2.08	47284.061	1.0	61881.600	1.0
684.8585	26.00	-3.05	43922.652	3.0	58520.180	4.0
684.8603	10.02	-2.47	374460.750	1.0	389058.240	1.0
684.8748	22.00	-3.92	19937.859	1.0	34535.040	2.0
684.8792	22.00	-8.10	14105.680	3.0	28702.768	3.0
684.8842	24.01	-3.64	53271.070	2.5	67868.050	2.5
684.8870	28.00	-2.30	43933.428	2.0	58530.350	3.0
684.8906	55.00	-6.06	0.000	0.0	14600.872	0.0
684.8908	28.01	-3.18	104503.220	2.5	119100.060	1.5
684.8920	42.01	-.88	26294.352	0.0	40895.194	0.0
684.8936	28.01	-.83	119665.290	2.5	134262.070	3.5
684.9021	28.01	-3.29	119656.250	3.5	134252.850	3.5
684.9182	22.00	-2.19	21469.494	3.0	36065.750	3.0
684.9260	40.00	-1.45	12259.943	0.0	26860.060	0.0
684.9340	26.00	-3.68	41130.620	1.0	55726.540	0.0
684.9350	41.00	-2.23	8307.725	0.0	22907.651	0.0
684.9351	22.00	-4.65	26772.965	5.0	41368.860	4.0
684.9560	28.01	-4.13	116468.400	1.5	131063.850	.5
684.9772	10.03	-.70	633465.000	.5	648060.000	1.5
684.9783	22.00	-3.40	29986.185	3.0	44581.160	2.0
684.9890	64.00	-.19	20003.065	0.0	34601.840	0.0
684.9959	17.01	-2.13	144174.000	3.0	158768.600	2.0
685.0070	72.00	-.71	25084.489	0.0	39682.880	0.0
685.0381	28.00	-4.15	29668.918	3.0	44262.619	2.0
685.0550	59.01	-2.26	7339.834	0.0	21937.202	0.0
685.0657	9.00	-1.62	118405.267	.5	132998.380	1.5
685.0823	25.02	-4.08	121117.140	3.5	135709.900	2.5
685.0856	25.00	-1.47	41403.930	2.5	55996.620	1.5
685.1143	28.00	-3.98	43933.428	2.0	58525.507	1.0
685.1161	28.01	-1.95	121925.160	.5	136517.200	.5
685.1171	10.01	-3.72	303599.930	3.5	318191.950	3.5
685.1200	6.02	-1.45	323076.000	0.0	337671.983	0.0
685.1203	26.02	-4.47	185003.350	2.0	199595.300	3.0
685.1442	10.01	-3.90	303600.500	2.5	318191.940	2.5
685.1513	10.01	-2.11	303071.840	2.5	317663.130	1.5
685.1551	24.00	-3.72	50210.870	4.0	64802.080	5.0
685.1642	26.00	-5.83	12968.552	2.0	27559.568	2.0
685.1649	14.00	-2.78	49399.670	1.0	63990.670	2.0
685.1663	24.00	-2.46	33897.260	1.0	48488.230	0.0
685.1762	28.01	-.42	119665.290	2.5	134256.050	2.5
685.1771	24.01	-3.57	69903.460	3.5	84494.200	2.5
685.1842	28.01	-2.84	100619.260	4.5	115209.850	3.5
685.1879	18.00	-3.36	107496.463	1.0	122086.974	2.0
685.1926	10.01	-1.81	303237.910	1.5	317828.320	.5
685.1959	26.00	-3.19	34636.820	2.0	49227.160	3.0
685.2128	23.00	-2.92	20789.130	2.5	35379.110	3.5
685.2372	10.01	-4.84	302307.750	2.5	316897.210	3.5
685.2401	28.01	-1.65	119665.290	2.5	134254.690	1.5
685.2419	15.00	-3.61	66813.040	1.5	81402.400	2.5
685.2443	25.00	-4.54	44978.980	1.5	59568.290	.5
685.2560	40.00	-1.77	12259.943	0.0	26853.029	0.0
685.3052	28.00	-1.45	43089.636	5.0	57677.649	5.0
685.3063	9.02	-4.25	413143.860	3.5	427731.850	2.5
685.3100	6.02	-1.44	323101.000	0.0	337692.936	0.0
685.3265	28.01	-1.78	119665.290	2.5	134252.850	3.5
685.3622	25.00	-2.24	45013.550	2.5	59600.350	2.5
685.3730	74.00	-2.27	19438.462	0.0	34029.057	0.0
685.3824	18.01	-.85	204417.230	1.5	219003.600	2.5
685.3984	23.02	.13	146983.380	2.5	161569.410	1.5
685.4110	90.00	-1.41	12985.861	0.0	27575.647	0.0
685.4158	29.01	-2.87	135664.340	1.0	150250.000	2.0
685.4177	26.00	-3.67	39969.830	3.0	54555.450	4.0
685.4313	26.00	-4.65	33765.291	2.0	48350.620	1.0
685.4468	9.03	.39	665409.000	2.0	679994.000	3.0
685.4477	27.00	-2.75	34133.590	3.5	48718.570	2.5
685.4479	26.00	-4.19	33946.920	2.0	48531.896	3.0
685.4499	17.00	-1.77	85917.937	.5	100502.871	1.5
685.4500	62.01	-1.92	11292.053	0.0	25881.009	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
685.4590	28.01	-4.61	121294.670	4.5	135879.410	3.5
685.4630	40.00	-2.82	5162.081	0.0	19750.760	0.0
685.4670	18.01	-.97	204417.230	1.5	219001.800	1.5
685.4736	28.01	-.30	119665.290	2.5	134249.720	1.5
685.4779	10.01	-4.91	303599.930	3.5	318184.270	4.5
685.4783	10.01	-4.44	303599.930	3.5	318184.260	3.5
685.4830	26.00	-2.02	37046.000	4.0	51630.230	5.0
685.5051	10.01	-2.95	303600.500	2.5	318184.260	3.5
685.5051	10.01	-2.90	303599.930	3.5	318183.690	4.5
685.5147	26.00	-.82	36766.950	3.0	51350.505	4.0
685.5281	25.01	-3.99	49889.860	3.0	64473.130	3.0
685.5356	24.00	-4.40	46524.840	2.0	61107.950	2.0
685.5394	24.00	-3.77	50253.270	5.0	64836.300	6.0
685.5553	6.00	-3.97	73975.910	0.0	88558.600	1.0
685.5682	26.00	-2.02	37157.546	2.0	51739.964	2.0
685.5709	9.02	-1.10	430374.750	2.5	444957.110	1.5
685.5751	18.01	-1.59	196076.390	1.5	210658.660	2.5
685.5789	22.01	-3.20	16625.250	1.5	31207.440	2.5
685.5803	18.01	-2.31	196076.390	1.5	210658.550	1.5
685.6005	26.02	-4.49	186712.020	1.0	201293.750	2.0
685.6026	9.00	.42	102405.710	2.5	116987.394	3.5
685.6030	62.01	-1.51	8630.355	0.0	23216.055	0.0
685.6036	14.00	-1.40	49188.617	2.0	63770.280	1.0
685.6075	18.01	-3.46	160239.350	1.5	174820.930	.5
685.6204	9.00	-2.10	118427.823	1.5	133009.130	.5
685.6250	24.00	-3.69	33040.100	2.0	47621.310	3.0
685.6489	23.01	-3.26	32299.240	1.0	46879.940	2.0
685.6546	10.02	-2.48	374477.660	0.0	389058.240	1.0
685.6725	24.00	-3.92	33934.880	3.0	48515.080	3.0
685.6884	24.00	-3.83	38537.680	5.0	53117.540	4.0
685.7026	7.01	-.22	229838.960	2.0	244418.520	1.0
685.7110	15.00	-2.82	66544.120	2.5	81123.500	2.5
685.7130	64.01	-.73	17583.339	0.0	32166.700	0.0
685.7252	26.00	-3.92	32873.623	4.0	47452.702	4.0
685.7289	8.01	-2.17	233430.100	.5	248009.100	1.5
685.7300	6.02	-.98	323076.000	0.0	337658.999	0.0
685.7482	22.00	-2.75	31489.451	4.0	46068.040	4.0
685.7604	24.00	-2.93	23305.010	2.0	37883.340	2.0
685.7680	45.00	-.06	29681.967	0.0	44264.158	0.0
685.7900	40.00	-1.96	14599.011	0.0	29180.734	0.0
685.8089	9.00	-2.54	119081.820	.5	133659.120	.5
685.8119	26.00	-1.89	37162.729	3.0	51739.964	2.0
685.8120	62.00	-.08	16212.162	0.0	30793.418	0.0
685.8240	39.01	-2.25	13953.751	0.0	28534.751	0.0
685.8291	28.01	-4.05	121325.090	2.5	135901.960	2.5
685.8409	27.00	-1.09	41968.890	2.5	56545.510	2.5
685.8700	72.00	-1.28	16615.449	0.0	31195.471	0.0
685.9030	57.01	-3.65	3226.301	0.0	17805.622	0.0
685.9058	24.00	-4.78	33113.270	4.0	47688.510	4.0
685.9058	25.00	-1.63	47903.800	4.5	62479.040	4.5
685.9270	28.01	-5.00	121120.880	5.5	135695.670	4.5
685.9283	18.01	-1.46	204585.640	2.5	219160.400	2.5
685.9312	29.01	-4.05	133984.600	3.0	148559.300	2.0
685.9425	10.01	-4.51	302307.750	2.5	316882.210	2.5
685.9472	26.02	-4.58	185003.350	2.0	199577.710	2.0
685.9484	26.00	-4.37	22946.810	1.0	37521.144	2.0
685.9496	25.00	-2.23	30419.610	2.5	44993.920	3.5
686.0041	6.00	-3.97	73975.910	0.0	88549.060	1.0
686.0111	26.00	-2.80	38995.717	1.0	53568.720	2.0
686.0258	28.01	-4.38	121120.880	5.5	135693.570	4.5
686.0258	28.01	-4.48	121120.880	5.5	135693.570	5.5
686.0266	22.00	-2.60	27480.047	3.0	42052.720	3.0
686.0291	26.00	-4.41	21038.987	2.0	35611.608	3.0
686.0348	29.01	-1.49	138883.000	4.0	153455.500	4.0
686.0395	30.02	-2.97	285503.700	1.0	300076.100	2.0
686.0718	7.00	-2.95	95532.120	2.5	110103.834	1.5
686.0761	14.00	-.99	49188.617	2.0	63760.240	3.0
686.0930	62.00	-1.11	241.973	0.0	14817.257	0.0
686.0955	26.00	-4.72	22838.320	2.0	37409.530	1.0
686.0988	14.02	-2.57	240284.280	2.0	254855.420	3.0
686.1236	28.00	-.55	43258.792	4.0	57829.405	5.0
686.1263	9.00	-2.07	118427.823	1.5	132998.380	1.5
686.1266	18.01	-.92	145668.800	1.5	160239.350	1.5
686.1348	22.00	-2.42	27418.015	2.0	41988.390	3.0
686.1402	28.01	-3.60	121125.410	4.5	135695.670	4.5
686.1449	22.00	-1.34	18287.560	4.0	32857.721	3.0
686.1528	22.00	-1.92	27614.667	4.0	42184.660	4.0
686.1614	28.01	-2.27	106620.530	3.5	121190.340	4.5
686.1756	24.01	-2.75	69638.770	1.5	84208.280	.5
686.1897	28.01	-3.92	115565.980	2.5	130135.190	1.5
686.1926	26.00	-4.31	19552.474	1.0	34121.623	0.0
686.2043	14.02	-2.06	230364.460	0.0	244933.360	1.0
686.2095	18.01	-2.74	196089.870	2.5	210658.660	2.5
686.2147	18.01	-3.28	196089.870	2.5	210658.550	1.5
686.2391	28.01	-4.88	121125.410	4.5	135693.570	4.5
686.2391	28.01	-2.76	121125.410	4.5	135693.570	5.5
686.2457	28.01	-4.44	121125.410	4.5	135693.430	3.5
686.2514	15.00	-3.63	66834.500	1.5	81402.400	2.5
686.2550	22.00	-8.02	14028.470	2.0	28596.293	1.0
686.2820	62.01	-1.96	7097.862	0.0	21669.132	0.0
686.2829	23.00	-6.83	13801.530	1.5	28368.760	1.5
686.2891	29.01	.15	138883.000	4.0	153450.100	5.0
686.2900	6.02	-.79	323101.000	0.0	337672.100	0.0
686.3065	25.00	-.07	41789.480	4.5	56356.210	3.5
686.3188	25.01	-4.87	49889.860	3.0	64456.330	2.0
686.3522	28.01	-2.69	121120.880	5.5	135686.640	6.5
686.3541	18.01	-1.05	143107.600	2.5	157673.320	2.5
686.3602	24.00	-2.62	35618.510	1.0	50184.100	2.0
686.3810	28.01	-4.51	114858.880	5.5	129424.030	5.5
686.4386	14.00	-3.25	48102.323	2.0	62666.250	1.0
686.4540	63.00	-1.46	0.000	0.0	14567.619	0.0
686.4823	13.01	-3.84	106918.200	1.0	121481.200	1.0
686.4861	18.01	-2.98	170530.310	3.5	185093.230	4.5
686.4894	27.00	-1.73	41982.660	1.5	56545.510	2.5
686.4964	13.01	-3.36	106918.200	1.0	121480.900	2.0
686.5078	9.02	-.18	427731.850	2.5	442294.310	1.5
686.5106	20.02	-.78	326186.320	3.0	340748.720	2.0
686.5130	73.00	-2.69	10888.765	0.0	25455.132	0.0
686.5280	23.00	-2.98	19078.150	3.5	33640.180	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
686.5402	14.00	-2.90	49188.617	2.0	63750.390	1.0
686.5403	17.00	-2.26	82918.893	2.5	97480.664	1.5
686.5544	24.00	-4.35	46637.210	3.0	61198.680	3.0
686.5690	56.00	-.56	11395.000	0.0	25960.178	0.0
686.5907	28.01	-4.45	114858.880	5.5	129419.580	4.5
686.5969	24.00	-4.17	33060.740	3.0	47621.310	3.0
686.6030	7.00	-3.10	95475.280	.5	110035.720	.5
686.6230	73.00	-1.38	12179.286	0.0	26743.319	0.0
686.6407	26.00	-3.84	40052.080	2.0	54611.720	2.0
686.6459	24.00	-4.22	31055.350	5.0	45614.880	4.0
686.6529	15.00	-4.55	65450.020	1.5	80009.400	.5
686.6690	27.00	-1.48	40345.950	2.5	54904.990	2.5
686.6840	22.00	-1.75	25227.217	3.0	39785.940	4.0
686.7110	25.00	.14	41932.640	3.5	56490.790	2.5
686.7238	14.00	-2.27	47284.061	1.0	61841.940	2.0
686.7247	23.00	-7.24	13810.900	.5	28368.760	1.5
686.7374	28.00	-1.77	44314.980	4.0	58872.570	4.0
686.7398	28.01	-4.17	101754.800	2.5	116312.340	1.5
686.7402	23.02	-1.50	145822.110	1.5	160379.640	2.5
686.7742	28.01	-1.50	107142.210	1.5	121699.020	1.5
686.7850	56.00	-.12	22826.078	0.0	37386.676	0.0
686.7912	26.01	-3.96	72043.210	1.5	86599.660	2.5
686.7959	24.00	-2.16	35501.260	3.0	50057.610	2.0
686.8159	14.00	-2.87	49028.294	0.0	63584.220	1.0
686.8171	38.01	-6.96	0.000	0.0	14559.917	0.0
686.8256	28.01	-3.22	121190.340	4.5	135746.060	3.5
686.8450	90.00	-1.50	13227.833	0.0	27787.159	0.0
686.8893	29.01	-2.04	119039.680	2.0	133594.050	3.0
686.9100	6.02	-1.45	323101.000	0.0	337658.948	0.0
686.9132	26.00	-3.43	33412.706	3.0	47966.571	3.0
686.9188	22.00	-2.02	27498.975	3.0	42052.720	3.0
686.9229	18.01	-3.27	196076.390	1.5	210630.050	2.5
686.9408	28.00	-4.38	15609.861	2.0	30163.140	2.0
686.9532	22.00	-4.71	33655.853	2.0	48208.870	3.0
686.9559	28.00	-2.26	44565.100	3.0	59118.060	2.0
686.9578	7.01	0.00	229838.960	2.0	244391.880	2.0
686.9649	8.01	-.76	231350.080	2.5	245902.850	2.5
686.9879	17.00	-2.30	84648.100	2.5	99200.382	3.5
687.0003	24.00	-4.98	33906.650	1.0	48458.670	2.0
687.0092	24.01	-3.99	74718.050	1.5	89269.880	.5
687.0153	28.00	-.80	43258.792	4.0	57810.494	4.0
687.0213	9.00	-.23	102840.376	.5	117391.950	.5
687.0664	27.00	-4.66	40345.950	2.5	54896.570	3.5
687.0767	13.01	-2.83	134181.200	4.0	148731.600	3.0
687.0767	13.01	-4.98	134181.200	4.0	148731.600	3.0
687.0767	13.01	-4.19	134181.200	3.0	148731.600	3.0
687.0867	23.00	-1.66	19145.130	5.5	33695.320	5.5
687.1259	29.01	-3.40	122223.840	0.0	136773.200	1.0
687.1285	18.00	-1.82	104102.144	1.0	118651.447	1.0
687.1381	17.01	-2.67	150813.000	1.0	165362.100	0.0
687.1429	15.04	-.46	445814.000	1.5	460363.000	1.5
687.1429	15.04	.49	445814.000	2.5	460363.000	1.5
687.1429	15.04	.23	445814.000	1.5	460363.000	.5
687.1471	25.00	-2.81	44978.980	1.5	59527.890	1.5
687.1485	23.00	-1.72	15571.900	2.5	30120.780	2.5
687.1700	6.02	-.54	323140.000	0.0	337692.440	0.0
687.1722	25.00	-2.66	44978.980	1.5	59527.360	.5
687.1731	24.01	-4.50	54444.190	3.5	68992.550	4.5
687.2066	24.00	-3.80	33762.740	6.0	48310.390	5.0
687.2134	26.00	-4.21	37157.546	2.0	51705.052	2.0
687.2336	9.02	-.65	427731.850	2.5	442278.930	2.5
687.2388	27.00	-1.93	16195.680	.5	30742.650	.5
687.2430	62.01	-1.35	13469.806	0.0	28020.700	0.0
687.2566	26.00	-3.62	32873.623	4.0	47420.215	5.0
687.2633	28.01	-3.35	121146.980	2.5	135693.430	3.5
687.2633	28.01	-3.25	121146.980	2.5	135693.430	2.5
687.2696	22.00	-3.86	27355.042	1.0	41901.360	1.0
687.2813	17.00	-3.61	85442.430	1.5	99988.501	2.5
687.2875	17.00	-2.82	84988.480	1.5	99534.419	.5
687.2893	28.01	-2.26	105499.050	3.5	120044.950	4.5
687.3233	28.01	-2.48	113321.950	4.5	127867.130	4.5
687.3427	28.00	-3.37	34408.574	1.0	48953.344	1.0
687.3522	23.00	-4.67	20202.490	2.5	34747.060	3.5
687.3755	22.00	-3.71	21469.494	3.0	36013.570	2.0
687.3847	10.01	-3.49	303237.910	1.5	317781.790	1.5
687.3862	26.00	-3.35	44166.240	3.0	58710.090	3.0
687.3926	22.00	-2.10	21588.496	4.0	36132.210	4.0
687.3942	9.02	-.30	426733.040	2.5	441276.720	2.5
687.4022	10.01	-4.21	303237.910	1.5	317781.420	2.5
687.4292	28.01	-2.82	115592.250	1.5	130135.190	1.5
687.4689	8.01	-4.15	251220.900	3.5	265763.000	3.5
687.4708	7.00	-2.40	95493.660	1.5	110035.720	.5
687.4722	9.00	-2.55	119081.820	.5	133623.850	1.5
687.4750	90.00	-2.61	2823.013	0.0	17368.996	0.0
687.4879	22.00	-2.61	28788.372	4.0	43330.070	5.0
687.4883	26.01	-4.70	72169.150	1.5	86710.840	1.5
687.4888	23.02	-1.19	146139.800	2.5	160681.480	3.5
687.5152	24.00	-4.62	46524.840	2.0	61065.960	1.0
687.5195	28.01	-3.87	121111.900	.5	135652.930	1.5
687.5270	73.00	-1.74	9920.875	0.0	24465.758	0.0
687.5270	62.01	-1.93	12501.916	0.0	27046.799	0.0
687.5365	25.00	-1.59	47753.990	2.5	62294.660	3.5
687.5422	24.00	-4.79	50210.870	4.0	64751.420	4.0
687.5448	22.00	-2.66	27418.015	2.0	41958.510	2.0
687.5453	26.00	-4.15	19788.248	4.0	34328.733	3.0
687.5597	18.01	-2.13	196089.870	2.5	210630.050	2.5
687.5635	28.01	-4.97	116275.810	3.5	130815.910	3.5
687.5635	8.01	-1.23	251220.900	3.5	265761.000	4.5
687.5682	24.01	-3.11	69954.200	2.5	84494.200	2.5
687.5800	23.00	-1.61	17181.980	4.5	31721.730	4.5
687.5852	18.01	-3.77	196119.020	3.5	210658.660	2.5
687.5900	25.00	-2.01	45060.810	3.5	59600.350	2.5
687.5978	26.00	-3.05	44285.436	2.0	58824.810	2.0
687.5998	26.00	-4.53	33765.291	2.0	48304.623	2.0
687.6020	74.00	-.44	34924.706	0.0	49468.003	0.0
687.6148	22.00	-4.22	12118.394	4.0	26657.409	4.0
687.6202	28.01	-3.34	101246.160	.5	115785.060	1.5
687.6202	8.01	-1.04	251224.100	2.5	265763.000	3.5
687.6360	14.00	-3.23	48264.292	3.0	62802.860	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
687.6360	41.00	-2.02	8630.355	0.0	23172.933	0.0
687.6486	13.01	-1.30	133679.300	3.0	148217.600	4.0
687.6486	13.01	-1.11	133679.300	3.0	148217.600	4.0
687.6581	22.00	-4.26	25102.880	2.0	39640.980	3.0
687.6676	8.01	-3.84	251224.100	2.5	265762.000	1.5
687.6688	28.00	-2.10	28068.091	4.0	42605.964	3.0
687.6775	28.01	-3.01	101247.370	2.5	115785.060	1.5
687.7025	28.01	-3.84	114858.880	5.5	129396.040	5.5
687.7096	22.00	-4.34	26657.409	4.0	41194.420	3.0
687.7352	28.00	-1.43	44336.100	4.0	58872.570	4.0
687.7792	28.01	-4.50	101740.270	3.5	116275.810	3.5
687.7801	25.02	-3.30	177477.230	2.5	192012.750	1.5
687.7811	29.01	-3.49	133826.200	2.0	148361.700	1.0
687.7859	26.00	-3.48	39625.784	4.0	54161.182	3.0
687.7863	28.01	-4.81	119315.440	2.5	133850.830	3.5
687.8000	8.04	-1.19	689890.000	0.0	704429.110	0.0
687.8380	38.00	-.28	14437.696	0.0	28976.003	0.0
687.8644	24.00	-2.85	48140.180	7.0	62673.920	6.0
687.8677	28.01	-2.80	112686.300	2.5	127219.970	3.5
687.8700	76.00	-2.51	14760.326	0.0	29297.957	0.0
687.8727	22.00	-1.68	25107.417	2.0	39640.980	3.0
687.8757	28.01	-3.39	54176.260	.5	68709.760	.5
687.8922	22.00	-9.02	14105.680	3.0	28638.832	2.0
687.9027	28.01	-3.60	122140.710	4.5	136673.640	4.5
687.9035	14.00	-1.06	49188.617	2.0	63721.530	2.0
687.9098	23.02	-2.00	146347.200	5.5	160879.980	4.5
687.9183	24.00	-4.58	35572.940	2.0	50105.540	1.0
687.9420	29.01	-1.03	108335.430	2.0	122867.530	1.0
687.9467	28.02	-3.51	121566.700	1.0	136098.700	1.0
687.9500	62.00	.17	17099.394	0.0	31635.334	0.0
687.9576	18.00	-3.23	106087.305	1.0	120619.076	2.0
687.9661	9.00	-2.79	119081.820	.5	133613.410	.5
687.9940	45.00	-1.39	16857.422	0.0	31392.432	0.0
687.9941	29.01	-2.09	133984.600	3.0	148515.600	4.0
688.0026	28.00	-2.89	43258.792	4.0	57789.611	4.0
688.0093	22.00	-4.09	27025.652	4.0	41556.330	5.0
688.0550	17.00	-3.70	85442.430	1.5	99972.144	.5
688.0604	15.00	-1.60	65585.000	2.5	80114.600	1.5
688.0620	26.00	-2.47	33507.102	3.0	48036.667	2.0
688.0783	22.00	-2.44	28702.768	3.0	43231.990	4.0
688.0840	24.00	-1.12	35572.940	2.0	50102.040	3.0
688.0884	22.00	-2.92	20006.032	2.0	34535.040	2.0
688.1041	26.00	-3.78	37521.144	2.0	52049.820	2.0
688.1390	24.00	-4.91	50184.100	2.0	64712.040	3.0
688.1400	6.02	-1.44	323140.000	0.0	337671.927	0.0
688.1460	20.02	-.31	328582.450	1.0	343110.240	0.0
688.1650	24.00	-.75	27728.870	2.0	42256.260	3.0
688.1655	25.00	-3.12	48225.990	3.5	62753.370	2.5
688.1687	26.00	-2.40	36766.950	3.0	51294.262	3.0
688.1731	27.00	-4.01	33674.380	2.5	48201.600	3.5
688.1736	28.01	-1.19	121800.340	1.5	136327.550	1.5
688.1811	28.01	-2.52	101258.010	1.5	115785.060	1.5
688.1826	28.01	-2.24	100592.980	3.5	115120.000	2.5
688.1925	18.01	-4.33	196103.310	4.5	210630.120	3.5
688.1940	29.00	-1.52	56621.579	0.0	71152.365	0.0
688.2080	26.00	-3.41	44183.607	2.0	58710.090	3.0
688.2257	25.00	-.95	47774.520	3.5	62300.630	4.5
688.2365	15.00	-4.12	66544.120	2.5	81070.000	1.5
688.2411	14.00	-2.04	49188.617	2.0	63714.400	2.0
688.2475	24.00	-.52	27728.870	2.0	42254.520	2.0
688.2693	22.01	-3.97	52471.480	2.5	66996.670	3.5
688.2996	24.00	-.56	27728.870	2.0	42253.420	1.0
688.3020	13.01	-2.23	132819.700	3.0	147344.200	3.0
688.3053	28.01	-3.66	100475.820	3.5	115000.250	3.5
688.3114	13.01	-1.33	132819.900	2.0	147344.200	3.0
688.3230	40.00	-2.96	5000.766	0.0	19528.829	0.0
688.3356	24.00	-4.33	33934.880	3.0	48458.670	2.0
688.3437	14.00	-2.81	49060.601	1.0	63584.220	1.0
688.3721	24.00	-3.84	33935.650	2.0	48458.670	2.0
688.3854	25.00	-2.17	45130.160	4.5	59652.900	5.5
688.3882	25.00	-2.53	47903.800	4.5	62426.480	3.5
688.3911	23.00	-2.14	15571.900	2.5	30094.520	1.5
688.4034	27.00	-3.28	34196.210	1.5	48718.570	2.5
688.4228	28.01	-3.29	53634.620	1.5	68156.570	1.5
688.4314	7.00	-5.00	83284.040	.5	97805.810	1.5
688.4560	26.00	-4.47	39969.830	3.0	54491.080	3.0
688.4717	15.00	-2.56	65787.380	3.5	80308.300	2.5
688.5039	8.01	-.84	231296.050	1.5	245816.290	1.5
688.5086	25.00	-1.57	47774.520	3.5	62294.660	3.5
688.5160	62.01	-1.45	12663.231	0.0	27187.222	0.0
688.5394	18.01	-1.44	196089.870	2.5	210609.360	3.5
688.5698	22.00	-1.72	31725.750	1.0	46244.600	2.0
688.5703	14.00	-2.73	49060.601	1.0	63579.440	0.0
688.5724	26.00	-2.11	37521.144	2.0	52039.939	1.0
688.5793	28.00	-2.14	42585.296	4.0	57103.946	3.0
688.5978	28.01	-4.99	121227.800	2.5	135746.060	3.5
688.6280	42.00	-.60	27584.872	0.0	42106.501	0.0
688.6404	28.00	-2.11	44475.158	2.0	58992.520	2.0
688.6445	26.00	-2.69	33412.706	3.0	47929.981	4.0
688.6618	18.01	-1.12	142717.020	3.5	157233.930	3.5
688.6657	22.00	-2.85	27355.042	1.0	41871.670	2.0
688.6804	22.00	-3.17	27355.042	1.0	41871.560	0.0
688.6974	28.01	-4.43	121385.800	1.5	135901.960	2.5
688.7050	30.02	-2.56	285592.100	2.0	300108.100	3.0
688.7087	18.00	-2.93	106237.597	2.0	120753.520	3.0
688.7101	22.00	-4.60	31205.985	3.0	45721.878	4.0
688.7220	39.00	-.40	21777.530	0.0	36297.177	0.0
688.7273	22.01	-2.86	24961.340	1.5	39476.870	2.5
688.7472	28.01	-4.06	100592.980	3.5	115108.090	2.5
688.7506	28.01	-.94	121115.590	1.5	135630.630	2.5
688.7520	28.01	-3.91	121178.560	3.5	135693.570	4.5
688.7529	16.01	-4.12	113461.220	1.5	127976.210	1.5
688.7586	28.01	-4.35	121178.560	3.5	135693.430	3.5
688.7740	92.00	-1.51	8065.752	0.0	22584.302	0.0
688.7741	17.00	-1.20	85735.091	1.5	100249.636	2.5
688.7833	7.01	.15	229838.960	2.0	244353.310	3.0
688.7838	25.00	-2.63	45013.550	2.5	59527.890	1.5
688.7904	25.00	.16	42053.730	2.5	56567.930	1.5
688.8171	18.00	-3.71	106087.305	1.0	120600.944	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
688.8290	40.00	-.86	11534.025	0.0	26051.416	0.0
688.8459	28.01	-4.42	121180.540	4.5	135693.570	4.5
688.8545	25.02	-4.27	121197.050	2.5	135709.900	2.5
688.8877	23.00	-7.01	13801.530	1.5	28313.680	.5
688.9029	26.01	-4.25	58631.650	4.5	73143.480	3.5
688.9060	17.00	-1.42	85735.091	1.5	100246.855	1.5
688.9096	28.01	-.86	121111.900	.5	135623.590	1.5
688.9375	18.01	-2.77	196119.020	3.5	210630.120	3.5
688.9380	15.01	-3.75	87125.400	2.0	101636.490	1.0
688.9456	25.00	-3.66	51638.170	2.5	66149.100	3.5
688.9898	18.01	-2.73	190732.970	.5	205242.970	.5
689.0116	23.00	-4.12	8578.520	2.5	23088.060	1.5
689.0222	22.00	-2.46	28638.832	2.0	43148.150	3.0
689.0359	28.01	-3.30	114858.880	5.5	129367.910	6.5
689.0368	27.00	-2.59	39649.160	3.5	54158.170	4.5
689.0685	22.00	-3.31	27480.047	3.0	41986.390	3.0
689.0786	23.00	-9.54	14910.040	3.5	29418.170	3.5
689.0819	28.01	-2.35	119773.600	6.5	134281.660	5.5
689.0843	28.01	-1.78	121111.900	.5	135619.910	1.5
689.0848	28.01	-.98	121115.590	1.5	135623.590	1.5
689.0850	22.00	-3.17	33700.874	4.0	48208.870	3.0
689.0860	22.00	-3.38	21588.496	4.0	36096.470	3.0
689.0900	29.00	-1.45	57428.154	0.0	71940.046	0.0
689.0908	2.01	-.34	421353.130	0.0	435865.006	0.0
689.1009	24.00	-4.13	36552.130	3.0	51059.790	4.0
689.1318	14.02	-2.37	230364.460	0.0	244871.470	1.0
689.1774	18.01	-3.67	196103.310	4.5	210609.360	3.5
689.1817	18.01	-2.68	196103.310	4.5	210609.270	4.5
689.2197	28.01	-4.20	121240.900	3.5	135746.060	3.5
689.2273	30.02	-4.37	285503.700	1.0	300008.700	1.0
689.2320	17.01	-4.37	165362.100	0.0	179867.000	1.0
689.2360	42.00	-1.00	25326.461	0.0	39835.279	0.0
689.2567	18.01	-3.37	196103.310	4.5	210607.690	4.5
689.2590	38.00	-2.84	0.000	0.0	14508.334	0.0
689.2596	28.01	-.71	121115.590	1.5	135619.910	1.5
689.2606	24.00	-4.32	29584.620	2.0	44088.920	1.0
689.2634	18.01	-1.62	196103.310	4.5	210607.550	5.5
689.2796	24.00	-4.12	24093.160	2.0	38597.060	1.0
689.2838	28.01	-1.47	105499.050	3.5	120002.860	3.5
689.3033	23.01	-6.15	20242.320	4.0	34745.720	3.0
689.3057	28.01	-4.60	121192.320	3.5	135695.670	4.5
689.3147	23.01	-6.83	20089.560	1.0	34592.720	2.0
689.3228	28.01	-4.35	115000.250	3.5	129503.240	4.5
689.3328	23.00	-6.81	13810.900	.5	28313.680	.5
689.3375	25.01	-4.91	53781.700	3.0	68284.380	3.0
689.3466	28.01	-1.25	121115.590	1.5	135618.080	2.5
689.3713	26.02	-3.21	186791.780	2.0	201293.750	2.0
689.3784	25.00	-3.45	44978.980	1.5	59480.800	2.5
689.3932	10.01	-4.95	303279.910	2.5	317781.420	2.5
689.4031	23.00	-2.37	19026.340	2.5	33527.640	2.5
689.4051	28.01	-2.28	122047.290	3.5	136548.550	2.5
689.4055	28.01	-3.71	121192.320	3.5	135693.570	4.5
689.4122	28.01	-4.94	121192.320	3.5	135693.430	3.5
689.4165	28.01	-1.36	119773.600	6.5	134274.620	5.5
689.4222	12.03	-4.48	582571.000	2.5	597071.900	1.5
689.4483	9.02	-.34	455768.720	.5	470269.070	.5
689.4545	28.01	-2.99	112719.750	3.5	127219.970	3.5
689.4607	23.00	-4.17	24898.730	2.5	39398.820	3.5
689.4721	29.01	-1.37	136919.350	3.0	151419.200	3.0
689.4726	28.01	-1.05	122047.290	3.5	136547.130	3.5
689.4754	23.02	-1.87	145822.110	1.5	160321.890	2.5
689.4918	12.00	-2.06	46403.065	2.0	60902.500	2.0
689.4918	12.00	-2.72	46403.065	2.0	60902.500	3.0
689.4918	12.00	-.64	46403.065	2.0	60902.500	3.0
689.4954	24.01	-3.41	74423.840	3.5	88923.200	2.5
689.5002	22.00	-4.87	31190.631	2.0	45689.890	3.0
689.5003	55.00	-6.25	0.000	0.0	14503.257	0.0
689.5025	28.01	-1.32	122047.290	3.5	136546.500	4.5
689.5273	8.01	.15	231530.260	4.5	246028.950	3.5
689.5333	26.00	-4.93	37521.144	2.0	52019.706	1.0
689.5514	26.00	-3.76	34636.820	2.0	49135.003	3.0
689.5724	26.01	-4.54	72213.100	.5	86710.840	1.5
689.5761	26.00	-4.65	44022.518	4.0	58520.180	4.0
689.5829	23.00	-3.56	23608.800	1.5	38106.320	2.5
689.5886	29.01	-3.45	133984.600	3.0	148482.000	3.0
689.5953	23.02	-.93	145647.000	1.5	160144.260	1.5
689.6000	39.01	-2.07	14034.408	0.0	28535.568	0.0
689.6081	24.00	-2.59	23386.350	3.0	37883.340	2.0
689.6224	29.01	-4.77	130386.400	2.0	144883.090	2.0
689.6419	24.00	-3.74	29584.620	2.0	44080.900	2.0
689.6752	9.00	-3.14	119081.820	.5	133577.400	1.5
689.6770	73.00	-2.72	10566.135	0.0	25065.676	0.0
689.6995	26.02	-3.75	151757.670	2.0	166252.740	3.0
689.7004	23.00	-2.86	19145.130	5.5	33640.180	4.5
689.7033	28.01	-1.20	122047.290	3.5	136542.280	3.5
689.7104	23.00	-4.35	8715.720	3.5	23210.560	2.5
689.7418	25.02	-4.57	195036.200	6.5	209530.380	7.5
689.7418	25.02	-4.98	195036.200	6.5	209530.380	7.5
689.7694	28.01	-.40	119773.600	6.5	134267.200	6.5
689.8010	42.00	-.46	31133.803	0.0	45630.738	0.0
689.8118	28.01	-2.15	99559.330	2.5	114052.040	3.5
689.8210	63.00	.14	21454.900	0.0	35951.414	0.0
689.8265	26.00	-1.97	34039.495	4.0	48531.896	3.0
689.8265	13.01	-1.72	132776.400	0.0	147268.800	1.0
689.8269	22.00	-2.41	27614.667	4.0	42107.060	4.0
689.8332	23.00	-8.51	2424.890	4.5	16917.150	5.5
689.8461	8.02	-2.90	366594.010	2.0	381086.000	1.0
689.8622	24.01	-4.28	54678.950	4.5	69170.600	5.5
689.8979	30.02	-3.34	285592.100	2.0	300083.000	3.0
689.8980	42.00	-1.11	25810.406	0.0	40305.302	0.0
689.9175	28.01	-1.66	121800.340	1.5	136290.830	.5
689.9289	18.01	-4.25	196119.020	3.5	210609.270	4.5
689.9336	24.01	-4.38	74984.930	1.5	89475.080	2.5
689.9375	9.02	-2.17	441158.600	1.5	455648.670	1.5
689.9394	29.01	-2.19	135759.970	2.0	150250.000	2.0
689.9670	28.01	-4.32	116275.810	3.5	130765.260	3.5
689.9675	22.00	-3.90	27025.652	4.0	41515.090	4.0
689.9686	22.00	-2.49	27498.975	3.0	41988.390	3.0
690.0041	18.01	-1.70	196119.020	3.5	210607.690	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
690.0122	18.01	-1.45	190732.970	.5	205221.470	1.5
690.0130	49.00	-1.51	24197.256	0.0	38689.737	0.0
690.0236	28.01	-2.43	121800.340	1.5	136288.600	2.5
690.0280	62.01	-2.14	10808.108	0.0	25300.274	0.0
690.0351	28.01	-3.76	113407.310	2.5	127895.330	3.5
690.0355	7.00	-3.93	83317.800	1.5	97805.810	1.5
690.0417	24.00	-4.65	28637.000	3.0	43124.880	2.0
690.0474	15.00	-3.00	66813.040	1.5	81300.800	1.5
690.0550	73.00	-.45	25891.064	0.0	40382.662	0.0
690.0590	40.00	-1.42	11856.655	0.0	26348.169	0.0
690.0730	64.01	-1.06	17663.997	0.0	32155.217	0.0
690.0789	28.01	-.73	121111.900	.5	135599.000	.5
690.0822	24.00	-3.41	35618.510	1.0	50105.540	1.0
690.0884	18.01	-1.68	190592.170	1.5	205079.070	2.5
690.0932	18.01	-.66	204515.000	.5	219001.800	1.5
690.1165	23.00	-2.56	17054.870	2.5	31541.180	3.5
690.1260	7.00	-4.70	83284.040	.5	97770.150	.5
690.1439	22.00	-.88	29768.655	2.0	44254.390	3.0
690.1504	27.00	-2.73	27497.060	2.5	41982.660	1.5
690.1546	23.00	-3.63	25111.500	4.5	39597.010	4.5
690.1580	76.00	-1.27	25487.776	0.0	39977.212	0.0
690.1623	25.02	-3.12	177687.540	3.5	192172.890	2.5
690.1818	14.00	-3.57	49399.670	1.0	63884.610	1.0
690.1883	28.00	-1.10	43258.792	4.0	57743.596	3.0
690.1947	24.00	-1.35	35572.940	2.0	50057.610	2.0
690.1967	22.00	-2.63	28596.293	1.0	43080.920	2.0
690.2051	29.01	-1.62	136919.350	3.0	151403.800	2.0
690.2100	73.00	-1.84	9678.902	0.0	24167.246	0.0
690.2218	24.00	-3.54	29584.620	2.0	44068.720	3.0
690.2218	8.01	-4.25	251220.900	3.5	265705.000	2.5
690.2266	30.02	-3.82	285592.100	2.0	300076.100	2.0
690.2447	24.01	-3.17	74854.080	.5	89337.700	1.5
690.2471	9.00	.19	102680.435	1.5	117164.006	2.5
690.2485	9.02	-.23	453343.620	2.5	467827.160	1.5
690.2547	28.01	-1.62	121115.590	1.5	135599.000	.5
690.2550	92.00	-2.06	4194.191	0.0	18681.591	0.0
690.2578	22.00	-3.08	27418.015	2.0	41901.360	1.0
690.2719	29.01	-.41	136919.350	3.0	151402.400	3.0
690.2791	28.00	-1.02	42621.048	3.0	57103.946	3.0
690.2791	12.03	-5.00	582589.000	1.5	597071.900	1.5
690.2809	24.01	-4.80	55023.300	2.5	69506.160	3.5
690.2890	41.00	-2.15	8952.985	0.0	23439.671	0.0
690.2938	24.00	-4.67	27597.220	3.0	42079.810	4.0
690.2974	26.00	-3.65	38678.015	2.0	53160.530	3.0
690.3000	25.00	-1.81	48270.910	2.5	62753.370	2.5
690.3191	24.00	-3.67	36577.730	4.0	51059.790	4.0
690.3210	25.01	-3.36	88198.070	6.0	102680.090	5.0
690.3362	28.01	-3.85	116275.810	3.5	130757.510	4.5
690.3567	9.02	-2.77	441167.400	.5	455648.670	1.5
690.3670	63.00	.60	21616.215	0.0	36101.264	0.0
690.3743	8.01	-2.60	251224.100	2.5	265705.000	2.5
690.4077	30.02	-1.42	221143.700	3.0	235623.900	3.0
690.4254	28.01	-4.03	100389.520	2.5	114869.350	1.5
690.4325	23.00	-3.01	17242.050	5.5	31721.730	4.5
690.4360	40.00	-2.99	1209.863	0.0	15693.465	0.0
690.4454	18.01	-1.12	190106.230	1.5	204585.640	2.5
690.4783	22.01	-3.99	52458.980	1.5	66937.700	2.5
690.4850	25.01	-4.79	53805.800	4.0	68284.380	3.0
690.4906	22.00	-3.50	27480.047	3.0	41958.510	2.0
690.5195	17.00	-3.13	83364.927	.5	97842.783	1.5
690.5269	23.02	-.11	146549.620	4.5	161027.320	4.5
690.5269	28.01	.31	119773.600	6.5	134251.300	7.5
690.5482	22.00	-3.46	21588.496	4.0	36065.750	3.0
690.5541	28.01	.09	122047.290	3.5	136524.420	4.5
690.5546	26.01	-3.45	58666.360	3.5	73143.480	3.5
690.5642	22.01	-5.91	15257.530	4.5	29734.450	3.5
690.5913	28.01	-4.25	115739.150	4.5	130215.500	4.5
690.5913	28.01	-4.18	100609.010	2.5	115085.360	3.5
690.5940	29.00	-.78	56621.579	0.0	71101.867	0.0
690.6112	22.00	-.92	26892.926	3.0	41368.860	4.0
690.6371	28.01	-3.45	105668.780	2.5	120144.170	2.5
690.6449	26.00	-3.49	40404.492	1.0	54879.720	2.0
690.6625	8.01	-.01	231427.990	3.5	245902.850	2.5
690.6752	28.00	-.52	44565.100	3.0	59039.693	4.0
690.6863	24.00	-3.25	42908.570	4.0	57382.930	5.0
690.7254	26.00	-2.35	33765.291	2.0	48238.832	2.0
690.7370	40.00	-1.54	10969.423	0.0	25446.713	0.0
690.7707	14.00	-3.17	50189.389	2.0	64661.980	3.0
690.7836	27.00	-4.93	41104.960	2.5	55577.280	1.5
690.8070	27.00	-1.92	27497.060	2.5	41968.890	2.5
690.8070	41.00	-1.98	9356.272	0.0	23832.095	0.0
690.8108	8.01	-.39	231296.050	1.5	245767.800	.5
690.8200	42.01	-2.84	11050.080	0.0	25525.631	0.0
690.8260	39.00	-1.75	14840.984	0.0	29316.409	0.0
690.8290	74.00	-2.94	13227.833	0.0	27703.195	0.0
690.8419	24.00	-2.56	34190.490	2.0	48661.590	3.0
690.8562	17.01	-.37	159574.200	2.0	174045.000	3.0
690.8591	24.00	-4.05	46637.210	3.0	61107.950	2.0
690.8896	8.01	-1.60	251220.900	3.5	265691.000	3.5
690.8934	20.02	-.92	359156.830	1.0	373626.850	2.0
690.9000	8.04	-2.36	689890.000	0.0	704363.875	0.0
690.9006	28.01	-3.37	105439.850	1.5	119909.720	1.5
690.9068	28.01	-4.91	115739.150	4.5	130208.890	3.5
690.9321	24.01	-4.43	50687.630	2.5	65156.840	2.5
690.9323	22.00	-3.33	21739.713	5.0	36208.920	4.0
690.9470	22.00	-1.29	29912.262	3.0	44381.160	4.0
690.9484	23.00	-8.36	14949.300	4.5	29418.170	3.5
690.9493	22.01	-6.15	15265.600	3.5	29734.450	3.5
690.9810	62.01	-1.74	12743.888	0.0	27216.066	0.0
690.9812	9.00	-.19	102840.376	.5	117308.558	1.5
691.0019	28.01	-4.78	115739.150	4.5	130206.900	4.5
691.0143	28.01	-4.62	119913.330	4.5	134380.820	3.5
691.0170	63.00	-.06	21454.900	0.0	35926.324	0.0
691.0257	25.00	-4.39	45013.550	2.5	59480.800	2.5
691.0387	17.00	-1.81	85244.330	.5	99711.309	.5
691.0425	8.01	-4.01	251224.100	2.5	265691.000	3.5
691.0630	28.01	-3.86	115739.150	4.5	130205.620	5.5
691.0644	22.00	-3.82	29914.720	3.0	44381.160	4.0
691.0712	15.00	-2.81	66834.500	1.5	81300.800	1.5
WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
691.0749	22.01	-2.97	52471.480	2.5	66937.700	2.5
691.0755	8.01	-.19	231350.080	2.5	245816.290	1.5
691.0850	27.00	-3.93	17233.680	3.5	31699.690	4.5
691.0859	26.02	-2.45	186712.020	1.0	201178.010	1.0
691.1083	19.00	-1.48	12985.170	.5	27450.690	.5
691.1327	8.01	-2.09	233544.090	1.5	248009.100	1.5
691.1400	72.00	-2.18	8872.327	0.0	23341.176	0.0
691.1404	24.00	-3.66	35640.690	0.0	50105.540	1.0
691.1409	28.01	-1.70	119773.600	6.5	134238.440	6.5
691.1447	25.00	-3.45	48168.010	4.5	62632.770	3.5
691.1480	44.00	.36	29278.680	0.0	43747.361	0.0
691.1519	26.00	-4.60	19552.474	1.0	34017.084	1.0
691.1547	28.01	-.52	121180.550	5.5	135645.100	5.5
691.1710	24.00	-4.06	42908.570	4.0	57372.780	4.0
691.1757	14.00	-2.98	49399.670	1.0	63863.780	2.0
691.1786	18.01	-2.43	190592.170	1.5	205056.220	1.5
691.1886	20.02	-.30	350900.040	2.0	365363.880	1.0
691.1925	28.01	-.87	122084.790	1.5	136548.550	2.5
691.2527	15.04	-.03	376639.200	.5	391101.700	.5
691.3005	28.01	-2.86	115870.280	2.5	130331.780	1.5
691.3135	22.00	-1.98	21739.713	5.0	36200.940	5.0
691.3196	30.02	-2.94	285592.100	2.0	300053.200	2.0
691.3225	23.02	-.58	147127.000	2.5	161588.040	3.5
691.3698	26.01	-3.15	58631.650	4.5	73091.700	4.5
691.3732	28.01	-2.33	121180.550	5.5	135640.530	4.5
691.3944	22.00	-1.70	27498.975	3.0	41958.510	2.0
691.4010	42.00	-2.03	20164.380	0.0	34627.767	0.0
691.4375	14.00	-1.80	49028.294	0.0	63486.930	1.0
691.4454	26.01	-3.53	49101.090	.5	63559.560	.5
691.4473	23.02	-.38	146223.050	3.5	160681.480	3.5
691.4559	28.00	-2.67	15734.018	1.0	30192.268	0.0
691.4634	14.00	-1.53	50189.389	2.0	64647.480	3.0
691.4640	26.02	-2.25	186712.020	1.0	201170.100	0.0
691.4688	23.00	-4.35	19023.470	4.5	33481.450	3.5
691.4820	63.00	.30	21616.215	0.0	36077.907	0.0
691.4865	25.00	-3.63	48021.430	5.5	62479.040	4.5
691.4917	17.01	-1.22	158786.400	3.0	173243.900	4.0
691.4932	23.00	-3.38	20767.570	3.5	35225.040	2.5
691.4969	14.00	-4.54	50189.389	2.0	64646.780	2.0
691.4970	9.02	-1.42	453369.770	1.5	467827.160	1.5
691.5310	92.00	-1.80	5726.684	0.0	20187.352	0.0
691.5353	25.00	-3.93	45013.550	2.5	59470.140	3.5
691.5606	28.01	-3.46	105588.890	4.5	120044.950	4.5
691.5659	29.01	-1.15	136919.350	3.0	151375.300	2.0
691.5885	22.00	-.73	27025.652	4.0	41481.130	5.0
691.6061	23.00	-3.80	19026.340	2.5	33481.450	3.5
691.6228	28.01	-1.97	121190.340	4.5	135645.100	5.5
691.6544	17.01	-1.63	158768.600	2.0	173222.700	3.0
691.6570	64.00	-1.72	161.315	0.0	14619.348	0.0
691.6654	26.00	-1.14	33507.102	3.0	47960.973	4.0
691.6661	22.00	-3.52	27418.015	2.0	41871.870	2.0
691.6870	40.00	-2.47	4839.451	0.0	19296.857	0.0
691.6879	13.01	-2.49	133679.300	3.0	148132.700	2.0
691.6889	28.01	-1.34	119833.000	5.5	134286.380	4.5
691.6998	14.00	-1.88	49188.617	2.0	63641.770	3.0
691.7023	14.00	-2.86	49850.830	2.0	64303.930	3.0
691.7050	92.00	-1.72	3710.246	0.0	18167.276	0.0
691.7099	25.01	-3.19	93719.600	0.0	108172.540	1.0
691.7109	9.02	-3.89	441315.800	.5	455768.720	.5
691.7229	24.00	-4.19	42908.570	4.0	57361.240	3.0
691.7240	57.00	-1.88	3468.273	0.0	17924.906	0.0
691.7363	25.00	-1.37	48300.980	1.5	62753.370	2.5
691.7382	7.00	-4.62	83317.800	1.5	97770.150	.5
691.7458	26.02	-3.98	186712.020	1.0	201164.210	2.0
691.7756	22.00	-4.25	33655.853	2.0	48107.420	2.0
691.7832	26.01	-3.65	71964.810	2.5	86416.220	3.5
691.7841	28.01	-4.61	121294.670	4.5	135746.060	3.5
691.7932	28.01	-4.00	115785.060	1.5	130236.260	2.5
691.8076	13.01	-.09	124792.000	2.0	139242.900	3.0
691.8148	24.00	-3.94	35813.730	3.0	50264.480	3.0
691.8300	57.00	-2.53	1048.548	0.0	15502.966	0.0
691.8320	41.00	-1.40	13308.491	0.0	27762.867	0.0
691.8400	28.00	-3.59	42653.723	2.0	57103.946	3.0
691.8416	28.01	-.61	121190.340	4.5	135640.530	4.5
691.8555	24.00	-4.37	27703.840	4.0	42153.740	5.0
691.8590	14.00	-1.27	49933.775	3.0	64383.600	4.0
691.8751	23.00	-3.70	19078.150	3.5	33527.640	2.5
691.9033	13.01	-3.64	132819.900	2.0	147268.800	1.0
691.9033	13.01	-4.12	132819.900	1.0	147268.800	1.0
691.9148	28.01	-.46	119833.000	5.5	134281.660	5.5
691.9270	58.01	-1.35	13469.806	0.0	27922.198	0.0
691.9531	28.01	-1.55	121180.550	5.5	135628.410	4.5
691.9943	13.01	-.16	106918.200	1.0	121365.200	0.0
692.0064	22.00	-4.44	33660.671	1.0	48107.420	2.0
692.0135	26.00	-3.78	37157.546	2.0	51604.146	3.0
692.0197	28.01	-1.65	122084.790	1.5	136531.260	1.5
692.0236	26.00	-2.38	44378.420	1.0	58824.810	2.0
692.0280	17.00	-2.70	88080.042	2.5	102526.340	2.5
692.0318	17.00	-1.40	88080.042	2.5	102526.260	3.5
692.0418	15.01	-1.65	88894.000	1.0	103340.010	2.0
692.0427	22.00	-6.35	12118.394	4.0	26564.385	3.0
692.0489	24.00	-2.24	35572.940	2.0	50018.800	1.0
692.0620	64.01	-.87	17663.997	0.0	32113.569	0.0
692.0718	22.00	-1.97	28702.768	3.0	43148.150	3.0
692.0916	14.00	-1.18	49399.670	1.0	63844.640	0.0
692.1318	24.00	-.61	48217.830	2.0	62661.960	3.0
692.1333	8.01	-2.86	251220.900	3.5	265665.000	2.5
692.1564	22.00	-1.75	28788.372	4.0	43231.990	4.0
692.1669	9.02	-1.94	376814.020	2.5	391257.420	2.5
692.2004	24.00	-4.85	28682.180	2.0	43124.880	2.0
692.2143	23.02	-.97	147127.000	2.5	161569.410	1.5
692.2230	40.00	-2.02	12663.231	0.0	27109.443	0.0
692.2297	22.00	-2.18	28638.832	2.0	43080.920	2.0
692.2521	28.01	-1.09	119833.000	5.5	134274.620	5.5
692.2559	10.01	-4.92	291801.880	1.5	306243.420	2.5
692.2619	26.00	-4.34	37162.729	3.0	51604.146	3.0
692.2866	8.01	-1.71	251224.100	2.5	265665.000	2.5
692.2921	26.00	-3.98	39625.784	4.0	54066.570	4.0
692.2943	23.01	-3.04	32299.240	1.0	46739.980	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
692.3230	44.00	.64	26697.639	0.0	41141.764	0.0
692.3599	22.00	-3.07	31628.668	5.0	46068.040	4.0
692.3729	24.00	-1.36	35618.510	1.0	50057.610	2.0
692.3749	28.01	-1.69	121190.340	4.5	135629.400	3.5
692.3801	24.01	-2.65	74484.250	2.5	88923.200	2.5
692.3940	22.00	-1.19	31805.940	2.0	46244.600	2.0
692.3974	28.01	-1.74	119833.000	5.5	134271.590	4.5
692.4190	24.00	-2.14	27820.230	3.0	42258.370	4.0
692.4223	28.01	-2.69	121190.340	4.5	135628.410	4.5
692.4232	22.00	-1.80	27614.667	4.0	42052.720	3.0
692.4358	14.01	-2.40	113760.410	3.5	128198.200	3.5
692.4358	14.01	-.86	113760.410	3.5	128198.200	4.5
692.4359	22.00	-2.29	28596.293	1.0	43034.080	1.0
692.4439	14.01	-.97	113760.580	2.5	128198.200	3.5
692.4444	28.01	-3.98	107737.810	1.5	122175.420	2.5
692.4470	17.00	-1.72	85244.330	.5	99681.887	1.5
692.4655	25.00	-2.04	44978.980	1.5	59416.150	1.5
692.4708	25.00	.03	42053.730	2.5	56490.790	2.5
692.4735	22.00	-3.03	27480.047	3.0	41917.050	4.0
692.4823	23.02	-1.95	146139.800	2.5	160576.620	3.5
692.4895	28.01	-3.18	101754.800	2.5	116191.470	2.5
692.4948	24.00	-2.48	48210.040	1.0	62646.600	2.0
692.5003	18.00	-2.69	107496.463	1.0	121932.908	1.0
692.5048	22.00	-3.06	17369.590	1.0	31805.940	2.0
692.5073	17.01	-2.67	158786.400	3.0	173222.700	3.0
692.5144	27.00	-3.66	32654.500	2.5	47090.650	2.5
692.5202	24.00	-2.25	27820.230	3.0	42256.260	3.0
692.5240	57.00	-.93	6936.547	0.0	21376.480	0.0
692.5259	23.00	-2.70	20789.130	2.5	35225.040	2.5
692.5270	17.00	-2.12	85735.091	1.5	100170.980	1.5
692.5557	24.00	-4.06	27816.880	5.0	42252.170	6.0
692.5618	17.00	-1.81	82918.893	2.5	97354.057	1.5
692.5919	22.00	-1.71	27750.124	5.0	42184.660	4.0
692.6037	24.00	-2.67	27820.230	3.0	42254.520	2.0
692.6080	28.01	-.79	119833.000	5.5	134267.200	6.5
692.6172	22.00	-1.56	28896.062	5.0	43330.070	5.0
692.6190	72.00	-2.20	13953.751	0.0	28391.703	0.0
692.6397	26.00	-3.80	36975.640	3.0	51409.180	4.0
692.6490	64.00	-1.01	10162.848	0.0	24600.175	0.0
692.6655	7.00	-1.51	95493.660	1.5	109926.661	2.5
692.6939	28.01	-4.94	122084.790	1.5	136517.200	.5
692.7011	28.01	-2.86	121190.340	4.5	135622.600	3.5
692.7030	62.01	-2.07	9356.272	0.0	23792.473	0.0
692.7260	6.00	-2.26	69689.480	1.0	84121.220	0.0
692.7380	73.00	-1.44	13227.833	0.0	27663.305	0.0
692.7721	24.00	-5.00	24299.890	2.0	38730.670	2.0
692.7851	26.01	-4.64	72169.150	1.5	86599.660	2.5
692.8187	28.00	-4.13	29832.810	3.0	44262.619	2.0
692.8517	28.00	-4.17	15734.018	1.0	30163.140	2.0
692.8540	73.00	-1.44	13227.833	0.0	27660.888	0.0
692.8686	24.00	-.78	48217.830	2.0	62646.600	2.0
692.8802	29.01	-3.56	130386.400	2.0	144814.930	3.0
692.8874	24.00	-4.08	27597.220	3.0	42025.600	3.0
692.8975	28.01	-4.04	121317.890	3.5	135746.060	3.5
692.9335	28.00	-3.01	44565.100	3.0	58992.520	2.0
692.9368	14.00	-2.99	50189.389	2.0	64616.740	2.0
692.9397	22.00	-2.93	33680.130	3.0	48107.420	2.0
692.9467	10.00	.03	135888.717	1.0	150315.861	2.0
692.9723	6.00	-2.26	69689.480	1.0	84116.090	1.0
692.9858	14.00	-2.53	49060.601	1.0	63486.930	1.0
692.9880	77.00	-2.20	15970.189	0.0	30400.453	0.0
692.9957	26.00	-8.11	12968.552	2.0	27394.676	3.0
693.0132	24.00	-2.21	38537.680	5.0	52963.440	4.0
693.0137	28.01	.26	121180.550	5.5	135606.300	6.5
693.0185	28.01	-1.63	121180.550	5.5	135606.200	5.5
693.0228	9.02	-2.62	426733.040	2.5	441158.600	1.5
693.0334	26.01	-3.87	58666.360	3.5	73091.700	4.5
693.0391	10.01	-2.43	303237.910	1.5	317663.130	1.5
693.0410	62.01	-1.88	10888.765	0.0	25317.926	0.0
693.0641	26.00	-2.30	36940.600	2.0	51365.300	3.0
693.0656	28.01	-4.85	112906.930	1.5	127331.600	2.5
693.0663	26.00	-2.36	44285.436	2.0	58710.090	3.0
693.0689	17.01	-1.72	144344.000	2.0	158768.600	2.0
693.0805	25.00	-1.12	42143.570	1.5	56567.930	1.5
693.0853	23.00	-1.64	17116.920	3.5	31541.180	3.5
693.0973	22.00	-4.37	25102.880	2.0	39526.890	2.0
693.1040	25.01	-4.58	90596.800	2.0	105020.670	1.0
693.1143	28.00	-3.88	44206.185	3.0	58629.840	2.0
693.1175	28.01	-4.26	121699.020	1.5	136122.610	2.5
693.1184	25.00	.54	41932.640	3.5	56356.210	3.5
693.1283	28.00	-3.13	44206.185	3.0	58629.550	3.0
693.1309	28.01	-4.51	122812.970	3.5	137236.280	3.5
693.1319	26.01	-3.62	83871.310	4.5	98294.600	5.5
693.1400	42.00	-1.87	20245.038	0.0	34672.138	0.0
693.1847	28.00	-5.81	13521.352	2.0	27943.543	1.0
693.1862	28.01	-4.49	121561.060	.5	135983.220	1.5
693.2153	26.00	-3.08	33412.706	3.0	47834.260	3.0
693.2251	28.01	-3.36	101144.630	3.5	115565.980	2.5
693.2251	27.00	-4.28	27497.060	2.5	41918.410	3.5
693.2380	40.00	-1.74	11534.025	0.0	25959.085	0.0
693.2718	15.00	-1.68	67113.820	2.5	81534.200	3.5
693.2904	17.00	-1.69	82918.893	2.5	97338.887	2.5
693.2905	25.00	-3.33	45060.810	3.5	59480.800	2.5
693.3012	26.00	-2.28	33801.555	2.0	48221.323	1.0
693.3154	22.00	-.56	25107.417	2.0	39526.890	2.0
693.3175	17.00	-4.26	84988.480	1.5	99407.907	.5
693.3222	28.01	-3.91	115000.250	3.5	129419.580	4.5
693.3285	24.00	-3.62	46637.210	3.0	61056.410	4.0
693.3338	24.00	-.54	48251.910	3.0	62671.000	4.0
693.3420	28.01	-2.78	101366.140	2.5	115785.060	1.5
693.3450	28.00	-1.11	43258.792	4.0	57677.649	5.0
693.3520	39.00	-3.48	483.945	0.0	14906.634	0.0
693.3626	26.00	-3.54	19621.004	5.0	34039.495	4.0
693.3657	26.00	-2.30	33412.706	3.0	47831.132	2.0
693.3708	28.01	-1.06	122112.940	.5	136531.260	1.5
693.3814	8.01	-2.02	251220.900	3.5	265639.000	3.5
693.3826	22.00	-.20	27498.975	3.0	41917.050	4.0
693.3881	18.01	-.50	204585.640	2.5	219003.600	2.5
693.4040	70.01	-.82	33311.556	0.0	47733.163	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
693.4100	42.01	-2.80	11372.710	0.0	25794.192	0.0
693.4160	23.00	-8.05	2311.370	3.5	16728.750	4.5
693.4270	74.00	-2.54	14840.984	0.0	29262.113	0.0
693.4305	26.00	-3.16	36686.159	4.0	51103.237	5.0
693.4391	24.01	-4.60	74920.800	.5	89337.700	1.5
693.4396	9.02	.11	426989.570	3.5	441406.460	3.5
693.4535	30.02	-3.65	285592.100	2.0	300008.700	1.0
693.4747	18.01	-1.67	204585.640	2.5	219001.800	1.5
693.4891	28.01	.18	121190.340	4.5	135606.200	5.5
693.4920	24.01	-3.20	74854.080	.5	89269.880	.5
693.5007	24.00	-3.83	46783.060	4.0	61198.680	3.0
693.5010	57.00	-1.54	3468.273	0.0	17887.863	0.0
693.5142	9.02	.28	427731.850	2.5	442147.190	2.5
693.5267	23.00	-4.48	23088.060	1.5	37503.140	2.5
693.5353	8.01	-3.51	251224.100	2.5	265639.000	3.5
693.5575	24.00	-4.58	35398.020	4.0	49812.460	3.0
693.5652	28.01	-2.95	105499.050	3.5	119913.330	4.5
693.5900	22.00	-.46	25227.217	3.0	39640.980	3.0
693.5944	26.00	-3.58	44411.137	1.0	58824.810	2.0
693.5969	6.00	-3.87	69689.480	1.0	84103.100	2.0
693.6282	19.00	-2.61	12985.170	.5	27398.140	1.5
693.6287	28.01	-4.94	101754.800	2.5	116167.760	1.5
693.6513	28.01	-3.24	99340.550	3.5	113753.040	4.5
693.6725	23.00	-2.91	20812.990	1.5	35225.040	2.5
693.6956	23.00	-4.25	23519.840	4.5	37931.410	5.5
693.7153	23.00	-4.44	24830.180	1.5	39241.340	2.5
693.7341	26.02	-2.44	186882.980	3.0	201293.750	2.0
693.7548	29.01	-.97	108335.430	2.0	122745.770	2.0
693.7672	22.00	-4.40	29971.078	4.0	44381.160	4.0
693.7687	24.00	-1.69	48251.910	3.0	62661.960	3.0
693.7699	18.00	-2.23	104102.144	1.0	118512.170	0.0
693.7779	22.01	-2.66	25193.040	2.5	39602.900	1.5
693.7899	26.00	-4.41	39969.830	3.0	54379.440	3.0
693.8034	25.00	-2.72	45060.810	3.5	59470.140	3.5
693.8200	22.00	-2.50	20126.055	3.0	34535.040	2.0
693.8304	18.01	-1.86	190106.230	1.5	204515.000	.5
693.8540	15.00	-3.41	67113.820	2.5	81522.100	2.5
693.8766	19.00	-1.17	13042.880	1.5	27450.690	.5
693.9026	28.01	-4.15	100592.980	3.5	115000.250	3.5
693.9262	25.00	-1.45	48225.990	3.5	62632.770	3.5
693.9402	18.02	-4.39	231627.300	1.0	246033.790	2.0
693.9436	28.01	-1.89	122140.710	4.5	136547.130	3.5
693.9667	23.00	-3.80	24992.880	3.5	39398.820	3.5
693.9691	26.00	-3.56	39969.830	3.0	54375.719	2.0
693.9739	28.01	-.68	122140.710	4.5	136546.500	4.5
693.9893	25.00	-3.80	44978.980	1.5	59384.450	1.5
693.9908	28.01	.18	119833.000	5.5	134238.440	6.5
693.9913	6.00	-2.16	69710.660	2.0	84116.090	1.0
694.0035	22.00	-4.34	27418.015	2.0	41823.190	3.0
694.0129	23.00	-3.97	23353.090	3.5	37758.070	4.5
694.0312	26.00	-4.18	40207.120	3.0	54611.720	2.0
694.0404	23.00	-4.07	23210.560	2.5	37614.970	3.5
694.0476	28.01	-.74	122112.940	.5	136517.200	.5
694.0813	28.01	-1.09	122144.990	2.5	136548.550	2.5
694.0918	22.00	-.14	27614.667	4.0	42018.010	5.0
694.0939	23.00	-2.18	19078.150	3.5	33481.450	3.5
694.1085	22.00	-3.01	33655.853	2.0	48058.850	1.0
694.1088	25.00	-2.79	30411.740	.5	44814.730	1.5
694.1165	28.01	-1.14	121227.800	2.5	135630.630	2.5
694.1218	23.01	-6.47	20343.000	2.0	34745.720	3.0
694.1247	28.01	-2.83	116167.760	1.5	130570.420	.5
694.1276	25.00	-4.84	45013.550	2.5	59416.150	1.5
694.1281	24.00	-3.22	48288.370	4.0	62690.960	5.0
694.1324	30.02	-4.10	285723.500	3.0	300126.000	4.0
694.1343	18.02	-4.16	231627.300	1.0	246029.760	1.0
694.1498	28.01	-.41	122144.990	2.5	136547.130	3.5
694.1560	62.01	-1.97	10082.190	0.0	24488.174	0.0
694.1618	24.00	-3.52	46783.060	4.0	61184.950	5.0
694.1729	24.00	-2.14	35862.820	4.0	50264.480	3.0
694.1753	7.01	-.61	188857.370	2.0	203258.980	2.0
694.1758	28.01	-.97	121227.800	2.5	135629.400	3.5
694.1773	28.01	-2.22	122140.710	4.5	136542.280	3.5
694.1782	18.01	-3.77	158428.030	.5	172829.580	1.5
694.1869	23.02	-.98	145978.270	2.5	160379.640	2.5
694.2390	24.00	-1.53	35618.510	1.0	50018.800	1.0
694.2485	28.00	-4.34	40361.254	3.0	54761.346	4.0
694.2544	25.00	.88	41789.480	4.5	56189.450	4.5
694.2544	23.01	-3.84	22273.540	1.0	36673.510	2.0
694.2674	28.01	-4.84	121180.550	5.5	135580.250	4.5
694.2708	28.01	-.26	121240.900	3.5	135640.530	4.5
694.2820	26.00	-3.12	33412.706	3.0	47812.104	4.0
694.2848	9.02	-.45	453369.770	1.5	467769.110	.5
694.2901	17.00	-1.28	83130.900	1.5	97530.130	2.5
694.3055	28.01	-3.33	122120.370	5.5	136519.280	4.5
694.3132	28.01	-4.76	115827.120	3.5	130225.870	3.5
694.3354	24.00	-4.49	36552.130	3.0	50950.420	3.0
694.3428	26.00	-3.63	33765.291	2.0	48163.427	2.0
694.3610	90.00	-1.00	9759.560	0.0	24161.291	0.0
694.3620	18.02	-2.56	211004.850	2.0	225402.590	3.0
694.3684	22.00	-.36	25388.334	4.0	39785.940	4.0
694.3836	28.01	-.32	122144.990	2.5	136542.280	3.5
694.3960	71.01	-.52	35489.309	0.0	49890.314	0.0
694.4019	28.01	-3.68	119889.470	5.5	134286.380	4.5
694.4058	25.00	-4.23	47903.800	4.5	62300.630	4.5
694.4188	23.00	-4.98	15724.220	3.5	30120.780	2.5
694.4560	28.01	-1.83	121227.800	2.5	135623.590	1.5
694.4627	24.00	-3.68	33935.650	2.0	48331.300	1.0
694.4641	15.00	-2.87	65787.380	3.5	80183.000	2.5
694.4650	14.00	-2.87	49188.617	2.0	63584.220	1.0
694.4699	17.01	-4.50	158177.100	1.0	172572.600	2.0
694.4821	22.00	-2.53	28638.832	2.0	43034.080	1.0
694.4878	23.00	-4.94	23608.800	1.5	38003.930	1.5
694.4883	25.00	-3.43	30419.610	2.5	44814.730	1.5
694.4953	22.00	-.57	29986.185	3.0	44381.160	4.0
694.5037	28.01	-.34	121227.800	2.5	135622.600	3.5
694.5090	24.00	-1.11	48251.910	3.0	62646.600	2.0
694.5162	7.00	-1.14	95532.120	2.5	109926.661	2.5
694.5208	26.00	-2.66	19552.474	1.0	33946.920	2.0
694.5277	26.00	-4.97	26623.726	2.0	41018.029	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
694.5505	20.02	-.52	326186.320	3.0	340580.150	3.0
694.5636	25.02	-3.12	121117.140	3.5	135510.700	2.5
694.5980	64.01	-.96	17744.654	0.0	32141.471	0.0
694.6070	41.00	-1.80	13308.491	0.0	27705.121	0.0
694.6149	22.00	-3.47	21739.713	5.0	36132.210	4.0
694.6176	6.00	-2.79	69710.660	2.0	84103.100	2.0
694.6297	28.01	-1.96	119889.470	5.5	134281.660	5.5
694.6321	27.00	-3.96	18389.570	1.5	32781.710	2.5
694.6335	28.01	-1.08	121227.800	2.5	135619.910	1.5
694.6474	22.00	-3.81	27480.047	3.0	41871.870	2.0
694.6601	25.00	-.27	47903.800	4.5	62295.360	5.5
694.6750	42.01	-1.28	26939.612	0.0	41334.833	0.0
694.6780	23.01	-3.28	32299.240	1.0	46690.430	1.0
694.6870	22.00	-1.00	26803.417	2.0	41194.420	3.0
694.6924	28.01	-1.66	101754.800	2.5	116145.690	3.5
694.6939	25.00	-1.43	47903.800	4.5	62294.660	3.5
694.7035	24.01	-4.81	32836.840	3.5	47227.500	3.5
694.7219	28.01	-.52	121227.800	2.5	135618.080	2.5
694.7305	22.00	-2.47	19937.859	1.0	34327.960	1.0
694.7390	42.00	-1.81	20245.038	0.0	34638.933	0.0
694.7484	28.01	-1.20	121240.900	3.5	135630.630	2.5
694.7518	26.00	-1.87	36975.640	3.0	51365.300	3.0
694.7827	25.00	-2.70	30425.710	1.5	44814.730	1.5
694.7837	9.03	-.36	665409.000	2.0	679798.000	2.0
694.7837	9.03	-1.54	665409.000	2.0	679798.000	1.0
694.8025	26.01	-3.53	58666.360	3.5	73054.970	2.5
694.8035	28.01	-1.50	116512.060	3.5	130900.650	2.5
694.8078	28.01	-.41	121240.900	3.5	135629.400	3.5
694.8121	28.00	-1.78	42585.296	4.0	56973.707	5.0
694.8136	28.01	-3.54	115827.120	3.5	130215.500	4.5
694.8460	40.00	-1.51	11130.738	0.0	25522.416	0.0
694.8556	78.01	-.58	121240.900	3.5	135628.410	4.5
694.8822	26.02	-4.08	151757.670	2.0	166144.630	2.0
694.9097	23.00	-9.15	14910.040	3.5	29296.430	2.5
694.9155	28.01	-2.28	122144.990	2.5	136531.260	1.5
694.9175	26.02	-1.91	186791.780	2.0	201178.010	1.0
694.9503	25.02	-2.01	218375.610	4.5	232761.160	5.5
694.9566	18.01	-1.64	190592.170	1.5	204977.590	2.5
694.9638	28.01	-.84	119909.720	1.5	134294.990	2.5
694.9696	28.01	-.27	119889.470	5.5	134274.620	5.5
694.9923	26.01	-3.72	58631.650	4.5	73016.330	3.5
694.9962	30.02	-4.02	285723.500	3.0	300108.100	3.0
695.0141	29.01	-.56	137034.970	3.0	151419.200	3.0
695.0141	18.01	-4.76	204937.800	4.5	219322.030	5.5
695.0310	39.00	-.76	18873.860	0.0	33261.707	0.0
695.0392	28.01	-1.55	122140.710	4.5	136524.420	4.5
695.0510	62.01	-1.94	7985.094	0.0	22372.527	0.0
695.0629	10.01	-4.51	303279.910	2.5	317663.130	1.5
695.0726	9.02	-3.60	466978.150	1.5	481361.170	1.5
695.0813	9.02	-4.24	441385.880	1.5	455768.720	.5
695.0819	26.00	-4.67	20874.482	3.0	35257.309	4.0
695.0996	25.00	-4.93	51638.170	2.5	66020.630	2.5
695.1160	28.01	-1.00	119889.470	5.5	134271.590	4.5
695.1176	22.00	-2.79	17423.853	2.0	31805.940	2.0
695.1227	28.00	-2.35	44206.185	3.0	58588.168	3.0
695.1247	26.00	-1.16	36766.950	3.0	51148.892	2.0
695.1260	73.00	-1.78	13227.833	0.0	27613.714	0.0
695.1267	24.00	-4.97	31352.420	1.0	45734.320	2.0
695.1330	28.01	-3.80	115827.120	3.5	130208.890	3.5
695.1344	25.00	-2.51	44978.980	1.5	59360.720	2.5
695.1363	28.01	-.98	121240.900	3.5	135622.600	3.5
695.1431	25.02	-4.98	194908.200	5.5	209289.760	6.5
695.1471	18.00	-2.75	106237.597	2.0	120619.076	2.0
695.1528	28.01	-3.60	121111.900	.5	135493.260	1.5
695.1586	7.00	-1.56	95475.280	.5	109856.520	1.5
695.1590	26.00	-2.48	34547.192	2.0	48928.423	2.0
695.1680	39.01	-2.24	14760.326	0.0	29145.338	0.0
695.1707	28.01	-4.69	100619.260	4.5	115000.250	3.5
695.1745	25.01	-4.98	54938.100	1.0	69319.010	0.0
695.1910	24.00	-4.03	48310.390	5.0	62690.960	5.0
695.2185	24.00	-3.97	46524.840	2.0	60904.840	3.0
695.2330	17.01	-.59	144344.000	2.0	158723.700	1.0
695.2510	57.01	-3.96	1371.178	0.0	15754.473	0.0
695.2606	27.00	-4.84	15184.040	2.5	29563.170	1.5
695.2722	24.01	-3.44	90986.310	3.5	105365.200	4.5
695.2765	8.02	-.30	358667.400	1.0	373046.200	0.0
695.2959	28.01	-4.52	100490.950	1.5	114869.350	1.5
695.2983	9.02	-3.26	376879.070	3.5	391257.420	2.5
695.3002	9.02	-2.56	466982.860	2.5	481361.170	1.5
695.3020	26.00	-3.62	29056.312	3.0	43434.585	3.0
695.3058	14.00	-1.41	49933.775	3.0	64311.970	4.0
695.3075	10.01	-4.31	303824.230	3.5	318202.390	2.5
695.3079	22.00	-2.32	28702.768	3.0	43080.920	2.0
695.3099	24.00	-1.60	35640.690	0.0	50018.800	1.0
695.3172	28.01	-4.43	120002.860	3.5	134380.820	3.5
695.3268	27.00	-4.64	33150.680	1.5	47528.440	.5
695.3283	28.01	.09	119889.470	5.5	134267.200	6.5
695.3302	10.01	-4.48	303824.680	2.5	318202.370	1.5
695.3312	28.01	-4.44	121115.590	1.5	135493.260	1.5
695.3510	24.00	-3.26	38537.680	5.0	52914.940	6.0
695.3544	28.01	-4.78	57080.550	3.5	71457.740	3.5
695.3549	28.01	-1.23	121240.900	3.5	135618.080	2.5
695.3780	42.00	-1.22	26052.379	0.0	40433.047	0.0
695.3840	40.00	-1.55	5162.081	0.0	19542.625	0.0
695.3880	73.00	-1.46	17099.394	0.0	31479.855	0.0
695.4023	24.00	-3.65	35807.900	2.0	50184.100	2.0
695.4134	24.00	-4.48	27703.840	4.0	42079.810	4.0
695.4308	28.01	-1.89	122812.970	3.5	137188.580	4.5
695.4520	57.01	-3.84	0.000	0.0	14379.138	0.0
695.4541	28.01	-3.99	107737.810	1.5	122112.940	.5
695.4570	28.01	-3.08	115956.710	2.5	130331.780	1.5
695.4724	29.01	-2.12	137044.450	4.0	151419.200	3.0
695.4797	30.02	-3.38	285723.500	3.0	300098.100	4.0
695.5032	28.00	-1.55	29888.505	2.0	44262.619	2.0
695.5221	22.00	-2.21	27614.667	4.0	41988.390	3.0
695.5259	22.00	-.06	27750.124	5.0	42123.770	6.0
695.5286	24.00	-4.04	48288.370	4.0	62661.960	3.0
695.5290	62.01	-1.11	10162.848	0.0	24540.394	0.0
695.5508	28.01	-.66	122175.420	2.5	136548.550	2.5
695.5547	28.01	-.54	119913.330	4.5	134286.380	4.5
695.5552	24.01	-4.26	32854.460	4.5	47227.500	3.5
695.5622	22.00	-2.55	27498.975	3.0	41871.870	2.0
695.5721	24.00	-4.07	36577.730	4.0	50950.420	3.0
695.5847	26.02	-2.62	186791.780	2.0	201164.210	2.0
695.6020	76.00	.14	34198.789	0.0	48574.826	0.0
695.6079	9.02	-4.03	441276.720	2.5	455648.670	1.5
695.6196	28.01	-.51	122175.420	2.5	136547.130	3.5
695.6588	25.00	-3.08	45013.550	2.5	59384.450	1.5
695.6728	14.00	-.91	49399.670	1.0	63770.280	1.0
695.6844	24.00	-2.13	35813.730	3.0	50184.100	2.0
695.6941	24.00	-4.18	31352.420	1.0	45722.590	0.0
695.6948	14.00	-2.62	49933.775	3.0	64303.930	3.0
695.7028	24.00	-3.63	31364.330	3.0	45734.320	2.0
695.7154	25.01	-4.97	54846.000	0.0	69215.730	1.0
695.7328	25.00	.14	42198.560	.5	56567.930	1.5
695.7590	29.01	-1.50	137034.970	3.0	151403.800	2.0
695.7769	28.01	-4.21	121190.340	4.5	135558.800	4.5
695.7818	16.01	-4.27	114230.750	2.5	128599.110	3.5
695.7832	28.01	-.36	119913.330	4.5	134281.660	5.5
695.7900	29.01	-4.94	116576.810	0.0	130945.000	1.0
695.7953	24.00	-3.14	34190.490	2.0	48558.570	2.0
695.8040	39.00	-1.62	15163.614	0.0	29535.477	0.0
695.8100	57.01	-2.19	10001.532	0.0	24373.271	0.0
695.8128	10.01	-2.78	303824.230	3.5	318191.950	3.5
695.8132	10.01	-4.42	303824.230	3.5	318191.940	2.5
695.8239	28.01	.18	122140.710	4.5	136508.200	5.5
695.8268	29.01	-2.08	137034.970	3.0	151402.400	3.0
695.8346	10.01	-2.85	303824.680	2.5	318191.950	3.5
695.8350	10.01	-3.10	303824.680	2.5	318191.940	2.5
695.8544	28.01	-.49	122175.420	2.5	136542.280	3.5
695.8583	24.00	-4.39	31352.420	1.0	45719.200	1.0
695.8869	17.00	-2.93	84988.480	1.5	99354.670	1.5
695.9154	22.01	-2.98	52631.070	3.5	66996.670	3.5
695.9240	64.01	-.95	18228.600	0.0	32597.985	0.0
695.9256	28.01	-3.91	52205.950	3.5	66571.340	2.5
695.9512	9.02	-2.81	466978.150	1.5	481343.010	.5
695.9765	24.01	-2.63	69954.200	2.5	84318.540	1.5
695.9881	26.01	-3.54	49101.090	.5	63465.190	1.5
695.9934	24.00	-4.52	31355.210	2.0	45719.200	1.0
695.9961	14.00	-2.52	49933.775	3.0	64297.710	4.0
696.0026	13.01	-4.96	132213.200	1.0	146577.000	0.0
696.0026	13.01	-4.57	132213.200	1.0	146577.000	1.0
696.0026	13.01	-4.26	132213.200	1.0	146577.000	2.0
696.0070	16.01	-4.93	113461.220	1.5	127824.930	.5
696.0125	14.00	-3.34	49933.775	3.0	64297.370	3.0
696.0157	25.02	-2.70	218115.150	3.5	232478.680	4.5
696.0157	24.00	-2.54	48310.390	5.0	62673.920	6.0
696.0246	18.00	-3.40	106237.597	2.0	120600.944	2.0
696.0307	24.01	-4.39	74273.480	1.5	88636.700	1.5
696.0327	26.00	-2.55	37046.000	4.0	51409.180	4.0
696.0482	7.00	-2.05	95493.660	1.5	109856.520	1.5
696.0640	42.00	-1.08	26213.694	0.0	40580.189	0.0
696.0966	25.00	-.78	48270.910	2.5	62632.770	3.5
696.1063	26.00	-4.09	40052.080	2.0	54413.740	3.0
696.1243	28.01	-.34	119913.330	4.5	134274.620	5.5
696.1369	26.01	-4.85	72238.630	2.5	86599.660	2.5
696.1474	26.00	-3.58	41018.029	2.0	55378.842	2.0
696.1480	42.00	-1.28	25568.434	0.0	39933.196	0.0
696.1572	24.00	-3.51	48310.390	5.0	62671.000	4.0
696.1849	10.01	-2.48	303824.230	3.5	318184.270	4.5
696.1854	10.01	-2.30	303824.230	3.5	318184.260	3.5
696.1976	22.00	-2.27	28788.372	4.0	43148.150	3.0
696.1980	20.02	-.39	359520.600	2.0	373880.370	3.0
696.1999	28.01	-3.38	115120.000	2.5	129479.730	1.5
696.2072	10.01	-.85	303824.680	2.5	318184.260	3.5
696.2110	30.02	-3.46	285723.500	3.0	300083.000	3.0
696.2130	10.01	-.73	303824.230	3.5	318183.690	4.5
696.2204	22.00	-3.19	27355.042	1.0	41714.350	2.0
696.2256	23.00	-2.71	17181.980	4.5	31541.180	3.5
696.2319	6.00	-1.75	69744.030	3.0	84103.100	2.0
696.2712	28.01	-.41	119913.330	4.5	134271.590	4.5
696.2795	26.00	-3.54	41018.029	2.0	55376.117	1.0
696.2809	28.01	-4.25	121180.550	5.5	135538.610	5.5
696.2862	29.01	-1.32	137044.450	4.0	151402.400	3.0
696.3021	26.00	-2.96	33765.291	2.0	48122.913	3.0
696.3041	27.00	-4.09	32733.070	3.5	47090.650	2.5
696.3075	22.01	-3.20	52458.980	1.5	66816.490	1.5
696.3192	28.01	-4.42	115827.120	3.5	130184.390	2.5
696.3206	28.01	-3.71	115870.280	2.5	130227.520	2.5
696.3354	22.00	-2.14	27750.124	5.0	42107.060	4.0
696.3730	22.00	-3.02	17369.590	1.0	31725.750	1.0
696.3885	28.01	-1.34	122175.420	2.5	136531.260	1.5
696.3968	25.02	-4.70	178386.000	.5	192741.670	.5
696.4007	28.01	-3.51	115870.280	2.5	130225.870	3.5
696.4120	74.00	-2.80	13227.833	0.0	27587.149	0.0
696.4167	19.00	-3.39	13042.880	1.5	27398.140	1.5
696.4191	24.00	-4.68	21856.940	3.0	36212.150	4.0
696.4196	29.01	-2.25	121981.680	2.0	136336.880	1.0
696.4330	64.00	-1.19	10243.505	0.0	24602.388	0.0
696.4487	30.02	-4.81	285753.500	2.0	300108.100	3.0
696.4647	28.01	-3.65	115120.000	2.5	129474.270	3.5
696.4671	19.00	-2.44	13042.880	1.5	27397.100	2.5
696.4807	26.00	-2.68	44166.240	3.0	58520.180	4.0
696.4963	18.01	-4.48	196305.040	3.5	210658.660	2.5
696.4987	23.02	-.84	146223.050	3.5	160576.620	3.5
696.5410	12.00	-2.92	46403.065	2.0	60755.764	2.0
696.5410	12.00	-3.62	46403.065	2.0	60755.764	3.0
696.5410	12.00	-1.51	46403.065	2.0	60755.764	3.0
696.5427	18.00	-.77	93143.800	2.0	107496.463	1.0
696.5458	30.02	-4.93	285723.500	3.0	300076.100	2.0
696.5501	28.01	-2.67	98969.440	5.5	113321.950	4.5
696.5550	23.00	-8.11	2220.130	2.5	16572.540	3.5
696.5670	45.00	-1.41	12663.231	0.0	27019.352	0.0
696.5724	24.00	-4.09	27223.050	2.0	41575.100	3.0
696.5817	27.00	-2.60	31871.150	3.5	46223.010	4.5
696.6130	73.00	-1.47	12179.286	0.0	26534.459	0.0
696.6152	23.01	-2.80	34228.790	3.0	48579.960	3.0
696.6181	27.00	-4.71	33173.360	3.5	47524.470	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
696.6346	9.00	-1.18	104731.050	1.5	119081.820	.5
696.6370	14.00	-2.07	49399.670	1.0	63750.390	1.0
696.6440	40.00	-1.03	12663.231	0.0	27017.765	0.0
696.6511	28.01	.08	121294.670	4.5	135645.100	5.5
696.6656	28.01	-4.30	115785.060	1.5	130135.190	1.5
696.6734	26.01	-3.96	58666.360	3.5	73016.330	3.5
696.6811	7.01	-1.07	188909.170	1.0	203258.980	2.0
696.6834	17.00	-2.51	83130.900	1.5	97480.664	1.5
696.6899	24.00	-4.21	31009.000	3.0	45358.630	4.0
696.7030	26.01	-2.73	50076.100	1.5	64425.460	2.5
696.7220	28.01	-.56	119889.470	5.5	134238.440	6.5
696.7331	28.01	-.76	119913.330	4.5	134262.070	3.5
696.7433	26.02	-3.44	184951.620	3.0	199300.150	2.0
696.7653	22.00	-.64	31373.801	3.0	45721.878	4.0
696.7739	28.01	-4.98	123434.600	4.5	137782.500	4.5
696.8069	25.00	.35	42143.570	1.5	56490.790	2.5
696.8094	25.00	-2.42	45013.550	2.5	59360.720	2.5
696.8120	22.00	-.68	29907.273	2.0	44254.390	3.0
696.8186	28.01	-4.97	107737.810	1.5	122084.790	1.5
696.8340	29.00	-1.84	56621.579	0.0	70972.199	0.0
696.8502	28.01	-2.35	119909.720	1.5	134256.050	2.5
696.8618	28.01	-4.16	101246.160	.5	115592.250	1.5
696.8650	62.01	-2.07	9356.272	0.0	23706.254	0.0
696.8672	25.02	-4.58	179152.090	3.5	193498.070	3.5
696.8681	28.01	-3.92	121115.590	1.5	135461.550	2.5
696.8730	28.01	-1.59	121294.670	4.5	135640.530	4.5
696.8876	26.02	-3.06	199701.820	3.0	214047.380	4.0
696.8929	29.01	-.31	137073.750	2.0	151419.200	3.0
696.9143	22.01	-2.95	52471.480	2.5	66816.490	1.5
696.9146	26.00	-4.79	37409.530	1.0	51754.534	1.0
696.9162	28.01	-.54	119909.720	1.5	134254.690	1.5
696.9206	28.01	-3.25	101247.370	2.5	115592.250	1.5
696.9818	23.02	-1.70	145978.270	2.5	160321.890	2.5
697.0013	23.00	-1.67	17054.870	2.5	31398.090	2.5
697.0019	22.00	-1.51	27025.652	4.0	41368.860	4.0
697.0047	18.01	-3.18	196315.510	2.5	210658.660	2.5
697.0050	22.00	-4.92	27480.047	3.0	41823.190	3.0
697.0096	22.00	-2.20	31489.451	4.0	45832.500	5.0
697.0101	18.01	-4.50	196315.510	2.5	210658.550	1.5
697.0280	6.00	-3.50	69689.480	1.0	84032.150	1.0
697.0309	23.00	-4.19	24898.730	2.5	39241.340	2.5
697.0484	26.00	-3.78	24335.764	2.0	38678.015	2.0
697.0543	22.00	-1.20	29912.262	3.0	44254.390	3.0
697.0567	25.00	-3.35	30354.210	3.5	44696.290	2.5
697.0630	28.01	-4.37	123434.600	4.5	137776.550	3.5
697.0674	29.01	-3.72	114511.440	1.0	128853.300	2.0
697.0946	15.00	-2.05	64239.500	.5	78580.800	1.5
697.1131	17.00	-1.80	82918.893	2.5	97259.611	1.5
697.1417	29.01	-3.36	137034.970	3.0	151375.300	2.0
697.1530	73.00	-1.34	23793.968	0.0	38138.022	0.0
697.1530	75.00	-1.73	14518.354	0.0	28862.408	0.0
697.1578	28.01	-2.09	119909.720	1.5	134249.720	1.5
697.1588	25.00	-.94	45130.160	4.5	59470.140	3.5
697.1660	64.01	-.97	18067.285	0.0	32411.071	0.0
697.1722	9.00	-2.19	118405.267	.5	132744.970	1.5
697.1738	22.00	-3.81	29914.720	3.0	44254.390	3.0
697.1811	28.01	-1.38	119913.330	4.5	134252.850	3.5
697.1843	22.00	-3.43	27418.015	2.0	41757.470	3.0
697.1894	28.01	-3.39	121240.900	3.5	135580.250	4.5
697.1908	25.01	-4.56	67811.750	3.0	82151.070	2.0
697.1943	26.00	-3.20	24338.766	3.0	38678.015	2.0
697.2118	28.01	-4.75	121862.570	3.5	136201.460	3.5
697.2233	22.00	-3.91	27480.047	3.0	41818.700	4.0
697.2254	28.01	-4.41	115870.280	2.5	130208.890	3.5
697.2260	28.00	-4.51	40361.254	3.0	54699.852	3.0
697.2375	23.00	-4.37	19189.280	1.5	33527.640	2.5
697.2490	41.00	-1.70	14115.066	0.0	28457.145	0.0
697.2618	27.00	-3.05	40827.770	1.5	55165.630	2.5
697.2653	17.00	-1.70	88188.550	1.5	102526.340	2.5
697.2804	22.00	-2.69	31373.801	3.0	45711.280	4.0
697.2896	20.02	-3.98	359543.080	4.0	373880.370	3.0
697.2910	45.00	-.01	31295.118	0.0	45636.333	0.0
697.2925	18.01	-2.39	190592.170	1.5	204929.400	.5
697.3057	22.00	-4.00	32857.721	3.0	47194.680	4.0
697.3060	7.00	-2.35	95475.280	.5	109812.233	.5
697.3114	23.00	-2.32	19023.470	4.5	33360.310	3.5
697.3269	55.00	-.48	11732.308	0.0	26072.784	0.0
697.3501	28.00	-1.84	42767.900	3.0	57103.946	3.0
697.3523	29.01	-3.31	139119.500	3.0	153455.500	4.0
697.3557	7.01	-1.28	206910.240	0.0	221246.170	1.0
697.3558	22.00	-2.40	28896.062	5.0	43231.990	4.0
697.3586	28.01	-3.87	120044.950	4.5	134380.820	3.5
697.3956	23.00	-4.77	23088.060	1.5	37423.170	1.5
697.4009	13.01	-1.42	133914.100	2.0	148249.100	3.0
697.4141	28.01	-1.62	121294.670	4.5	135629.400	3.5
697.4228	23.01	-4.70	32420.040	0.0	46754.590	1.0
697.4379	28.01	-1.80	101258.010	1.5	115592.250	1.5
697.4457	28.01	-2.87	105668.780	2.5	120002.860	3.5
697.4511	23.00	-1.57	19026.340	2.5	33360.310	3.5
697.4623	28.01	-.34	121294.670	4.5	135628.410	4.5
697.4764	22.01	-4.16	16625.250	1.5	30958.700	2.5
697.5046	9.02	-4.31	441315.800	.5	455648.670	1.5
697.5153	24.00	-4.60	46448.600	1.0	60781.250	2.0
697.5581	22.00	-.41	31628.668	5.0	45960.439	6.0
697.5635	7.01	-.73	188857.370	2.0	203189.030	1.0
697.5713	24.01	-3.68	70394.460	4.5	84725.960	3.5
697.5820	23.00	-3.22	23608.800	1.5	37940.080	.5
697.5910	40.00	-1.95	11534.025	0.0	25869.072	0.0
697.6232	26.00	-2.27	37409.530	1.0	51739.964	2.0
697.6268	23.02	-.81	146549.620	4.5	160879.980	4.5
697.6419	29.01	-.70	137073.750	2.0	151403.800	2.0
697.6513	14.00	-1.42	48020.074	1.0	62349.930	2.0
697.6589	30.02	-4.25	285723.500	3.0	300053.200	2.0
697.6686	30.02	-4.04	285753.500	2.0	300083.000	3.0
697.6925	26.00	-2.06	36975.640	3.0	51304.650	4.0
697.6969	27.00	-4.42	15774.040	1.5	30102.960	2.5
697.6970	17.00	-1.98	85917.937	.5	100246.855	1.5
697.7027	14.00	-2.44	50054.800	4.0	64383.600	4.0
697.7100	29.01	-.97	137073.750	2.0	151402.400	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
697.7237	24.01	-4.69	53051.550	1.5	67379.920	1.5
697.7246	27.00	-4.21	40621.620	1.5	54949.970	1.5
697.7383	26.02	-3.23	137209.730	4.0	151537.800	4.0
697.7426	29.01	-.97	122745.770	2.0	137073.750	2.0
697.7451	28.01	-1.24	121294.670	4.5	135622.600	3.5
697.7468	26.00	-2.00	37046.000	4.0	51373.894	5.0
697.7490	29.01	-1.70	137044.450	4.0	151372.300	5.0
697.7928	28.01	-4.51	115870.280	2.5	130197.230	1.5
697.8162	24.00	-4.19	35884.400	5.0	50210.870	4.0
697.8303	23.00	-4.73	24915.160	1.5	39241.340	2.5
697.8313	27.00	-2.97	28470.510	1.5	42796.670	1.5
697.8488	24.00	-1.80	27935.260	4.0	42261.060	5.0
697.8649	27.00	-2.32	36875.130	1.5	51200.600	1.5
697.8710	42.01	-.86	26455.667	0.0	40784.963	0.0
697.8742	27.00	-4.21	40621.620	1.5	54946.900	2.5
697.8839	18.01	-4.99	196305.040	3.5	210630.120	3.5
697.8856	26.00	-2.70	20037.815	0.0	34362.860	1.0
697.8873	18.01	-4.35	196305.040	3.5	210630.050	2.5
697.9073	26.02	-3.67	185003.350	2.0	199327.950	1.0
697.9146	25.01	-4.82	67811.750	3.0	82136.200	4.0
697.9150	45.00	.25	30972.488	0.0	45300.880	0.0
697.9151	28.01	-2.01	105588.890	4.5	119913.330	4.5
697.9166	26.00	-3.94	22838.320	2.0	37162.729	3.0
697.9170	26.02	-4.24	137209.730	4.0	151534.130	3.0
697.9170	7.00	-1.52	95532.120	2.5	109856.520	1.5
697.9214	26.02	-2.63	186882.980	3.0	201207.290	4.0
697.9260	22.00	-3.39	27498.975	3.0	41823.190	3.0
697.9285	28.00	-2.29	44206.185	3.0	58530.350	3.0
697.9541	26.00	-4.62	40052.080	2.0	54375.719	2.0
697.9580	23.01	-5.99	20622.990	3.0	34946.550	4.0
697.9590	72.00	-1.71	15566.901	0.0	29894.390	0.0
697.9621	17.00	-1.19	85442.430	1.5	99765.906	2.5
697.9799	24.00	-2.31	27935.260	4.0	42258.370	4.0
697.9838	15.00	-1.24	65373.470	.5	79696.500	1.5
697.9880	39.00	-1.26	14840.984	0.0	29167.878	0.0
698.0028	28.01	-.36	121317.890	3.5	135640.530	4.5
698.0047	30.02	-4.29	285753.500	2.0	300076.100	2.0
698.0267	23.02	-.71	145822.110	1.5	160144.260	1.5
698.0370	42.00	-1.03	27584.872	0.0	41910.760	0.0
698.0375	22.00	-3.79	20006.032	2.0	34327.960	1.0
698.0408	14.00	-1.15	49399.670	1.0	63721.530	2.0
698.0457	24.00	-4.95	27703.840	4.0	42025.600	3.0
698.0589	6.00	-2.32	69710.660	2.0	84032.150	1.0
698.0666	24.00	-3.15	35501.260	3.0	49822.590	2.0
698.0827	24.00	-3.05	27935.260	4.0	42256.260	3.0
698.0860	64.00	.31	20325.695	0.0	34650.578	0.0
698.0909	22.00	.03	30060.328	4.0	44381.160	4.0
698.0910	72.01	-1.91	15002.299	0.0	29327.079	0.0
698.0959	22.01	-3.89	16515.790	.5	30836.520	1.5
698.1227	28.01	-4.06	123434.600	4.5	137754.780	5.5
698.1315	16.01	-.71	114279.110	3.5	128599.110	3.5
698.1449	22.00	-4.65	27498.975	3.0	41818.700	4.0
698.1456	24.00	-4.96	33906.650	1.0	48226.360	0.0
698.1563	23.02	-1.58	146846.320	1.5	161165.810	2.5
698.1656	26.00	-2.42	37046.000	4.0	51365.300	3.0
698.1671	28.01	-3.76	123434.600	4.5	137753.870	4.5
698.1680	24.00	-3.00	35934.020	6.0	50253.270	5.0
698.1880	18.01	-1.24	190196.160	.5	204515.000	.5
698.1885	17.00	-1.04	82918.893	2.5	97237.723	2.5
698.1992	28.01	-2.68	101247.370	2.5	115565.980	2.5
698.2010	7.00	-1.65	95493.660	1.5	109812.233	.5
698.2010	44.00	.12	27342.899	0.0	41665.422	0.0
698.2027	24.01	-3.41	91103.360	4.5	105421.900	5.5
698.2285	21.00	.05	25584.640	2.5	39902.650	3.5
698.2368	24.01	-3.38	74318.860	2.5	88636.700	1.5
698.2706	9.00	-1.87	118427.823	1.5	132744.970	1.5
698.2738	16.01	-.71	115817.000	2.5	130134.080	2.5
698.2743	24.00	-2.88	34190.490	2.0	48507.560	1.0
698.2763	24.00	-3.69	33934.880	3.0	48251.910	3.0
698.2885	23.02	-1.26	147606.500	3.5	161923.280	2.5
698.3114	22.00	-1.77	17369.590	1.0	31665.900	0.0
698.3139	24.00	-4.03	33935.650	2.0	48251.910	3.0
698.3439	17.00	-3.18	85735.091	1.5	100050.736	1.5
698.3484	55.00	-1.42	11732.308	0.0	26051.808	0.0
698.3520	73.00	-1.07	22664.763	0.0	36984.189	0.0
698.3530	64.00	-1.27	11775.996	0.0	26095.404	0.0
698.3885	14.00	-1.59	49399.670	1.0	63714.400	2.0
698.3944	18.01	-3.53	196315.510	2.5	210630.120	3.5
698.3963	28.00	-3.87	44314.980	4.0	58629.550	3.0
698.4004	26.00	-2.62	43499.485	4.0	57813.970	3.0
698.4187	28.01	-3.96	115870.280	2.5	130184.390	2.5
698.4261	24.00	-4.44	31393.400	5.0	45707.360	6.0
698.4300	74.00	-2.56	13227.833	0.0	27545.660	0.0
698.4412	25.02	-3.66	121197.050	2.5	135510.700	2.5
698.4597	25.01	-4.17	52373.180	3.0	66686.450	3.0
698.4670	42.00	-1.11	27584.872	0.0	41901.941	0.0
698.4677	28.00	-1.73	43654.974	3.0	57968.080	3.0
698.4722	26.00	-4.23	44511.795	2.0	58824.810	2.0
698.4856	28.01	-2.32	121317.890	3.5	135630.630	2.5
698.4950	76.00	-2.22	16131.504	0.0	30447.999	0.0
698.4958	22.00	-3.76	27740.190	2.0	42054.720	3.0
698.5254	28.00	-2.55	44206.185	3.0	58518.110	4.0
698.5422	15.00	-1.38	65450.020	1.5	79761.600	2.5
698.5447	28.01	-3.11	121294.670	4.5	135606.200	5.5
698.5456	28.01	-1.51	121317.890	3.5	135629.400	3.5
698.5525	14.00	-2.34	47284.061	1.0	61595.430	1.0
698.5608	24.00	-1.56	35501.260	3.0	49812.460	3.0
698.5617	24.00	-3.86	33906.650	1.0	48217.830	2.0
698.5691	25.00	-1.73	48168.010	4.5	62479.040	4.5
698.5705	18.01	-1.39	190106.230	1.5	204417.230	1.5
698.5793	26.02	-2.65	184951.620	3.0	199262.440	3.0
698.5940	24.00	-4.98	24286.540	1.0	38597.060	1.0
698.5940	28.01	-.29	121317.890	3.5	135628.410	4.5
698.5969	15.00	-2.54	66813.040	1.5	81123.500	2.5
698.6090	41.00	-1.44	14760.326	0.0	29074.485	0.0
698.6139	10.01	-3.61	303518.210	1.5	317828.320	.5
698.6355	29.01	-1.46	123304.630	1.0	137614.300	0.0
698.6394	28.01	-4.66	94729.250	2.5	109038.840	1.5
698.6457	24.01	-3.86	53566.220	3.5	67875.680	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
698.6779	30.02	-2.61	221143.700	3.0	235452.500	2.0
698.6828	25.00	-3.20	51638.170	2.5	65946.870	2.5
698.6872	28.01	-4.98	116261.810	.5	130570.420	.5
698.6950	22.01	-3.12	52458.980	1.5	66767.430	.5
698.6999	28.01	-3.67	123434.600	4.5	137742.950	5.5
698.7185	28.01	-3.28	101258.010	1.5	115565.980	2.5
698.7429	28.00	-.58	44565.100	3.0	58872.570	4.0
698.7507	23.00	-2.77	23935.150	2.5	38242.460	3.5
698.7659	17.01	-.27	132162.000	3.0	146469.000	3.0
698.7839	22.01	-2.73	52631.070	3.5	66937.700	2.5
698.8093	28.01	-2.06	105838.060	3.5	120144.170	2.5
698.8176	29.01	-4.22	116080.460	3.0	130386.400	2.0
698.8318	14.02	-.52	240549.770	2.0	254855.420	3.0
698.8531	26.00	-3.46	19390.165	6.0	33695.378	5.0
698.8709	24.00	-3.74	31049.330	6.0	45354.180	5.0
698.8750	64.01	-1.09	18551.230	0.0	32859.940	0.0
698.8777	28.01	-.46	121317.890	3.5	135622.600	3.5
698.8940	42.00	-1.44	20003.065	0.0	34311.386	0.0
698.8967	18.01	-3.06	196305.040	3.5	210609.360	3.5
698.9011	18.01	-3.50	196305.040	3.5	210609.270	4.5
698.9104	25.01	-3.22	93868.500	1.0	108172.540	1.0
698.9192	23.00	-7.79	2424.890	4.5	16728.750	4.5
698.9246	28.01	-4.10	115870.280	2.5	130174.030	1.5
698.9368	28.00	-3.92	43464.019	1.0	57767.520	1.0
698.9422	24.00	-3.84	33906.650	1.0	48210.040	1.0
698.9476	24.00	-3.87	31055.350	5.0	45358.630	4.0
698.9500	23.00	-3.37	20789.130	2.5	35092.360	1.5
698.9867	25.00	.40	42053.730	2.5	56356.210	3.5
698.9914	22.00	-3.09	27614.667	4.0	41917.050	4.0
699.0003	25.00	-2.31	48270.910	2.5	62573.110	1.5
699.0033	27.00	-3.88	41104.960	2.5	55407.100	1.5
699.0101	17.01	-3.27	147605.700	3.0	161907.700	2.0
699.0116	18.01	-2.33	143371.350	1.5	157673.320	2.5
699.0126	25.01	-2.84	93868.500	1.0	108170.450	2.0
699.0152	22.00	-1.49	17423.853	2.0	31725.750	1.0
699.0184	24.01	-2.91	53566.220	3.5	67868.050	2.5
699.0320	41.00	-1.68	8630.355	0.0	22935.852	0.0
699.0321	29.01	-1.26	137073.750	2.0	151375.300	2.0
699.0349	22.00	-1.58	26892.926	3.0	41194.420	3.0
699.0439	10.00	-4.35	158795.992	1.0	173097.300	0.0
699.0663	29.01	-2.30	136442.050	3.0	150742.900	3.0
699.0722	24.00	-3.27	31048.000	7.0	45348.730	6.0
699.0795	28.01	-1.83	105588.890	4.5	119889.470	5.5
699.0840	40.00	-1.58	5000.766	0.0	19305.199	0.0
699.0923	18.01	-3.64	190942.650	.5	205242.970	.5
699.0986	28.01	-1.21	121317.890	3.5	135618.080	2.5
699.1123	25.00	-3.05	45060.810	3.5	59360.720	2.5
699.1226	30.02	-3.97	285753.500	2.0	300053.200	2.0
699.1239	22.00	-1.48	25227.217	3.0	39526.890	2.0
699.1372	24.00	-4.10	31049.330	6.0	45348.730	6.0
699.1579	26.00	-3.66	37162.729	3.0	51461.707	4.0
699.1651	24.00	-4.55	31055.350	5.0	45354.180	5.0
699.1690	42.00	-1.15	26052.379	0.0	40355.073	0.0
699.1695	24.01	-4.21	70427.220	3.5	84725.960	3.5
699.1904	14.00	-2.90	49188.617	2.0	63486.930	1.0
699.1920	64.00	-1.92	0.000	0.0	14302.223	0.0
699.1964	23.00	-4.15	9636.960	1.5	23935.150	2.5
699.2206	18.00	-2.92	107496.463	1.0	121794.158	0.0
699.2223	28.01	-3.53	115000.250	3.5	129297.910	3.5
699.2233	24.00	-2.26	35807.900	2.0	50105.540	1.0
699.2458	25.01	-4.55	52379.380	2.0	66676.560	2.0
699.2521	23.00	-4.79	24830.180	1.5	39127.230	1.5
699.2585	22.00	-2.89	27887.740	3.0	42184.660	4.0
699.2644	26.02	-2.86	185003.350	2.0	199300.150	2.0
699.2717	23.00	-8.53	2153.200	1.5	16449.850	2.5
699.2728	16.00	-1.71	64888.014	1.0	79184.640	1.0
699.2871	22.00	-3.76	27418.015	2.0	41714.350	2.0
699.2878	14.00	-2.58	47351.554	2.0	61647.875	2.0
699.3040	90.01	-2.39	6936.547	0.0	21236.480	0.0
699.3180	64.00	-1.00	10243.505	0.0	24543.151	0.0
699.3211	14.00	-1.79	49060.601	1.0	63356.240	2.0
699.3230	17.01	-.92	132173.400	4.0	146469.000	3.0
699.3260	74.00	-2.01	19680.435	0.0	33979.918	0.0
699.3269	26.00	-4.45	37409.530	1.0	51705.052	2.0
699.3402	28.01	-4.27	116838.330	1.5	131133.580	2.5
699.3508	26.00	-4.08	44415.057	4.0	58710.090	3.0
699.3646	14.02	-.58	240262.280	1.0	254557.030	2.0
699.3681	28.01	-1.99	92325.850	3.5	106620.530	3.5
699.3914	16.00	-2.19	64890.436	0.0	79184.640	1.0
699.4080	74.00	-2.25	19680.435	0.0	33978.241	0.0
699.4087	18.01	-4.40	196315.510	2.5	210609.360	3.5
699.4283	28.00	-3.80	44336.100	4.0	58629.550	3.0
699.4312	28.01	-4.97	115209.850	3.5	129503.240	4.5
699.4317	24.00	-4.64	31055.350	5.0	45348.730	6.0
699.4320	40.00	-1.79	5484.711	0.0	19782.027	0.0
699.4499	16.00	-1.49	64891.632	2.0	79184.640	1.0
699.4532	22.00	-4.98	27665.570	1.0	41958.510	2.0
699.4566	24.01	-3.50	53051.550	1.5	67344.420	2.5
699.4708	23.00	-4.10	23210.560	2.5	37503.140	2.5
699.4929	28.01	-.82	120002.860	3.5	134294.990	2.5
699.5220	73.00	-1.86	10566.135	0.0	24861.611	0.0
699.5908	28.01	-4.55	92792.080	3.5	107082.210	2.5
699.5928	17.00	-2.81	85244.330	.5	99534.419	.5
699.6110	41.00	-1.77	13550.463	0.0	27844.120	0.0
699.6363	29.01	-1.17	122745.770	2.0	137034.970	3.0
699.6402	25.02	-3.75	217975.300	2.5	232264.420	3.5
699.6460	15.00	-4.22	66834.500	1.5	81123.500	2.5
699.6552	22.00	-4.15	27614.667	4.0	41903.480	5.0
699.6657	25.00	-4.30	48225.990	3.5	62514.590	2.5
699.6666	15.00	-2.16	67113.820	2.5	81402.400	2.5
699.6695	22.00	-1.22	18825.890	1.0	33114.412	2.0
699.6760	64.01	-.41	17825.312	0.0	32117.642	0.0
699.6799	24.00	-4.35	35813.730	3.0	50102.040	3.0
699.6985	27.00	-4.78	41101.800	.5	55389.730	1.5
699.7102	26.00	-3.19	39969.830	3.0	54257.520	2.0
699.7186	27.00	-.59	39649.160	3.5	53936.680	2.5
699.7284	23.00	-4.58	25111.500	4.5	39398.820	3.5
699.7347	23.01	-3.10	32299.240	1.0	46586.430	0.0
699.7367	9.02	-1.94	426989.570	3.5	441276.720	2.5
699.7432	22.00	-3.57	11639.804	3.0	25926.820	4.0
699.7479	23.00	-4.46	23088.060	1.5	37374.980	.5
699.7708	9.00	-2.07	118936.797	1.5	133223.250	.5
699.8136	28.01	-3.49	121294.670	4.5	135580.250	4.5
699.8361	28.01	-4.73	121227.800	2.5	135512.920	2.5
699.8361	14.03	-.80	313914.920	2.5	328200.040	2.5
699.8361	14.03	.50	313914.920	2.5	328200.040	3.5
699.8361	14.03	.35	313914.920	1.5	328200.040	2.5
699.8616	26.02	-3.75	105895.350	1.0	120179.950	0.0
699.8787	28.01	-3.46	115000.250	3.5	129284.500	2.5
699.8962	22.00	-3.81	26803.417	2.0	41087.310	3.0
699.8993	22.01	-1.44	25193.040	2.5	39476.870	2.5
699.9130	42.00	-1.02	26294.352	0.0	40581.842	0.0
699.9145	28.01	-.16	120002.860	3.5	134266.380	4.5
699.9160	23.00	-2.84	19023.470	4.5	33306.960	4.5
699.9219	26.02	-3.18	186882.980	3.0	201166.350	3.0
699.9219	27.00	-4.05	40621.620	1.5	54904.990	2.5
699.9410	28.01	-.67	105861.190	2.5	120144.170	2.5
699.9424	24.00	-4.05	33934.880	3.0	48217.830	2.0
699.9476	26.00	-3.20	40842.130	3.0	55124.974	3.0
699.9547	29.01	-2.55	134359.900	1.0	148642.600	2.0
699.9630	26.01	-4.60	50142.930	2.5	64425.460	2.5
699.9802	24.00	-3.74	33935.650	2.0	48217.830	2.0
699.9812	23.00	-3.83	19078.150	3.5	33360.310	3.5
699.9880	42.00	-1.28	25568.434	0.0	39854.393	0.0
699.9896	26.00	-1.57	33095.922	4.0	47377.909	4.0
700.0169	24.01	-3.75	59130.510	1.5	73411.940	1.5
700.0267	26.02	-1.80	186882.980	3.0	201164.210	2.0
700.0297	23.00	-2.70	17116.920	3.5	31398.090	2.5
700.0556	17.00	-1.20	84988.480	1.5	99269.121	2.5
700.0585	26.00	-1.65	33412.706	3.0	47693.289	3.0
700.0723	30.02	-2.32	221343.600	2.0	235623.900	3.0
700.0750	64.01	-.96	17744.654	0.0	32028.838	0.0
700.0939	7.01	-2.95	188909.170	1.0	203189.030	1.0
700.1179	23.00	-2.97	20812.990	1.5	35092.360	1.5
700.1263	25.00	-3.45	48021.430	5.5	62300.630	4.5
700.1449	18.01	-1.57	190942.650	.5	205221.470	1.5
700.1473	22.01	-5.67	15265.600	3.5	29544.370	2.5
700.1488	25.00	-3.59	45060.810	3.5	59339.550	3.5
700.1503	25.01	-4.56	67865.630	4.0	82144.340	3.0
700.1557	15.00	-1.33	65585.000	2.5	79863.600	3.5
700.1580	45.00	-1.60	16050.847	0.0	30333.338	0.0
700.1600	42.00	-1.68	19841.750	0.0	34124.200	0.0
700.1606	28.01	-1.54	122270.050	3.5	136548.550	2.5
700.2131	28.01	-4.18	116786.420	.5	131063.850	.5
700.2134	22.00	-4.12	27480.047	3.0	41757.470	3.0
700.2302	28.01	-.73	122270.050	3.5	136547.130	3.5
700.2498	25.00	-2.40	30419.610	2.5	44696.290	2.5
700.2498	25.00	-4.08	45013.550	2.5	59290.230	3.5
700.2518	26.00	-2.81	40534.180	3.0	54810.820	4.0
700.2581	26.00	-4.36	44243.668	5.0	58520.180	4.0
700.2611	28.01	.00	122270.050	3.5	136546.500	4.5
700.2660	28.01	-4.32	115565.980	2.5	129842.330	2.5
700.2749	24.01	-4.19	59130.510	1.5	73406.680	.5
700.2802	22.00	-1.45	31628.668	5.0	45904.730	6.0
700.3570	14.00	-.97	48102.323	2.0	62376.820	3.0
700.3615	26.00	-4.21	33946.920	2.0	48221.323	1.0
700.3848	25.00	-2.28	48021.430	5.5	62295.360	5.5
700.4066	26.00	-4.27	44551.325	3.0	58824.810	2.0
700.4132	24.00	-4.39	46783.060	4.0	61056.410	4.0
700.4212	28.00	-2.21	44314.980	4.0	58588.168	3.0
700.4313	14.02	-.41	240284.280	2.0	254557.260	3.0
700.4426	14.02	-1.31	240284.280	2.0	254557.030	2.0
700.4471	28.01	-3.88	123434.600	4.5	137707.260	3.5
700.4482	28.00	-1.67	42585.296	4.0	56857.933	4.0
700.4613	15.01	-1.34	88894.000	1.0	103166.370	1.0
700.4666	22.00	-1.32	18818.230	0.0	33090.492	1.0
700.4682	28.01	-.83	122270.050	3.5	136542.280	3.5
700.4731	25.00	-1.00	48300.980	1.5	62573.110	1.5
700.4746	22.01	-2.20	24961.340	1.5	39233.440	1.5
700.4770	27.00	-3.29	16470.600	1.5	30742.650	.5
700.5070	73.00	-2.90	5968.656	0.0	20244.031	0.0
700.5393	28.01	-2.24	119796.980	2.5	134067.760	1.5
700.5460	40.00	-1.91	11856.655	0.0	26131.235	0.0
700.5467	28.01	-4.29	121111.900	.5	135382.530	1.5
700.5492	25.00	-2.73	30425.710	1.5	44696.290	2.5
700.5585	23.01	-3.17	32420.040	0.0	46690.430	1.0
700.5776	10.03	-.41	633790.000	1.5	648060.000	1.5
700.5881	14.00	-.98	48264.292	3.0	62534.080	4.0
700.6067	10.00	-3.76	158795.992	1.0	173065.400	2.0
700.6160	64.01	-.47	18551.230	0.0	32824.384	0.0
700.6220	22.00	-4.07	27750.124	5.0	42019.220	6.0
700.6327	17.00	-2.42	85442.430	1.5	99711.309	.5
700.6400	28.01	-1.46	120002.860	3.5	134271.590	4.5
700.6630	75.00	-2.13	14518.354	0.0	28790.550	0.0
700.6658	22.00	-.56	29986.185	3.0	44254.390	3.0
700.6814	22.00	-3.37	27750.124	5.0	42018.010	5.0
700.6827	23.00	-4.27	25130.960	2.5	39398.820	3.5
700.6940	24.00	-4.18	46637.210	3.0	60904.840	3.0
700.6960	73.00	-2.12	9920.875	0.0	24192.399	0.0
700.7068	26.00	-2.51	39969.830	3.0	54237.200	4.0
700.7250	22.00	-1.99	31489.451	4.0	45756.450	5.0
700.7279	28.01	-4.81	121115.590	1.5	135382.530	1.5
700.7446	26.02	-3.47	185061.350	1.0	199327.950	1.0
700.7805	28.01	-4.05	100609.010	2.5	114874.880	2.5
700.7819	22.00	-3.71	11531.760	2.0	25797.600	3.0
700.7871	22.00	-1.61	17540.205	3.0	31805.940	2.0
700.7940	26.00	-1.70	33695.378	5.0	47960.973	4.0
700.8006	28.01	-4.64	121227.800	2.5	135493.260	1.5
700.8043	17.00	-1.71	82918.893	2.5	97184.277	3.5
700.8266	27.00	-4.55	18389.570	1.5	32654.500	2.5
700.8428	22.00	-1.51	18825.890	1.0	33090.492	1.0
700.8880	16.01	-1.26	115870.400	1.5	130134.080	2.5
700.8930	10.01	-3.87	303518.210	1.5	317781.790	1.5
700.8970	39.00	-1.00	19035.175	0.0	33302.607	0.0
700.8989	28.01	-4.97	121692.550	4.5	135956.010	5.5
700.9318	9.02	-4.27	441385.880	1.5	455648.670	1.5
700.9362	23.00	-4.18	36938.420	5.5	51201.120	6.5
700.9529	28.01	-3.20	121317.890	3.5	135580.250	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
700.9628	23.00	-3.13	20830.200	.5	35092.360	1.5
700.9765	23.00	-3.69	23353.090	3.5	37614.970	3.5
700.9785	24.01	-2.85	91103.360	4.5	105365.200	4.5
700.9930	39.00	-1.17	18873.860	0.0	33139.338	0.0
701.0114	23.00	-8.04	2311.370	3.5	16572.540	3.5
701.0149	26.02	-3.32	184951.620	3.0	199212.720	4.0
701.0330	26.00	-2.08	36940.600	2.0	51201.330	2.0
701.0803	26.00	-3.05	40231.312	2.0	54491.080	3.0
701.1038	25.01	-3.88	52363.720	4.0	66643.010	4.0
701.1052	22.00	-1.34	18825.890	1.0	33085.153	0.0
701.1137	26.02	-2.83	185003.350	2.0	199262.440	3.0
701.1353	26.00	-1.65	37046.000	4.0	51304.650	4.0
701.1429	22.00	-4.06	27498.975	3.0	41757.470	3.0
701.1442	25.00	-2.57	48168.010	4.5	62426.480	3.5
701.1574	17.01	-2.33	131754.800	1.0	146013.000	2.0
701.1633	28.01	-4.39	116312.340	1.5	130570.420	.5
701.2081	14.00	-2.59	50054.800	4.0	64311.970	4.0
701.2106	24.00	-4.93	31049.330	6.0	45306.450	5.0
701.2184	15.00	-3.43	66813.040	1.5	81070.000	1.5
701.2258	25.00	.29	41932.640	3.5	56189.450	4.5
701.2420	18.01	-3.38	172213.800	1.5	186470.280	1.5
701.2455	24.00	-4.35	46524.840	2.0	60781.250	2.0
701.2612	14.00	-.52	50054.800	4.0	64310.890	5.0
701.2612	14.00	-1.42	50054.800	4.0	64310.890	5.0
701.2622	28.01	-1.78	119796.980	2.5	134053.050	2.5
701.2804	27.00	-3.91	33945.900	2.5	48201.600	3.5
701.2824	25.00	-1.56	47774.520	3.5	62030.180	4.5
701.3050	30.02	-4.58	285753.500	2.0	300008.700	1.0
701.3153	25.00	-.22	48318.120	.5	62573.110	1.5
701.3309	55.00	-5.43	14499.257	0.0	28757.862	0.0
701.3458	28.01	-1.65	122270.050	3.5	136524.420	4.5
701.3646	14.00	-3.92	47284.061	1.0	61538.050	0.0
701.3729	17.00	-3.86	87979.490	3.5	102233.310	2.5
701.3931	17.00	-2.07	85735.091	1.5	99988.501	2.5
701.3980	7.01	-1.32	188909.170	1.0	203162.480	0.0
701.4034	28.01	-4.92	116512.060	3.5	130765.260	3.5
701.4039	28.01	-2.53	120002.860	3.5	134256.050	2.5
701.4108	25.00	-.33	48225.990	3.5	62479.040	4.5
701.4112	17.00	-1.43	85917.937	.5	100170.980	1.5
701.4307	22.00	-1.54	25388.334	4.0	39640.980	3.0
701.4526	24.00	-4.16	35398.020	4.0	49650.220	3.0
701.4536	28.01	-4.79	115956.710	2.5	130208.890	3.5
701.4591	28.00	-1.99	44336.100	4.0	58588.168	3.0
701.4728	7.01	-1.80	188937.240	0.0	203189.030	1.0
701.4995	26.00	-4.10	19788.248	4.0	34039.495	4.0
701.5338	24.00	-4.51	31364.330	3.0	45614.880	4.0
701.5614	28.01	-.27	120002.860	3.5	134252.850	3.5
701.5629	21.00	-4.76	30573.100	.5	44823.060	1.5
701.5720	92.00	-1.52	8065.752	0.0	22319.457	0.0
701.5747	23.01	-7.58	20343.000	2.0	34592.720	2.0
701.5781	24.00	-2.37	35572.940	2.0	49822.590	2.0
701.5888	26.00	-4.75	37521.144	2.0	51770.577	3.0
701.6037	23.00	-9.45	2112.320	.5	16361.450	1.5
701.6037	14.00	-3.68	50054.800	4.0	64303.930	3.0
701.6062	26.00	-3.92	19552.474	1.0	33801.555	2.0
701.6110	26.00	-3.87	44022.518	4.0	58271.500	5.0
701.6340	26.00	-3.08	39625.784	4.0	53874.300	5.0
701.6367	23.00	-4.49	24992.880	3.5	39241.340	2.5
701.6405	26.00	-1.22	33507.102	3.0	47755.485	3.0
701.6440	46.00	-.29	37909.034	0.0	52161.276	0.0
701.6440	42.00	-1.07	26294.352	0.0	40546.594	0.0
701.6485	26.00	-3.41	41130.620	1.0	55378.842	2.0
701.6495	22.00	-3.19	27740.190	2.0	41988.390	3.0
701.6510	13.02	-.94	195621.720	.5	209869.890	.5
701.6524	28.00	-4.97	40484.282	2.0	54732.425	2.0
701.6600	64.00	-1.61	7339.834	0.0	21591.751	0.0
701.6619	27.00	-1.94	16195.680	.5	30443.630	1.5
701.6788	14.00	-1.90	48102.323	2.0	62349.930	2.0
701.7047	28.01	-4.54	92373.450	2.5	106620.530	3.5
701.7288	14.00	-2.45	47351.554	2.0	61598.145	2.0
701.7328	24.00	-4.03	31009.000	3.0	45255.510	3.0
701.7343	15.00	-1.73	65450.020	1.5	79696.500	1.5
701.7653	14.00	-2.15	47351.554	2.0	61597.404	3.0
701.7730	64.01	-1.22	18147.942	0.0	32397.564	0.0
701.7806	28.01	-4.32	53634.620	1.5	67880.160	2.5
701.7827	26.00	-3.64	41130.620	1.0	55376.117	1.0
701.8072	17.01	-2.42	131768.000	2.0	146013.000	2.0
701.8510	28.01	-3.41	105588.890	4.5	119833.000	5.5
701.8594	28.01	-3.80	121294.670	4.5	135538.610	5.5
701.8623	24.00	-3.79	35813.730	3.0	50057.610	2.0
701.8722	25.00	-.92	48270.910	2.5	62514.590	2.5
701.8722	25.00	-3.66	51718.220	1.5	65961.900	1.5
701.9052	14.02	-.23	240314.630	3.0	254557.640	4.0
701.9101	14.00	-2.69	50054.800	4.0	64297.710	4.0
701.9111	17.00	-1.89	87979.490	3.5	102222.380	3.5
701.9239	14.02	-1.30	240314.630	3.0	254557.260	3.0
701.9250	72.00	-.40	29117.365	0.0	43363.901	0.0
701.9259	17.00	-.95	87979.490	3.5	102222.080	4.5
701.9269	26.02	-2.96	199804.810	4.0	214047.380	4.0
701.9269	14.00	-4.72	50054.800	4.0	64297.370	3.0
701.9353	14.02	-2.84	240314.630	3.0	254557.030	2.0
701.9501	27.00	-4.25	32464.730	4.5	46706.630	3.5
701.9831	28.01	-.64	120044.950	4.5	134286.380	4.5
701.9846	18.01	-2.41	173347.830	1.5	187589.230	2.5
702.0072	28.01	-3.52	105668.780	2.5	119909.720	1.5
702.0087	28.01	-3.97	121317.890	3.5	135558.800	4.5
702.0440	62.01	-1.33	9356.272	0.0	23600.393	0.0
702.0615	23.02	-.65	146139.800	2.5	160379.640	2.5
702.0773	24.00	-2.73	35572.940	2.0	49812.460	3.0
702.0804	17.00	-1.66	85442.430	1.5	99681.887	1.5
702.0920	24.00	-3.52	35862.820	4.0	50102.040	3.0
702.0935	17.00	-3.30	87979.490	3.5	102218.680	2.5
702.1128	26.02	-3.43	185061.350	1.0	199300.150	2.0
702.1266	28.01	-3.75	113753.040	4.5	127991.560	3.5
702.1295	23.00	-7.56	10892.500	3.5	25130.960	2.5
702.1409	23.00	-3.52	23519.840	4.5	37758.070	4.5
702.1438	25.00	-4.78	51638.170	2.5	65876.340	3.5
702.1540	59.01	-1.59	9275.615	0.0	23517.505	0.0
702.1986	28.01	-3.64	121227.800	2.5	135464.860	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
702.1990	17.00	-2.80	85735.091	1.5	99972.144	.5
702.2055	24.00	-4.53	31377.960	4.0	45614.880	4.0
702.2072	28.00	-1.16	42621.048	3.0	56857.933	4.0
702.2129	6.00	-1.02	69710.660	2.0	83947.430	3.0
702.2158	28.01	-.14	120044.950	4.5	134281.660	5.5
702.2188	28.01	-4.45	120144.170	2.5	134380.820	3.5
702.2364	26.00	-2.38	34692.130	1.0	48928.423	2.0
702.2382	28.00	-1.94	42585.296	4.0	56821.553	3.0
702.2410	26.02	-2.29	186268.790	2.0	200504.990	3.0
702.2612	22.00	-4.16	27665.570	1.0	41901.360	1.0
702.2666	28.01	-.93	107082.210	2.5	121317.890	3.5
702.2750	10.01	-4.88	292451.780	1.5	306687.290	2.5
702.2755	15.00	-3.95	66834.500	1.5	81070.000	1.5
702.2854	29.01	-2.07	121524.670	3.0	135759.970	2.0
702.2947	26.00	-1.10	33801.555	2.0	48036.667	2.0
702.3036	24.00	-4.90	46448.600	1.0	60683.530	1.0
702.3337	9.02	-1.86	452748.540	2.5	466982.860	2.5
702.3456	25.01	-3.98	67910.260	4.0	82144.340	3.0
702.3480	41.00	-1.61	14115.066	0.0	28353.022	0.0
702.3619	28.01	-3.91	121227.800	2.5	135461.550	2.5
702.3670	57.00	-.74	7985.094	0.0	22222.665	0.0
702.3678	28.00	-1.89	36600.805	2.0	50834.435	2.0
702.3742	24.00	-3.01	40971.290	2.0	55204.790	3.0
702.3944	22.00	-2.98	19937.859	1.0	34170.950	0.0
702.3994	21.00	.15	25724.720	3.5	39957.710	4.5
702.4050	10.00	-2.77	135888.717	1.0	150121.592	1.0
702.4068	26.00	-1.62	32873.623	4.0	47106.463	4.0
702.4082	24.00	-4.09	27176.220	1.0	41409.030	2.0
702.4150	75.00	-1.83	14518.354	0.0	28754.952	0.0
702.4271	22.00	-2.40	31489.451	4.0	45721.878	4.0
702.4613	26.00	-4.98	36766.950	3.0	50998.686	2.0
702.4724	24.00	-4.80	35870.530	4.0	50102.040	3.0
702.4860	28.00	-1.03	36600.805	2.0	50832.039	3.0
702.5030	73.00	-2.18	10888.765	0.0	25123.580	0.0
702.5149	25.00	-.23	47903.800	4.5	62134.450	5.5
702.5164	18.01	-4.49	191012.350	1.5	205242.970	.5
702.5225	18.00	-3.17	105617.315	2.0	119847.810	1.0
702.5320	42.00	-1.21	26213.694	0.0	40447.921	0.0
702.5608	23.00	-8.74	2220.130	2.5	16449.850	2.5
702.5632	28.01	-.38	120044.950	4.5	134274.620	5.5
702.5658	10.01	-4.52	292033.150	2.5	306262.770	1.5
702.5662	9.02	-.76	452748.540	2.5	466978.150	1.5
702.5756	25.00	-1.69	45060.810	3.5	59290.230	3.5
702.6057	23.00	-1.48	19078.150	3.5	33306.960	4.5
702.6136	25.00	-3.37	51718.220	1.5	65946.870	2.5
702.6176	24.00	-3.13	48445.350	6.0	62673.920	6.0
702.6210	23.00	-4.81	24898.730	2.5	39127.230	1.5
702.6383	13.02	-.64	195641.740	1.5	209869.890	.5
702.6540	55.00	-3.67	14499.257	0.0	28731.013	0.0
702.6600	14.00	-2.20	47284.061	1.0	61511.770	1.0
702.6615	28.01	-4.79	115956.710	2.5	130184.390	2.5
702.7120	13.00	-2.03	32965.643	1.5	47192.300	2.5
702.7129	28.01	-.54	120044.950	4.5	134271.590	4.5
702.7262	26.02	-4.23	192006.940	2.0	206233.310	2.0
702.7386	24.00	-4.48	29824.750	3.0	44050.870	4.0
702.7391	28.01	-1.55	101366.140	2.5	115592.250	1.5
702.7400	40.00	-1.78	4839.451	0.0	19069.465	0.0
702.7475	25.01	-4.17	67910.260	4.0	82136.200	4.0
702.7598	26.00	-2.30	36975.640	3.0	51201.330	2.0
702.7722	28.01	-2.71	105439.850	1.5	119665.290	2.5
702.7796	27.00	-1.04	31699.690	4.5	45924.980	3.5
702.7904	26.02	-1.96	188109.320	0.0	202334.390	1.0
702.7980	44.00	.28	28714.077	0.0	42942.917	0.0
702.8107	15.00	-3.39	67971.140	.5	82195.800	1.5
702.8453	28.01	-4.34	121240.900	3.5	135464.860	3.5
702.8582	26.00	-4.09	24772.019	1.0	38995.717	1.0
702.8588	28.00	-1.91	29888.505	2.0	44112.192	1.0
702.8779	17.02	-2.33	194959.500	2.5	209182.800	1.5
702.8850	17.00	-3.57	83130.900	1.5	97354.057	1.5
702.8917	24.00	-4.48	33762.740	6.0	47985.760	5.0
702.8952	28.00	-3.61	15609.861	2.0	29832.810	3.0
702.9090	24.00	-3.18	35398.020	4.0	49620.690	4.0
702.9506	22.00	-3.12	31489.451	4.0	45711.280	4.0
702.9510	24.00	-2.20	40982.970	2.0	55204.790	3.0
702.9881	18.01	-1.30	190196.160	.5	204417.230	1.5
703.0006	28.00	-1.59	28569.210	2.0	42790.027	2.0
703.0089	28.01	-4.52	121240.900	3.5	135461.550	2.5
703.0257	18.00	-.92	105462.804	3.0	119683.113	2.0
703.0330	72.01	-1.70	20003.065	0.0	34227.148	0.0
703.0376	22.00	-4.31	28638.832	2.0	42858.900	3.0
703.0439	18.01	-4.98	174820.930	.5	189040.870	1.5
703.0746	22.00	-2.79	27887.740	3.0	42107.060	4.0
703.0860	8.02	-2.48	366486.910	1.0	380706.000	2.0
703.0870	26.00	-4.43	32873.623	4.0	47092.693	3.0
703.0905	23.00	-8.38	10892.500	3.5	25111.500	4.5
703.0994	26.00	-3.61	37521.144	2.0	51739.964	2.0
703.1003	12.02	-.82	548720.700	1.0	562939.500	2.0
703.1152	13.01	-1.55	133914.100	2.0	148132.600	3.0
703.1240	71.00	-.68	23390.681	0.0	37612.923	0.0
703.1241	22.00	-4.25	27740.190	2.0	41958.510	2.0
703.1390	26.00	-3.00	40231.312	2.0	54449.330	1.0
703.1510	73.00	-1.99	17260.709	0.0	31482.405	0.0
703.1681	28.01	-4.17	122175.420	2.5	136392.850	3.5
703.1834	28.01	-1.23	120044.950	4.5	134262.070	3.5
703.2050	57.00	-1.07	8952.985	0.0	23173.589	0.0
703.2057	28.01	-4.18	121227.800	2.5	135444.470	3.5
703.2211	28.00	-2.66	42585.296	4.0	56801.654	5.0
703.2289	24.00	-4.41	31009.000	3.0	45225.200	2.0
703.2413	10.00	-.25	134041.840	2.0	148257.790	1.0
703.2487	23.01	-5.90	22273.540	1.0	36489.340	1.0
703.2697	22.00	-2.90	27498.975	3.0	41714.350	2.0
703.2700	28.00	-2.20	44314.980	4.0	58530.350	3.0
703.2982	21.00	-2.86	24656.800	1.5	38871.600	2.5
703.3316	22.00	-3.64	7255.369	2.0	21469.494	3.0
703.3353	27.00	-4.58	33150.680	1.5	47364.730	1.5
703.3571	25.00	-.11	48300.980	1.5	62514.590	2.5
703.3808	28.01	-2.05	104081.040	4.5	118294.170	3.5
703.3840	92.00	-.92	10243.505	0.0	24460.490	0.0
703.4066	23.00	-3.97	23210.560	2.5	37423.170	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUF	JUP
703.4362	9.02	-.61	452770.850	3.5	466982.860	2.5
703.4377	28.00	-1.73	28578.046	3.0	42790.027	2.0
703.4729	22.01	-4.50	16625.250	1.5	30836.520	1.5
703.4853	26.02	-2.44	186303.440	3.0	200514.460	4.0
703.4901	14.00	-1.61	47351.554	2.0	61562.477	3.0
703.4957	24.00	-4.59	31355.710	2.0	45566.020	3.0
703.5130	72.00	-1.88	16696.107	0.0	30910.485	0.0
703.5180	39.00	-.86	18873.860	0.0	33088.137	0.0
703.5224	10.01	-3.33	292033.150	2.5	306243.420	2.5
703.5660	25.00	-2.54	45130.160	4.5	59339.550	3.5
703.5714	28.01	-2.51	103663.500	1.5	117872.780	2.5
703.5759	10.01	-4.97	291801.880	1.5	306011.070	.5
703.5794	18.01	-1.98	191012.350	1.5	205221.470	1.5
703.5815	22.00	-.50	25317.813	1.0	39526.890	2.0
703.5986	14.00	-3.76	50189.389	2.0	64398.120	2.0
703.6006	26.02	-2.16	186998.600	4.0	201207.290	4.0
703.6089	22.00	-4.47	27614.667	4.0	41823.190	3.0
703.6280	90.00	-1.48	11534.025	0.0	25746.080	0.0
703.6355	17.00	-1.34	83130.900	1.5	97338.887	2.5
703.6398	28.01	-1.31	120044.950	4.5	134252.850	3.5
703.6417	28.01	-4.17	116824.150	2.5	131032.010	2.5
703.6898	28.01	-.64	105838.060	3.5	120044.950	4.5
703.7031	26.00	-3.76	40207.120	3.0	54413.740	3.0
703.7115	9.02	-3.64	416168.300	1.5	430374.750	2.5
703.7190	22.00	-3.89	27665.570	1.0	41871.870	2.0
703.7230	29.01	-1.16	122867.530	1.0	137073.750	2.0
703.7367	28.00	-1.07	44314.980	4.0	58520.923	5.0
703.7464	9.00	-0.00	104731.050	1.5	118936.797	1.5
703.7532	26.01	-4.77	86544.140	1.5	100749.750	2.5
703.7581	26.02	-4.47	199804.810	4.0	214010.320	5.0
703.7616	26.00	-4.50	40052.080	2.0	54257.520	2.0
703.7616	28.01	-4.98	120002.860	3.5	134208.300	2.5
703.7747	26.00	-2.57	39625.784	4.0	53830.960	3.0
703.7760	24.01	-3.56	74718.050	1.5	88923.200	2.5
703.7980	42.01	-.65	26455.667	0.0	40664.289	0.0
703.8040	41.00	-1.89	12582.573	0.0	26791.074	0.0
703.8211	26.00	-1.15	34017.084	1.0	48221.323	1.0
703.8290	24.00	-2.83	35618.510	1.0	49822.590	2.0
703.8313	22.00	-3.44	27614.667	4.0	41818.700	4.0
703.8413	22.00	-.86	31628.668	5.0	45832.500	5.0
703.8478	24.01	-4.16	32836.840	3.5	47040.540	2.5
703.8627	6.00	-1.96	69744.030	3.0	83947.430	3.0
703.8681	24.00	-3.49	48458.670	2.0	62661.960	3.0
703.6744	26.00	-1.73	34328.733	3.0	48531.896	3.0
703.8760	45.00	-1.54	16857.422	0.0	31064.470	0.0
703.8761	28.00	-2.09	44314.980	4.0	58518.110	4.0
703.8819	22.00	-.76	18911.399	2.0	33114.412	2.0
703.8880	21.00	-4.92	30706.610	1.5	44909.500	2.5
703.6979	26.02	-1.23	188131.700	1.0	202334.390	1.0
703.9070	73.00	-.90	22261.476	0.0	36467.698	0.0
703.9220	62.01	-1.49	7985.094	0.0	22191.213	0.0
703.9222	26.01	-3.38	86547.550	2.5	100749.750	2.5
703.9280	22.00	-.48	25438.898	2.0	39640.980	3.0
703.9365	28.01	-2.75	101754.800	2.5	115956.710	2.5
703.9544	26.02	-3.41	186303.440	3.0	200504.990	3.0
703.9678	26.00	-3.55	33765.291	2.0	47966.571	3.0
704.0025	23.00	-4.82	17116.920	3.5	31317.500	4.5
704.0062	28.00	-3.12	42621.048	3.0	56821.553	3.0
704.0069	25.00	-.90	48225.990	3.5	62426.480	3.5
704.0095	22.00	-2.48	31489.451	4.0	45689.890	3.0
704.0200	63.00	.17	14437.696	0.0	28641.638	0.0
704.0352	23.00	-3.34	20812.990	1.5	35012.910	.5
704.0391	28.01	-3.47	101366.140	2.5	115565.980	2.5
704.0610	29.01	-4.41	134359.900	1.0	148559.300	2.0
704.1006	30.02	-2.95	220668.300	2.0	234866.900	1.0
704.1158	26.00	-3.53	44511.795	2.0	58710.090	3.0
704.1252	26.00	-1.78	43499.465	4.0	57697.590	4.0
704.1864	24.00	-3.83	31028.330	2.0	45225.200	2.0
704.1983	25.00	-3.06	45060.810	3.5	59257.440	4.5
704.2048	13.01	.35	91271.200	1.0	105467.700	2.0
704.2240	62.01	-1.42	8630.355	0.0	22830.382	0.0
704.2539	27.00	-2.97	32027.500	3.5	46223.010	4.5
704.3098	22.00	-4.60	26892.926	3.0	41087.310	3.0
704.3164	28.00	-2.04	44336.100	4.0	58530.350	3.0
704.3257	22.00	-.37	30060.328	4.0	44254.390	3.0
704.3800	70.01	-.25	47426.622	0.0	61623.504	0.0
704.4405	26.02	-.92	188142.640	2.0	202334.390	1.0
704.4602	26.00	-1.82	39969.830	3.0	54161.182	3.0
704.4876	17.01	-4.52	147605.700	3.0	161796.500	3.0
704.5290	42.00	-1.04	26455.667	0.0	40649.547	0.0
704.5606	9.02	-2.47	416185.420	2.5	430374.750	2.5
704.5686	28.01	-1.32	99132.780	5.5	113321.950	4.5
704.5929	15.00	-3.01	66360.120	1.5	80548.800	2.5
704.5960	57.00	-1.25	2581.041	0.0	16773.571	0.0
704.6272	8.02	-1.08	366594.010	2.0	380782.000	3.0
704.6302	24.00	-3.91	48458.670	2.0	62646.600	2.0
704.6351	6.00	-2.62	69689.480	1.0	83877.310	1.0
704.6378	26.00	-3.73	37162.729	3.0	51350.505	4.0
704.6555	23.02	-.92	147400.620	4.5	161588.040	3.5
704.6709	26.02	-.58	188013.400	4.0	202200.510	3.0
704.6773	15.00	-4.47	67113.820	2.5	81300.800	1.5
704.6810	41.00	-1.23	9436.930	0.0	23627.748	0.0
704.7052	28.01	-4.39	115108.090	2.5	129294.510	2.5
704.7845	28.00	-.77	44336.100	4.0	58520.923	5.0
704.7872	14.03	-.52	291497.500	1.5	305682.270	1.5
704.7921	14.03	.43	291497.600	2.5	305682.270	1.5
704.7981	14.00	-3.19	49399.670	1.0	63584.220	1.0
704.8567	25.02	-4.80	178558.300	1.5	192741.670	.5
704.8810	28.01	-2.25	106133.140	1.5	120316.020	.5
704.8895	23.00	-3.17	20830.200	.5	35012.910	.5
704.9034	23.02	-4.27	146983.380	2.5	161165.810	2.5
704.9203	23.02	-1.67	146139.800	2.5	160321.890	2.5
704.9243	28.00	-1.76	44336.100	4.0	58518.110	4.0
704.9521	28.01	-2.63	91800.050	4.5	105981.500	4.5
704.9632	28.00	-2.63	42585.296	4.0	56766.523	4.0
705.0024	22.00	-3.73	32857.721	3.0	47038.160	3.0
705.0357	14.00	-3.79	49399.670	1.0	63579.440	0.0
705.0660	18.01	-1.59	189934.550	.5	204113.710	1.5
705.0693	22.00	-1.27	18911.399	2.0	33090.492	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUF	JUP
705.1000	64.01	-.95	17825.312	0.0	32007.697	0.0
705.1207	27.00	-4.19	41104.960	2.5	55283.020	2.5
705.1271	21.00	-1.40	25724.720	3.5	39902.650	3.5
705.1441	26.01	-4.25	72238.630	2.5	86416.220	3.5
705.1520	62.01	-1.56	7420.492	0.0	21601.832	0.0
705.1553	26.00	-3.62	33412.706	3.0	47590.070	4.0
705.1654	24.01	-4.30	70317.040	2.5	84494.200	2.5
705.1933	15.00	-2.53	65585.000	2.5	79761.600	2.5
705.2057	24.00	-4.63	31048.850	1.0	45225.200	2.0
705.2724	24.00	-4.54	35398.020	4.0	49573.030	4.0
705.2790	64.00	-2.67	967.890	0.0	15146.676	0.0
705.2868	27.00	-1.62	15774.040	1.5	29948.760	2.5
705.2940	39.00	-1.15	15163.614	0.0	29342.098	0.0
705.2973	28.01	-3.06	115120.000	2.5	129294.510	2.5
705.3047	26.02	-4.34	165719.200	4.0	179893.560	5.0
705.3172	23.00	-4.55	17054.870	2.5	31228.980	2.5
705.3237	25.00	-3.91	51787.920	.5	65961.900	1.5
705.3436	29.01	-2.00	122745.770	2.0	136919.350	3.0
705.3470	24.00	-4.25	31028.330	2.0	45201.840	1.0
705.3490	26.02	-4.99	192006.940	2.0	206180.410	3.0
705.3689	26.02	-.87	188109.580	3.0	202282.650	2.0
705.3789	28.01	-3.44	121227.800	2.5	135400.670	3.5
705.4280	39.00	-1.03	18873.860	0.0	33049.651	0.0
705.4322	17.01	-1.27	132162.000	3.0	146333.800	2.0
705.4601	14.00	-2.82	49850.830	2.0	64022.070	3.0
705.4620	64.01	-.96	18228.600	0.0	32403.708	0.0
705.4970	62.01	-1.83	11292.053	0.0	25466.458	0.0
705.4979	18.01	-2.93	160239.350	1.5	174409.830	1.5
705.4984	14.00	-2.24	49850.830	2.0	64021.300	2.0
705.5238	21.00	-3.41	14926.240	2.5	29096.200	3.5
705.5596	25.00	-2.29	30354.210	3.5	44523.450	3.5
705.5831	22.00	-3.51	27025.652	4.0	41194.420	3.0
705.5855	27.00	-2.68	40345.950	2.5	54514.670	3.5
705.5929	14.00	-1.22	49850.830	2.0	64019.400	3.0
705.6119	22.00	-2.34	11531.760	2.0	25699.950	2.0
705.6308	18.01	-3.83	158167.710	1.5	172335.520	2.5
705.6338	26.02	-1.85	186998.600	4.0	201166.350	3.0
705.6343	24.00	-2.54	37233.500	5.0	51401.240	5.0
705.6374	9.00	-1.64	118427.823	1.5	132595.500	2.5
705.6401	14.00	-2.65	49188.617	2.0	63356.240	2.0
705.6612	13.01	.13	91271.200	1.0	105438.400	1.0
705.6642	28.01	-1.45	99154.810	4.5	113321.950	4.5
705.6672	21.00	-3.73	11557.640	2.5	25724.720	3.5
705.6749	22.00	-2.92	27750.124	5.0	41917.050	4.0
705.6861	12.02	-.11	545820.400	2.0	559987.100	1.0
705.6886	6.00	-2.45	69710.660	2.0	83877.310	1.0
705.7090	28.01	-3.30	105499.050	3.5	119665.290	2.5
705.7215	23.02	-1.49	145978.270	2.5	160144.260	1.5
705.7360	40.00	-1.41	12663.231	0.0	26832.835	0.0
705.7379	24.00	-.47	41043.350	3.0	55209.010	4.0
705.7718	22.00	-3.53	27887.740	3.0	42052.720	3.0
705.7808	28.01	-.68	105838.060	3.5	120002.860	3.5
705.7927	24.01	-4.49	54678.950	4.5	68843.510	3.5
705.7967	26.00	-3.71	29469.010	2.0	43633.491	2.0
705.7972	25.02	-1.64	218596.690	5.5	232761.160	5.5
705.8020	64.01	-1.09	17986.627	0.0	32154.906	0.0
705.8196	28.01	-3.29	116167.760	1.5	130331.780	1.5
705.8244	26.00	-7.70	11976.239	4.0	26140.164	3.0
705.8307	14.00	-2.96	47284.061	1.0	61447.860	2.0
705.8391	28.01	-3.33	115108.090	2.5	129271.720	3.5
705.8417	17.00	-2.17	85244.330	.5	99407.907	.5
705.8710	26.02	-4.03	199884.390	5.0	214047.380	4.0
705.8969	14.00	-4.83	50189.389	2.0	64351.860	1.0
705.8974	14.00	-2.98	50189.389	2.0	64351.850	3.0
705.9253	29.01	-2.66	134359.900	1.0	148521.800	1.0
705.9288	23.00	-2.22	19145.130	5.5	33306.960	4.5
705.9482	24.00	-2.89	41043.350	3.0	55204.790	3.0
705.9617	22.00	-4.51	27740.190	2.0	41901.360	1.0
705.9736	28.01	-2.51	115827.120	3.5	129988.050	2.5
705.9827	26.00	-3.64	44664.061	2.0	58824.810	2.0
705.9940	56.00	.68	9596.000	0.0	23760.426	0.0
706.0165	25.00	-2.92	45130.160	4.5	59290.230	3.5
706.0210	42.00	-2.51	11372.710	0.0	25536.595	0.0
706.0315	28.01	-4.73	121240.900	3.5	135400.670	3.5
706.0413	12.00	-2.78	46403.065	2.0	60562.637	2.0
706.0413	12.00	-3.51	46403.065	2.0	60562.637	3.0
706.0413	12.00	-1.37	46403.065	2.0	60562.637	3.0
706.0670	76.00	-1.95	15082.956	0.0	29245.918	0.0
706.0816	26.00	-2.94	44551.325	3.0	58710.090	3.0
706.0853	28.01	-1.28	107082.210	2.5	121240.900	3.5
706.0883	28.01	-1.48	106007.890	2.5	120166.520	1.5
706.0928	25.01	-4.38	52383.720	4.0	66542.260	5.0
706.0990	69.00	-2.38	8711.012	0.0	22873.332	0.0
706.1299	22.00	-2.47	11639.804	3.0	25797.600	3.0
706.1352	16.01	-1.06	119242.130	1.5	133399.820	1.5
706.1467	28.01	-4.36	121180.550	5.5	135338.010	5.5
706.1597	28.01	-2.29	105499.050	3.5	119656.250	3.5
706.1607	15.00	-1.92	66360.120	1.5	80517.300	2.5
706.1654	55.00	-3.01	14596.845	0.0	28757.833	0.0
706.1661	24.00	-3.23	37244.170	4.0	51401.240	5.0
706.1900	72.00	-.61	25487.776	0.0	39648.271	0.0
706.1901	23.02	-1.00	146223.050	3.5	160379.640	2.5
706.2129	22.00	-3.64	28702.768	3.0	42856.900	3.0
706.2175	18.00	-2.97	112138.980	2.0	126295.020	3.0
706.2235	18.00	-1.30	112138.980	2.0	126294.900	3.0
706.2410	25.00	-.39	48270.910	2.5	62426.480	3.5
706.2435	28.00	-2.03	43654.974	3.0	57810.494	4.0
706.2770	26.00	-2.53	40231.312	2.0	54386.160	1.0
706.2829	28.01	-4.28	121227.800	2.5	135382.530	1.5
706.2853	28.00	-1.00	44475.158	2.0	58629.840	2.0
706.2870	72.00	-.50	25487.776	0.0	39646.326	0.0
706.2950	28.00	-3.50	15734.018	1.0	29888.505	2.0
706.2997	28.00	-2.36	44475.158	2.0	58629.550	3.0
706.3198	28.01	-4.60	113177.610	3.5	127331.600	2.5
706.3340	42.00	-1.65	20164.380	0.0	34321.988	0.0
706.3514	22.00	-3.33	27750.124	5.0	41903.480	5.0
706.3526	28.00	-1.40	36600.805	2.0	50754.137	2.0
706.3558	17.00	-3.19	88080.042	2.5	102233.310	2.5
706.3642	13.01	-.35	91271.200	1.0	105424.300	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
706.3697	24.00	-3.79	31048.850	1.0	45201.640	1.0
706.3757	23.00	-9.53	11100.650	4.5	25253.530	5.5
706.3830	72.00	-1.90	5565.369	0.0	19721.995	0.0
706.3832	24.01	-4.12	74273.480	1.5	88426.200	.5
706.3967	24.01	-4.24	74484.250	2.5	88636.700	1.5
706.4150	14.00	-2.01	49188.617	2.0	63340.700	3.0
706.4331	28.01	-4.12	115120.000	2.5	129271.720	3.5
706.4576	23.00	-4.19	17116.920	3.5	31268.150	3.5
706.4715	26.02	-1.92	188131.700	1.0	202282.650	2.0
706.4725	20.02	-.14	336749.110	1.0	350900.040	2.0
706.4750	14.01	-2.51	112394.820	1.5	126545.700	.5
706.4780	28.01	-.40	120144.170	2.5	134294.990	2.5
706.5025	18.02	-4.28	211004.850	2.0	225155.180	1.0
706.5165	23.00	-3.78	23353.090	3.5	37503.140	2.5
706.5183	22.00	-2.46	11776.806	4.0	25926.820	4.0
706.5190	2.00	-.46	169087.000	0.0	183240.901	0.0
706.5190	2.00	-.68	169087.000	0.0	183240.901	0.0
706.5290	28.01	-4.91	121294.670	4.5	135444.470	3.5
706.5334	28.00	-4.12	42954.234	2.0	57103.946	3.0
706.5709	24.00	-4.18	35501.260	3.0	49650.220	3.0
706.5710	2.00	-1.16	169088.000	0.0	183240.859	0.0
706.5889	6.00	-3.41	69689.480	1.0	83838.080	2.0
706.6124	28.01	-4.83	122441.220	4.5	136589.350	3.5
706.6125	26.00	-2.76	40231.312	2.0	54379.440	3.0
706.6230	57.01	-2.95	0.000	0.0	14151.618	0.0
706.6263	21.00	-3.26	15041.980	3.5	29189.830	4.5
706.6298	28.01	-3.85	122812.970	3.5	136960.750	2.5
706.6363	23.00	-8.34	2424.890	4.5	16572.540	3.5
706.6410	41.00	-2.27	11937.313	0.0	26088.770	0.0
706.6559	22.00	-.92	25493.722	2.0	39640.980	3.0
706.6703	28.01	-3.65	121317.890	3.5	135464.860	3.5
706.6743	28.01	-4.27	122812.970	3.5	136959.860	2.5
706.7214	18.00	-.66	93143.800	2.0	107289.747	2.0
706.7392	28.01	-1.10	107082.210	2.5	121227.800	2.5
706.7450	28.00	-2.09	42621.048	3.0	56766.523	4.0
706.7562	23.00	-3.72	17054.870	2.5	31200.120	1.5
706.7597	26.02	-2.76	186378.940	4.0	200524.120	5.0
706.7727	10.01	-3.24	303518.210	1.5	317663.130	1.5
706.7732	28.01	-4.19	120189.550	.5	134334.460	1.5
706.7972	15.00	-3.26	68088.270	1.5	82232.700	2.5
706.7983	26.00	-1.76	40231.312	2.0	54375.719	2.0
706.8042	14.00	-4.27	49060.601	1.0	63204.690	2.0
706.8370	57.00	-1.78	1048.548	0.0	15196.081	0.0
706.8387	14.03	.17	291497.500	1.5	305641.100	.5
706.8413	26.00	-1.71	32873.623	4.0	47017.170	3.0
706.8432	26.01	-3.12	50142.930	2.5	64286.440	3.5
706.8569	26.00	-2.14	39625.784	4.0	53769.020	4.0
706.8647	18.02	-2.25	211004.850	2.0	225147.930	2.0
706.8734	18.00	-1.21	105617.315	2.0	119760.220	1.0
706.8785	22.00	-3.09	27614.667	4.0	41757.470	3.0
706.9018	17.00	-2.29	88080.042	2.5	102222.380	3.5
706.9064	22.00	-.12	25643.695	3.0	39785.940	4.0
706.9351	28.01	-.53	105861.190	2.5	120002.860	3.5
706.9472	9.00	-1.94	119081.820	.5	133223.250	.5
706.9526	23.00	-9.02	2220.130	2.5	16361.450	1.5
706.9538	26.00	-4.69	20641.110	4.0	34782.406	5.0
706.9841	25.00	-1.30	37420.240	5.5	51560.930	5.5
706.9891	28.01	-4.78	121294.670	4.5	135435.260	4.5
707.0031	28.01	-4.93	116191.470	2.5	130331.780	1.5
707.0100	38.00	-.18	14760.326	0.0	28904.398	0.0
707.0166	24.00	-2.50	35398.020	4.0	49538.060	5.0
707.0181	26.02	-1.15	188142.640	2.0	202282.650	2.0
707.0206	27.00	-3.94	39649.160	3.5	53789.120	3.5
707.0376	27.00	-.86	39649.160	3.5	53788.780	4.5
707.0561	24.01	-4.81	54444.190	3.5	68583.440	2.5
707.0867	17.00	-2.65	88080.042	2.5	102218.680	2.5
707.0946	23.00	-8.42	2311.370	3.5	16449.850	2.5
707.0951	28.00	-3.62	35639.148	3.0	49777.619	3.0
707.1000	64.00	-.98	10485.478	0.0	24627.749	0.0
707.1017	17.00	-4.32	88080.042	2.5	102218.380	1.5
707.1101	6.00	-3.28	69710.660	2.0	83848.830	3.0
707.1172	28.01	-4.27	116893.980	2.5	131032.010	2.5
707.1377	25.00	-4.51	44978.980	1.5	59116.600	2.5
707.1816	14.00	-1.33	48020.074	1.0	62156.816	2.0
707.1829	26.00	-2.12	37157.546	2.0	51294.262	3.0
707.2427	26.02	-3.85	186378.940	4.0	200514.460	4.0
707.2427	23.00	-3.52	17181.980	4.5	31317.500	4.5
707.2547	28.01	-3.93	120199.180	1.5	134334.460	1.5
707.2823	26.00	-2.57	32873.623	4.0	47008.351	5.0
707.2869	28.00	-2.17	43654.974	3.0	57789.611	4.0
707.3630	64.00	-2.13	1693.808	0.0	15830.621	0.0
707.3738	28.01	-2.13	119796.980	2.5	133929.880	3.5
707.3789	17.00	-2.47	85917.937	.5	100050.736	1.5
707.3878	25.00	-3.92	48168.010	4.5	62300.630	4.5
707.4259	23.02	-1.15	146549.620	4.5	160681.480	3.5
707.4349	22.00	-4.13	27740.190	2.0	41871.670	2.0
707.4540	63.00	-.65	15970.189	0.0	30105.384	0.0
707.4549	14.01	-3.30	112394.820	1.5	126526.100	1.5
707.4629	27.00	-1.07	40345.950	2.5	54477.070	3.5
707.4629	14.01	-2.34	112394.980	2.5	126526.100	1.5
707.4704	28.01	-3.98	120203.490	2.5	134334.460	1.5
707.4810	92.00	-1.37	4194.191	0.0	18328.846	0.0
707.4864	6.00	-3.11	69689.480	1.0	83820.130	1.0
707.5045	22.00	-4.00	34078.580	3.0	48208.870	3.0
707.5130	39.00	-1.62	15566.901	0.0	29700.917	0.0
707.5230	41.00	-3.10	5242.739	0.0	19376.555	0.0
707.5395	26.02	-4.45	117950.320	4.0	132079.910	3.0
707.5626	24.00	-2.76	33060.740	3.0	47189.870	4.0
707.5735	17.00	-1.39	83130.900	1.5	97259.811	1.5
707.5776	26.01	-4.58	50157.610	4.5	64286.440	3.5
707.5856	23.01	-6.23	20617.050	2.0	34745.720	3.0
707.5976	28.01	-4.07	120199.180	1.5	134327.610	2.5
707.5981	23.00	-4.72	36897.880	4.5	51026.300	5.5
707.6301	22.00	-2.58	31628.668	5.0	45756.450	5.0
707.6372	6.00	-4.64	75253.970	1.0	89381.610	0.0
707.6437	10.02	-4.83	398192.700	1.0	412320.210	2.0
707.6482	6.00	-3.39	69710.660	2.0	83838.080	2.0
707.6517	25.00	-.33	48168.010	4.5	62295.360	5.5
707.6552	25.00	-1.69	45130.160	4.5	59257.440	4.5
707.6802	22.00	-4.05	33980.639	2.0	48107.420	2.0
707.6853	18.01	-3.94	172213.800	1.5	186340.480	1.5
707.6868	25.00	-1.36	48168.010	4.5	62294.660	3.5
707.6903	28.01	-4.63	121317.890	3.5	135444.470	3.5
707.7003	25.00	-.68	47903.800	4.5	62030.180	4.5
707.7028	18.01	-2.44	143107.600	2.5	157233.930	3.5
707.7100	63.01	-1.21	10001.532	0.0	24131.614	0.0
707.7179	25.00	-2.92	37420.240	5.5	51546.270	4.5
707.7209	24.00	-4.27	27163.200	0.0	41289.170	1.0
707.7229	26.02	-3.37	199884.390	5.0	214010.320	5.0
707.7504	28.01	-4.72	120211.300	5.5	134336.660	4.5
707.7504	28.01	-3.94	120211.300	5.5	134336.680	5.5
707.7845	28.01	-4.80	120199.180	1.5	134323.880	2.5
707.7845	28.01	-4.69	120199.180	1.5	134323.880	1.5
707.7920	23.00	-4.65	15078.250	.5	29202.600	1.5
707.8136	28.01	-3.54	120203.490	2.5	134327.610	2.5
707.8171	28.01	-3.74	120203.490	2.5	134327.540	3.5
707.8276	22.00	-4.22	34204.971	4.0	48328.810	4.0
707.8506	10.02	-3.57	398196.830	2.0	412320.210	2.0
707.8797	28.01	-4.05	122270.050	3.5	136392.850	3.5
707.8822	24.00	-2.34	41086.260	3.0	55209.010	4.0
707.8832	24.01	-3.32	53271.070	2.5	67393.800	3.5
707.8832	23.01	-7.49	20622.990	3.0	34745.720	3.0
707.9098	27.00	-4.60	40827.770	1.5	54949.970	1.5
707.9317	26.00	-2.36	39625.784	4.0	53747.547	3.0
707.9349	24.00	-3.65	35398.020	4.0	49519.720	3.0
707.9995	10.02	-3.09	398192.700	1.0	412313.110	1.0
708.0005	28.01	-3.98	120203.490	2.5	134323.880	2.5
708.0005	28.01	-4.52	120203.490	2.5	134323.880	1.5
708.0311	15.00	-1.94	67113.820	2.5	81233.600	3.5
708.0487	24.00	-2.03	35501.260	3.0	49620.690	4.0
708.0637	27.00	-4.82	40827.770	1.5	54946.900	2.5
708.0938	24.00	-2.18	41086.260	3.0	55204.790	3.0
708.1099	28.01	-1.75	116824.150	2.5	130942.360	1.5
708.1129	28.01	-4.86	116824.150	2.5	130942.300	1.5
708.1220	42.00	-1.67	20003.065	0.0	34124.925	0.0
708.1254	28.01	-1.61	120144.170	2.5	134262.070	3.5
708.1319	28.01	-3.30	115870.280	2.5	129988.050	2.5
708.2066	10.02	-2.55	398196.830	2.0	412313.110	1.0
708.2092	24.01	-4.91	53271.070	2.5	67387.300	2.5
708.2146	28.00	-2.53	36600.805	2.0	50716.927	1.0
708.2339	17.00	-2.13	83364.927	.5	97480.664	1.5
708.2370	62.01	-1.61	7097.862	0.0	21217.429	0.0
708.2443	24.00	-2.29	33113.270	4.0	47228.800	5.0
708.2468	28.01	-3.20	101754.800	2.5	115870.280	2.5
708.2614	28.01	-4.58	120218.220	6.5	134333.410	5.5
708.2614	28.01	-3.87	120218.720	6.5	134333.410	6.5
708.2694	26.02	-4.45	168329.670	3.0	182444.700	3.0
708.2809	26.02	-4.12	137423.000	3.0	151537.800	4.0
708.2970	21.00	-3.50	11610.240	3.5	25724.720	3.5
708.3166	28.01	-3.05	113753.040	4.5	127867.130	4.5
708.3359	26.00	-1.97	39625.784	4.0	53739.488	5.0
708.3688	25.01	-3.54	53698.700	2.0	67811.750	3.0
708.3693	29.01	-2.17	122223.840	0.0	136336.880	1.0
708.3703	25.00	-2.31	48021.430	5.5	62134.450	5.5
708.3708	28.00	-1.38	44475.158	2.0	58588.168	3.0
708.3950	14.00	-1.53	48264.292	3.0	62376.820	3.0
708.3969	13.00	-1.13	32435.435	1.5	46547.924	2.5
708.4180	64.00	-.65	17663.997	0.0	31779.957	0.0
708.4184	23.00	-3.61	17116.920	3.5	31226.980	2.5
708.4220	8.02	-1.67	366594.010	2.0	380706.000	2.0
708.4247	22.00	-3.52	11531.760	2.0	25643.695	3.0
708.4265	26.02	-4.48	137423.000	3.0	151534.900	2.0
708.4275	28.01	-1.59	120144.170	2.5	134256.050	2.5
708.4340	8.01	-.98	234402.480	1.5	248514.230	1.5
708.4430	28.01	-4.04	120222.890	1.5	134334.460	1.5
708.4451	23.00	-4.82	23210.560	2.5	37322.090	3.5
708.4466	15.00	-3.04	65585.000	2.5	79696.500	1.5
708.4576	27.00	-3.30	42434.230	2.5	56545.510	2.5
708.4644	13.00	-.97	32436.778	2.5	46547.924	3.5
708.4644	13.00	-2.28	32436.778	2.5	46547.924	2.5
708.4651	26.02	-3.43	137423.000	3.0	151534.130	3.0
708.4933	23.00	-5.28	9824.580	2.5	23935.150	2.5
708.4958	28.01	-.77	120144.170	2.5	134254.690	1.5
708.4978	27.00	-1.35	15184.040	2.5	29294.520	3.5
708.5048	17.00	-1.71	85244.330	.5	99354.670	1.5
708.5400	73.00	-2.79	9194.957	0.0	23306.486	0.0
708.5484	10.02	-2.84	398210.740	3.0	412320.210	2.0
708.5484	6.00	-3.31	69710.660	2.0	83820.130	1.0
708.5520	62.01	-1.79	8630.355	0.0	22743.645	0.0
708.5520	64.01	-1.24	18067.285	0.0	32180.575	0.0
708.5670	26.00	-4.14	40052.080	2.0	54161.182	3.0
708.5771	30.02	-2.60	221343.600	2.0	235452.500	2.0
708.5882	28.01	-.48	120144.170	2.5	134252.850	3.5
708.6060	44.00	-1.75	16131.564	0.0	30243.719	0.0
708.6459	15.00	-3.53	68088.270	1.5	82195.800	1.5
708.6707	18.00	-2.44	107054.319	0.0	121161.356	1.0
708.6741	26.00	-2.93	29056.312	3.0	43163.282	4.0
708.6744	22.00	-3.13	25107.417	2.0	39214.380	3.0
708.6753	26.00	-2.99	41018.029	2.0	55124.974	3.0
708.6814	17.00	-1.39	83130.900	1.5	97237.723	2.5
708.7102	20.02	-1.71	359520.600	2.0	373626.850	2.0
708.7218	28.01	-2.82	119796.980	2.5	133903.000	1.5
708.7228	28.01	-4.66	121294.670	4.5	135400.670	3.5
708.7293	14.00	-2.16	50189.389	2.0	64295.260	3.0
708.7300	40.00	-1.64	4839.451	0.0	18949.197	0.0
708.7350	44.00	-2.10	12098.628	0.0	26208.274	0.0
708.7454	28.01	-1.81	120144.170	2.5	134249.720	1.5
708.7454	28.01	-3.13	120211.300	5.5	134316.850	6.5
708.7669	26.00	-2.79	44415.057	4.0	58520.160	4.0
708.7670	16.01	-.69	119294.700	2.5	133399.820	1.5
708.7831	6.00	-3.16	69744.030	3.0	83846.630	3.0
708.7871	28.01	-3.97	120222.890	1.5	134327.610	2.5
708.8002	25.01	-4.85	53805.800	4.0	67910.260	4.0
708.8243	22.00	-2.23	11531.760	2.0	25635.740	1.0
708.8300	62.00	-1.68	806.575	0.0	14914.330	0.0
708.8313	25.00	-2.54	30419.610	2.5	44523.450	3.5
708.8449	28.00	-.77	45122.460	1.0	59226.030	1.0
708.8582	18.00	-2.11	105462.804	3.0	119566.110	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
708.8700	25.02	-2.69	218375.610	4.5	232478.680	4.5
708.8710	25.00	-3.41	45013.550	2.5	59116.600	2.5
708.8751	18.01	-4.65	205100.530	5.5	219203.500	6.5
708.8921	24.00	-5.00	36552.130	3.0	50654.760	2.0
708.9139	14.00	-3.19	49028.294	0.0	63130.490	1.0
708.9228	28.01	-3.67	116468.400	1.5	130570.420	.5
708.9430	40.00	-1.47	12259.943	0.0	26365.449	0.0
708.9459	6.00	-2.72	69689.480	1.0	83791.040	2.0
708.9746	28.01	-4.24	120222.890	1.5	134323.680	1.5
708.9751	9.02	-3.57	406904.380	.5	421005.360	.5
708.9796	10.02	-2.80	398192.700	1.0	412293.590	0.0
708.9917	22.00	-4.25	27887.740	3.0	41988.390	3.0
709.0038	28.01	-2.54	103663.500	1.5	117763.910	1.5
709.0053	23.00	-7.16	10892.500	3.5	24992.880	3.5
709.0173	28.00	-4.95	48715.200	4.0	62815.340	5.0
709.0395	26.00	-.99	34121.623	0.0	48221.323	1.0
709.0415	27.00	-4.09	40345.950	2.5	54445.610	2.5
709.0463	20.00	.59	23652.304	1.0	37751.867	2.0
709.0480	26.01	-3.92	66078.340	2.5	80177.870	1.5
709.0506	28.00	-2.61	30163.140	2.0	44262.619	2.0
709.0560	18.01	-2.65	158730.210	2.5	172829.580	1.5
709.0656	18.01	-4.70	205104.320	4.5	219203.500	5.5
709.0827	23.02	-2.25	146223.050	3.5	160321.690	2.5
709.0958	28.01	-3.07	120218.220	6.5	134316.800	7.5
709.1160	62.00	-1.36	3952.218	0.0	18054.283	0.0
709.1496	28.01	-4.99	121862.570	3.5	135960.080	4.5
709.1757	26.00	-2.79	39969.830	3.0	54066.821	2.0
709.1843	24.00	-4.36	35501.260	3.0	49598.080	2.0
709.1883	26.00	-2.28	39969.830	3.0	54066.570	4.0
709.1939	21.00	-4.25	14926.240	2.5	29022.870	2.5
709.2050	9.02	-3.25	406908.950	1.5	421005.360	.5
709.2191	6.00	-4.22	75253.970	1.0	89350.100	2.0
709.2310	20.00	-4.44	23652.304	1.0	37748.197	1.0
709.2462	28.01	-3.73	102742.740	1.5	116838.330	1.5
709.2694	23.00	-3.89	23519.840	4.5	37614.970	3.5
709.2809	26.00	-4.75	36766.950	3.0	50861.850	3.0
709.2844	6.00	-3.96	75255.270	2.0	89350.100	2.0
709.3020	73.00	-2.29	12743.888	0.0	26842.255	0.0
709.3076	26.00	-4.55	36766.950	3.0	50861.320	2.0
709.3162	29.01	-4.11	115665.400	1.0	129759.600	1.0
709.3237	6.00	-3.26	69744.030	3.0	83838.080	2.0
709.3900	64.00	-.62	17986.627	0.0	32083.245	0.0
709.4274	17.00	-1.98	85442.430	1.5	99534.419	.5
709.4400	72.00	-.66	25084.489	0.0	39180.114	0.0
709.4460	40.00	-1.32	12259.943	0.0	26355.449	0.0
709.4521	27.00	-3.49	32654.500	2.5	46746.000	2.5
709.4808	26.02	-1.95	188109.580	3.0	202200.510	3.0
709.5259	28.00	-2.06	42767.900	3.0	56857.933	4.0
709.5261	26.02	-4.47	199884.390	5.0	213974.420	6.0
709.5356	28.00	-.77	42621.048	3.0	56710.889	2.0
709.5403	26.00	-2.83	33946.920	2.0	48036.667	2.0
709.5412	25.02	-4.64	217975.300	2.5	232065.030	2.5
709.5500	62.00	-1.45	1451.835	0.0	15545.275	0.0
709.5590	40.00	-1.25	11534.025	0.0	25627.286	0.0
709.5764	26.02	-4.63	168329.670	3.0	182418.700	4.0
709.5791	26.00	-3.11	40594.413	4.0	54683.390	4.0
709.5970	28.00	-1.28	43654.974	3.0	57743.596	3.0
709.6135	14.00	-2.21	49933.775	3.0	64022.070	3.0
709.6287	22.00	-1.53	25438.898	2.0	39526.890	2.0
709.6330	62.00	-2.01	241.973	0.0	14333.764	0.0
709.6340	71.00	-.69	25084.489	0.0	39176.260	0.0
709.6459	23.00	-4.62	23353.090	3.5	37440.740	4.5
709.6522	14.00	-3.03	49933.775	3.0	64021.300	2.0
709.6656	14.00	-2.10	49399.670	1.0	63486.930	1.0
709.6832	26.02	-3.95	105895.350	1.0	119982.260	1.0
709.7034	28.01	-4.22	120250.170	3.5	134336.680	4.5
709.7074	26.01	-4.83	48039.230	2.5	62125.660	1.5
709.7122	14.00	-1.40	49933.775	3.0	64020.110	4.0
709.7205	23.00	-3.37	17181.980	4.5	31268.150	3.5
709.7473	14.00	-4.47	48264.292	3.0	62349.930	2.0
709.7479	14.00	-2.25	49933.775	3.0	64019.400	3.0
709.7492	24.00	-2.99	33040.100	2.0	47125.700	3.0
709.7497	28.01	-1.01	107142.210	1.5	121227.600	2.5
709.7700	17.00	-2.20	82918.893	2.5	97004.081	1.5
709.7700	40.00	-.96	5484.711	0.0	19573.782	0.0
709.7921	27.00	-2.92	33439.720	4.5	47524.470	4.5
709.7966	28.01	-4.31	115209.850	3.5	129294.510	2.5
709.8110	64.00	-.99	11211.395	0.0	25299.652	0.0
709.8220	74.00	-.06	44280.979	0.0	58369.018	0.0
709.8334	25.01	-3.52	53781.700	3.0	67865.630	4.0
709.8730	64.00	-2.55	161.315	0.0	14248.342	0.0
709.8802	26.00	-4.51	37521.144	2.0	51604.146	3.0
709.8813	26.02	-4.89	168329.670	3.0	182412.650	4.0
709.8868	15.00	-2.02	66343.330	.5	80426.200	1.5
709.8940	41.00	-1.58	12759.943	0.0	26346.553	0.0
709.8998	22.00	-2.75	31628.668	5.0	45711.280	4.0
709.9440	64.00	-1.24	12421.258	0.0	26506.876	0.0
709.9473	28.01	-3.83	120250.170	3.5	134331.840	4.5
709.9589	28.01	-3.90	121180.550	5.5	135261.990	4.5
709.9967	27.00	-2.88	40345.950	2.5	54426.640	1.5
709.9992	24.00	-4.55	37205.880	3.0	51286.520	2.0
710.0113	26.00	-4.60	40052.080	2.0	54132.480	1.0
710.0124	6.00	-1.60	69710.660	2.0	83791.040	2.0
710.0204	26.00	-4.35	21999.132	4.0	36079.353	3.0
710.0224	28.01	-4.64	116145.690	3.5	130225.670	3.5
710.0406	24.00	-3.31	35572.940	2.0	49652.760	2.0
710.0416	20.02	-1.98	359800.570	3.0	373880.370	3.0
710.0540	72.00	-1.72	15566.901	0.0	29650.337	0.0
710.0557	24.00	-4.68	33934.880	3.0	48014.400	4.0
710.0688	27.00	-4.85	33449.180	.5	47528.440	.5
710.0710	64.00	-1.38	10485.478	0.0	24568.577	0.0
710.1182	18.01	-.90	190507.360	1.5	204585.640	2.5
710.1217	22.00	-3.76	33980.639	2.0	48058.850	1.0
710.1294	28.01	-2.59	122441.220	4.5	136519.280	4.5
710.1606	28.01	-4.43	120250.170	3.5	134327.610	2.5
710.1630	92.00	-1.27	4355.506	0.0	18436.780	0.0
710.1640	45.00	.32	30246.570	0.0	44327.824	0.0
710.1642	28.01	-4.36	120250.170	3.5	134327.540	3.5
710.1687	24.00	-2.10	35572.940	2.0	49650.220	3.0
710.1717	27.00	-1.26	40827.770	1.5	54904.990	2.5
710.1730	64.01	-1.56	17825.312	0.0	31906.388	0.0
710.1753	23.00	-4.82	19078.150	3.5	33155.300	4.5
710.1932	28.00	-1.88	36600.805	2.0	50677.599	3.0
710.2010	41.00	-2.28	9436.930	0.0	23517.451	0.0
710.2030	24.00	-2.92	33113.270	4.0	47189.870	4.0
710.2081	28.01	-1.39	116824.150	2.5	130900.650	2.5
710.2222	15.00	-2.09	65787.380	3.5	79865.600	3.5
710.2313	27.00	-4.11	39649.160	3.5	53725.200	4.5
710.2313	25.00	-3.90	41031.480	4.5	55107.520	3.5
710.2318	26.02	-3.47	105906.230	2.0	119982.260	1.0
710.2343	24.00	-4.55	36552.130	3.0	50628.110	3.0
710.2610	23.00	-3.38	17242.050	5.5	31317.500	4.5
710.2615	28.01	-2.75	120166.520	1.5	134241.960	.5
710.2650	42.00	-.91	27584.872	0.0	41664.124	0.0
710.2701	28.01	-4.89	120903.200	3.5	134978.470	2.5
710.2701	28.01	-2.18	105838.060	3.5	119913.330	4.5
710.2765	22.00	-3.20	25227.217	3.0	39302.360	4.0
710.2772	21.00	-4.68	25724.720	3.5	39799.850	3.5
710.2910	40.00	-1.29	5162.081	0.0	19240.818	0.0
710.2924	18.01	-2.78	192556.840	2.5	206631.670	2.5
710.3019	25.00	-.07	48225.990	3.5	62300.630	4.5
710.3115	18.01	-1.16	190511.190	2.5	204585.640	2.5
710.3153	26.00	-4.39	19621.004	5.0	33695.378	5.0
710.3280	7.03	-.78	405893.000	0.0	419971.003	0.0
710.3489	28.01	-4.20	120250.170	3.5	134323.880	2.5
710.3590	26.01	-4.11	50212.930	2.5	64286.440	3.5
710.3620	18.01	-2.77	191169.520	1.5	205242.970	.5
710.3670	24.01	-4.42	53271.070	2.5	67344.420	2.5
710.3720	40.00	-1.53	5000.766	0.0	19077.897	0.0
710.3756	25.02	-3.34	179683.610	4.5	193756.790	4.5
710.4183	9.00	-2.02	118936.797	1.5	133009.130	.5
710.4190	28.01	-3.44	101754.800	2.5	115827.120	3.5
710.4402	10.01	-4.97	291495.040	2.5	305566.940	1.5
710.4450	45.00	-1.67	14679.669	0.0	28755.354	0.0
710.4528	28.01	-3.70	121190.340	4.5	135261.990	4.5
710.4540	62.00	-1.30	2258.411	0.0	16333.918	0.0
710.4786	24.00	-3.56	31987.060	4.0	46058.200	4.0
710.4973	22.00	-4.24	27887.740	3.0	41958.510	2.0
710.5069	23.01	-5.94	20522.140	1.0	34592.720	2.0
710.5095	22.00	-4.10	28788.372	4.0	42856.900	3.0
710.5377	28.01	-4.79	116261.810	.5	130331.780	1.5
710.5418	14.00	-2.94	49060.601	1.0	63130.490	1.0
710.5458	28.01	-4.15	116145.690	3.5	130215.500	4.5
710.5751	26.02	-4.33	186454.890	5.0	200524.120	5.0
710.5833	14.00	-1.85	49028.294	0.0	63097.360	1.0
710.5882	26.00	-3.20	33765.291	2.0	47834.260	3.0
710.5978	23.00	-3.12	23935.150	2.5	38003.930	1.5
710.6033	25.00	-.57	48225.990	3.5	62294.660	3.5
710.6081	22.00	-3.55	27750.124	5.0	41818.700	4.0
710.6170	13.01	-3.50	134181.200	5.0	148249.600	4.0
710.6175	26.02	-3.67	199906.030	6.0	213974.420	6.0
710.6230	62.00	-1.38	3064.986	0.0	17137.145	0.0
710.6281	24.00	-2.82	40906.460	1.0	54974.640	2.0
710.6367	27.00	-3.57	34133.590	3.5	48201.600	3.5
710.6422	13.01	-3.81	134181.200	4.0	148249.100	3.0
710.6422	13.01	-3.04	134181.200	4.0	148249.100	3.0
710.6468	25.01	-2.58	53698.700	2.0	67766.510	2.0
710.6480	63.00	-1.92	0.000	0.0	14071.664	0.0
710.6579	28.01	-4.42	122812.970	3.5	136880.560	4.5
710.6625	13.01	-3.73	134181.200	3.0	148248.700	2.0
710.6695	28.01	-3.49	105588.890	4.5	119656.250	3.5
710.6887	24.01	-3.43	70427.220	3.5	84494.200	2.5
710.6897	18.01	-1.77	192556.840	2.5	206623.800	3.5
710.7322	24.00	-4.41	27223.050	2.0	41289.170	1.0
710.7342	15.00	-2.68	66360.120	1.5	80426.200	1.5
710.7463	26.00	-1.55	33765.291	2.0	47831.132	2.0
710.7485	18.00	-1.61	105617.315	2.0	119683.113	2.0
710.7771	28.01	-2.07	119796.980	2.5	133862.210	1.5
710.7776	28.01	-4.53	101144.630	3.5	115209.850	3.5
710.7908	24.00	-4.00	33060.740	3.0	47125.700	3.0
710.8019	28.00	-1.42	44565.100	3.0	58629.640	2.0
710.8050	73.00	-1.56	22664.763	0.0	36733.319	0.0
710.8145	21.00	-3.39	11520.150	1.5	25584.640	2.5
710.8166	28.00	-1.53	44565.100	3.0	58629.550	3.0
710.8262	23.00	-4.94	9544.540	.5	23608.800	1.5
710.8317	28.01	-4.59	120272.530	4.5	134336.680	4.5
710.8327	28.01	-4.11	120144.170	2.5	134208.300	2.5
710.8357	26.00	-3.66	44760.739	1.0	58824.810	2.0
710.8368	26.01	-4.77	72352.170	3.5	86416.220	3.5
710.8590	28.01	-3.67	119909.720	1.5	133973.330	2.5
710.8671	28.01	-2.91	105981.500	4.5	120044.950	4.5
710.8797	28.01	-3.99	116145.690	3.5	130208.690	3.5
710.8883	28.01	-4.47	120268.810	3.5	134331.840	4.5
710.8914	28.01	-4.33	120270.440	5.5	134333.410	5.5
710.8934	6.00	-1.68	69689.480	1.0	83752.410	1.0
710.9020	14.00	-1.85	49060.601	1.0	63123.360	0.0
710.9055	14.00	-3.69	50189.389	2.0	64252.080	2.0
710.9101	8.02	-2.09	356838.000	1.0	370900.600	2.0
710.9470	28.01	-3.63	115209.850	3.5	129271.720	3.5
710.9480	7.03	-.42	405909.000	0.0	419974.726	0.0
710.9615	9.00	-1.48	118936.797	1.5	132998.380	1.5
710.9707	28.01	-4.91	120270.440	5.5	134331.840	4.5
710.9717	25.00	-1.88	43644.450	1.5	57705.830	.5
710.9803	28.01	-4.21	116145.690	3.5	130206.900	4.5
710.9870	42.00	-.08	25487.776	0.0	39552.731	0.0
711.0294	29.01	-4.39	116326.160	3.0	130386.400	2.0
711.0341	22.00	-1.55	11639.804	3.0	25699.950	2.0
711.0501	25.01	-2.31	53805.800	4.0	67865.630	4.0
711.0527	8.01	-.17	234454.450	2.5	248514.230	1.5
711.0537	28.01	-4.43	116167.760	1.5	130227.520	2.5
711.0633	26.02	-4.76	186454.890	5.0	200514.460	4.0
711.0892	28.00	-2.55	15609.861	2.0	29666.918	3.0
711.0901	24.01	-3.72	54678.950	4.5	68737.990	5.5
711.1058	28.01	-4.95	120268.810	3.5	134327.540	3.5
711.1180	74.00	-2.18	20325.695	0.0	34386.059	0.0
711.1280	7.03	-.90	405909.000	0.0	419971.166	0.0
711.1346	29.01	-4.23	114511.440	1.0	128569.600	2.0
711.1472	6.00	-.81	69689.480	1.0	83747.390	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
711.1493	26.02	-1.33	168142.640	2.0	202200.510	3.0
711.1679	27.00	-4.56	33466.870	3.5	47524.470	4.5
711.1680	40.00	-1.72	4113.534	0.0	18174.909	0.0
711.1849	78.00	-3.56	42653.723	2.0	56710.689	2.0
711.1872	29.01	-3.28	123016.630	3.0	137073.750	2.0
711.2177	26.00	-2.79	24118.815	4.0	38175.332	3.0
711.2479	24.00	-4.54	35398.020	4.0	49453.940	4.0
711.2545	25.00	-2.70	45060.810	3.5	59116.600	2.5
711.2621	28.01	-4.86	120271.970	2.5	134327.610	2.5
711.2820	40.00	-1.31	11856.655	0.0	25915.776	0.0
711.2846	28.00	-1.35	44475.158	2.0	58530.350	3.0
711.2894	15.01	-.19	118342.600	1.0	132397.700	2.0
711.2909	78.01	-4.99	120268.810	3.5	134323.680	2.5
711.2955	27.00	-3.31	39649.160	3.5	53704.140	2.5
711.3178	6.00	-.35	69744.030	3.0	83798.570	4.0
711.3201	14.00	-1.94	48102.323	2.0	62156.616	2.0
711.3319	24.00	-3.72	38537.680	5.0	52591.940	5.0
711.3346	17.00	-2.67	85917.937	.5	99972.144	.5
711.3421	14.01	-1.10	103861.000	.5	117915.660	.5
711.3456	14.00	-3.98	50169.389	2.0	64243.380	2.0
711.3520	40.00	-1.59	12421.258	0.0	26478.996	0.0
711.3537	27.00	-.55	31871.150	3.5	45924.980	3.5
711.3627	28.00	-4.78	42767.900	3.0	56821.553	3.0
711.3730	78.00	-1.54	18470.572	0.0	32527.695	0.0
711.3972	27.00	-.64	39649.160	3.5	53702.130	3.5
711.4175	26.01	-4.16	49506.990	1.5	63559.560	.5
711.4200	28.01	-3.86	112666.300	2.5	126738.820	1.5
711.4296	27.00	-2.75	32654.500	2.5	46706.630	3.5
711.4311	28.01	-4.00	120281.110	4.5	134333.410	5.5
711.4489	18.01	-2.13	191169.520	1.5	205221.470	1.5
711.4509	28.01	-4.57	120271.970	2.5	134323.880	2.5
711.4509	28.01	-4.58	120271.970	2.5	134323.680	1.5
711.4559	26.00	-3.68	21715.735	5.0	35767.546	4.0
711.4712	26.00	-2.62	43922.652	3.0	57974.160	2.0
711.4725	22.00	-4.42	27907.026	2.0	41958.510	2.0
711.5080	58.01	-1.09	14195.724	0.0	28250.380	0.0
711.5106	28.01	-4.45	120281.110	4.5	134331.640	4.5
711.5172	6.00	-.71	69710.660	2.0	83761.260	3.0
711.5182	6.00	-1.55	69689.460	1.0	83740.060	0.0
711.5258	24.01	-4.31	32855.090	2.5	46905.520	1.5
711.5284	24.00	-4.21	36577.730	4.0	50628.110	3.0
711.5299	28.00	-1.97	44475.158	2.0	58525.507	1.0
711.5831	22.01	-4.80	53554.900	2.5	67604.200	3.5
711.6195	24.00	-4.35	27176.220	1.0	41224.600	0.0
711.6221	78.01	-.38	105861.190	2.5	119909.720	1.5
711.6297	28.01	-4.31	116893.980	2.5	130942.360	1.5
711.6770	64.01	-1.11	17905.969	0.0	31957.287	0.0
711.6788	21.00	-4.17	11677.310	4.5	25724.720	3.5
711.6800	57.01	-3.01	7339.834	0.0	21391.093	0.0
711.6991	28.01	-3.95	113172.960	4.5	127219.970	3.5
711.6991	6.00	-.91	69744.030	3.0	83791.040	2.0
711.7092	23.00	-6.42	14548.830	2.5	28595.640	3.5
711.7127	24.01	-3.59	70679.220	4.5	84725.960	3.5
711.7420	22.00	-3.08	31914.277	5.0	45960.439	6.0
711.7488	26.00	-2.94	44664.061	2.0	58710.090	3.0
711.7781	26.01	-4.21	79439.300	3.5	93484.750	4.5
711.7801	27.00	-1.80	39649.160	3.5	53694.570	3.5
711.8091	26.00	-1.62	40404.492	1.0	54449.330	1.0
711.8131	17.00	-4.24	88188.550	1.5	102233.310	2.5
711.8349	24.00	-2.38	40930.310	1.0	54974.640	2.0
711.8603	6.00	-4.19	75255.270	2.0	89299.100	3.0
711.8678	28.01	-3.60	102742.740	1.5	116786.420	.5
711.8851	28.01	-4.97	121294.670	4.5	135338.010	5.5
711.8860	64.01	-.70	18551.230	0.0	32598.423	0.0
711.9028	27.00	-4.87	41225.760	4.5	55268.750	3.5
711.9038	23.01	-7.61	25191.080	2.0	39234.050	3.0
711.9064	28.01	-2.39	115739.150	4.5	129782.070	3.5
711.9310	41.00	-1.93	11937.313	0.0	25983.618	0.0
711.9347	28.01	-4.25	113177.610	3.5	127219.970	3.5
711.9520	72.00	-.86	17825.312	0.0	31871.203	0.0
711.9610	22.00	-2.09	25107.417	2.0	39149.260	2.0
711.9656	6.00	-1.22	69710.660	2.0	83752.410	1.0
711.9985	26.00	-4.86	36766.950	3.0	50808.053	4.0
712.0001	16.01	-1.50	115817.000	2.5	129858.070	1.5
712.0330	56.00	-.10	9033.000	0.0	23077.293	0.0
712.0341	22.01	-2.94	25193.040	2.5	39233.440	1.5
712.0546	26.00	-3.80	33412.706	3.0	47452.702	4.0
712.0722	24.00	-3.24	33934.880	3.0	47974.530	3.0
712.1112	24.00	-3.59	33935.650	2.0	47974.530	3.0
712.1148	23.02	.38	147127.000	2.5	161165.810	2.5
712.1204	28.01	-4.47	116145.690	3.5	130184.390	2.5
712.1270	73.00	-1.13	22664.763	0.0	36707.202	0.0
712.1554	28.01	-1.78	91800.050	4.5	105838.060	3.5
712.1650	28.01	-3.41	122084.790	1.5	136122.610	2.5
712.1731	18.01	-3.33	145668.800	1.5	159706.460	.5
712.1767	26.00	-3.39	40842.130	3.0	54879.720	2.0
712.1772	28.01	-3.37	57420.160	2.5	71457.740	3.5
712.2178	18.01	-3.98	196621.880	3.5	210658.660	2.5
712.2189	14.00	-2.08	49060.601	1.0	63097.360	1.0
712.2191	28.00	.11	28569.210	2.0	42605.964	3.0
712.2203	6.00	-1.53	69710.660	2.0	83747.390	2.0
712.2400	62.01	-1.65	14034.408	0.0	28074.619	0.0
712.2548	28.01	-4.75	116191.470	2.5	130227.520	2.5
712.2558	28.01	-5.00	122086.580	3.5	136122.610	2.5
712.2570	64.00	-2.21	0.000	0.0	14039.876	0.0
712.2644	20.02	-.42	347758.220	2.0	361794.080	1.0
712.2650	42.00	-1.02	27181.584	0.0	41221.302	0.0
712.3059	22.00	-4.69	27480.047	3.0	41515.090	4.0
712.3100	7.03	-.15	405944.000	0.0	419982.631	0.0
712.3152	24.00	-3.41	48636.140	3.0	62671.000	4.0
712.3257	28.00	-2.15	43933.428	2.0	57968.080	3.0
712.3385	28.01	-4.73	116191.470	2.5	130225.870	3.5
712.3462	24.00	-2.58	35618.510	1.0	49652.760	2.0
712.3903	28.01	-1.95	107082.210	2.5	121115.590	1.5
712.4010	25.00	-2.22	43672.660	.5	57705.830	.5
712.4011	22.00	-1.91	25493.722	2.0	39526.690	2.0
712.4137	24.01	-4.42	54444.190	3.5	68477.110	4.5
712.4193	14.00	-2.81	49060.601	1.0	63093.410	2.0
712.4289	16.01	-2.42	114200.450	1.5	128233.070	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
712.4426	28.01	-4.84	117763.910	1.5	131796.260	2.5
712.4436	27.00	-3.74	15184.040	2.5	29216.370	2.5
712.4560	90.00	-2.97	0.000	0.0	14035.955	0.0
712.4939	28.01	-3.90	115956.710	2.5	129986.050	2.5
712.5001	26.00	-4.03	29732.721	1.0	43763.938	1.0
712.5110	62.01	-1.52	12663.231	0.0	26698.102	0.0
712.5206	17.00	-3.81	85735.091	1.5	99765.906	2.5
712.5431	28.01	-4.93	114836.630	3.5	128867.000	3.5
712.5554	17.00	-1.07	88188.550	1.5	102216.680	2.5
712.5594	25.01	-2.46	53781.700	3.0	67811.750	3.0
712.5706	17.00	-1.77	88188.550	1.5	102216.380	1.5
712.5822	18.00	-1.81	107131.755	1.0	121161.356	1.0
712.5840	71.01	-.27	30730.515	0.0	44763.948	0.0
712.5848	14.01	-.80	103885.510	1.5	117915.060	.5
712.5889	28.01	-4.37	116167.760	1.5	130197.230	1.5
712.5970	22.00	-4.12	27887.740	3.0	41917.050	4.0
712.6170	41.00	-1.66	12017.970	0.0	26050.753	0.0
712.6209	22.00	-3.80	34078.580	3.0	48107.420	2.0
712.6677	28.00	-2.11	28578.046	3.0	42605.964	3.0
712.6721	26.00	-2.96	44243.668	5.0	58271.500	5.0
712.6727	29.01	-2.20	123016.630	3.0	137044.450	4.0
712.6925	29.01	-1.56	122745.770	2.0	136773.200	1.0
712.7143	21.00	-3.57	11557.640	2.5	25584.640	2.5
712.7143	23.02	-1.80	146549.620	4.5	160576.620	3.5
712.7210	7.03	-.90	405944.000	0.0	419974.736	0.0
712.7325	17.00	-1.96	82918.893	2.5	96945.536	2.5
712.7448	25.00	-1.59	43595.500	2.5	57621.900	1.5
712.7448	16.01	-1.53	119242.130	1.5	133266.530	.5
712.7546	26.00	-1.65	40231.312	2.0	54257.520	2.0
712.7723	28.01	-4.40	114836.630	3.5	128862.490	4.5
712.7743	24.00	-2.23	48636.140	3.0	62661.960	3.0
712.7834	18.01	-2.68	196633.020	2.5	210656.660	2.5
712.7886	9.00	-.20	105056.282	.5	119061.820	.5
712.7890	18.01	-4.03	196633.020	2.5	210658.550	1.5
712.7920	39.00	-1.55	15163.614	0.0	29192.952	0.0
712.8089	24.00	-2.08	35572.940	2.0	49598.080	2.0
712.8441	22.00	-3.48	25388.334	4.0	39412.780	5.0
712.8699	28.01	-4.19	100845.410	.5	114869.350	1.5
712.8795	25.00	-2.67	48270.910	2.5	62294.660	3.5
712.8815	26.02	-4.33	168420.990	2.0	182444.700	3.0
712.8910	92.00	-1.84	564.603	0.0	14591.993	0.0
712.9000	7.03	-2.08	405944.000	0.0	419971.213	0.0
712.9142	28.00	-.96	44565.100	3.0	58568.168	3.0
712.9243	8.01	-.47	234402.480	1.5	248425.350	.5
712.9293	26.00	-2.70	37046.000	4.0	51066.770	5.0
712.9884	14.00	-2.33	47284.061	1.0	61365.670	1.0
713.0019	22.00	-4.74	28702.768	3.0	42724.110	2.0
713.0060	41.00	-1.90	12582.573	0.0	26607.700	0.0
713.0090	92.00	-1.89	5726.684	0.0	19751.752	0.0
713.0298	22.00	-2.01	11776.806	4.0	25797.600	3.0
713.0407	9.02	-3.99	376814.020	2.5	390834.600	2.5
713.0570	26.01	-4.18	58631.650	4.5	72651.910	3.5
713.0682	28.01	-4.05	119833.000	5.5	133853.040	4.5
713.0914	26.00	-.63	34017.084	1.0	48036.667	2.0
713.1221	26.01	-4.31	58631.650	4.5	72650.630	4.5
713.1504	17.00	-1.62	83130.900	1.5	97149.323	.5
713.1546	29.01	-2.06	123016.630	3.0	137034.970	3.0
713.1800	62.00	-1.85	1451.835	0.0	15473.541	0.0
713.1810	72.00	-2.29	0.000	0.0	14021.686	0.0
713.1816	28.01	-3.58	118294.170	3.5	132311.980	4.5
713.1845	26.00	-4.55	36686.159	4.0	50703.912	5.0
713.2014	28.01	-4.51	116191.470	2.5	130206.890	3.5
713.2086	28.01	-4.01	114836.630	3.5	128853.910	4.5
713.2086	22.00	-4.62	27740.190	2.0	41757.470	3.0
713.2111	6.00	-1.59	69744.030	3.0	83761.260	3.0
713.2162	14.03	-1.72	318742.790	.5	332759.920	1.5
713.2289	23.00	-4.48	23210.560	2.5	37227.440	2.5
713.2598	14.00	-2.55	49188.617	2.0	63204.890	2.0
713.2678	22.00	-3.45	27498.975	3.0	41515.090	4.0
713.2722	24.00	-3.24	35572.940	2.0	49586.970	1.0
713.2737	13.01	-.83	133435.000	2.0	147451.000	3.0
713.2950	40.00	-1.84	11856.655	0.0	25876.100	0.0
713.2976	24.00	-2.04	40971.290	2.0	54966.820	3.0
713.2990	26.00	-1.42	32873.623	4.0	46669.126	4.0
713.3160	64.01	-1.15	18147.942	0.0	32166.974	0.0
713.3185	10.01	-2.64	294086.490	1.5	308101.610	1.5
713.3358	10.01	-1.63	294086.490	1.5	308101.270	2.5
713.3908	24.00	-4.88	39158.630	4.0	53172.330	5.0
713.4080	18.00	-3.93	111818.090	1.0	125831.450	0.0
713.4080	42.01	-2.37	11775.998	0.0	25793.222	0.0
713.4300	27.00	-1.21	32733.070	3.5	46746.000	2.5
713.4554	24.00	-3.71	33113.270	4.0	47125.700	3.0
713.4711	22.00	-4.46	30039.211	5.0	44051.333	6.0
713.5079	26.01	-3.28	50076.100	1.5	64087.500	2.5
713.5140	24.00	-3.81	33906.650	1.0	47917.930	2.0
713.5150	24.00	-4.71	28637.000	3.0	42648.260	3.0
713.5165	26.00	-4.22	31322.603	3.0	45333.834	2.0
713.5359	23.00	-6.53	11100.650	4.5	25111.500	4.5
713.5486	13.01	-1.89	133440.400	3.0	147451.000	3.0
713.5486	13.01	-.93	133440.400	3.0	147451.000	4.0
713.5486	13.01	-1.11	133440.400	3.0	147451.000	4.0
713.5557	24.00	-2.09	48636.140	3.0	62646.600	2.0
713.5705	23.00	-4.03	19145.130	5.5	33155.300	4.5
713.5955	15.00	-2.89	67113.820	2.5	81123.500	2.5
713.6153	26.01	-3.44	86482.750	3.5	100492.040	3.5
713.6372	24.00	-3.91	35813.730	3.0	49822.590	2.0
713.6423	28.01	-4.75	117662.110	1.5	131670.870	2.5
713.6428	25.00	-.68	48021.430	5.5	62030.180	4.5
713.6617	24.00	-2.05	33040.100	2.0	47048.460	3.0
713.6637	29.01	-3.76	122745.770	2.0	136754.110	2.0
713.6689	18.01	-2.02	196621.880	3.5	210630.120	3.5
713.6724	18.01	-3.88	196621.880	3.5	210630.050	2.5
713.6994	18.01	-1.78	190507.360	1.5	204515.600	.5
713.7071	14.02	-2.47	240549.770	2.0	254557.260	3.0
713.7131	24.00	-3.35	33040.100	2.0	47047.470	2.0
713.7170	26.00	-2.89	33412.706	3.0	47420.000	2.0
713.7188	14.02	-3.36	240549.770	2.0	254557.030	2.0
713.7488	28.01	-2.10	116893.980	2.5	130900.650	2.5
713.7651	27.00	-4.28	40345.950	2.5	54354.300	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
713.7712	23.00	-9.32	10892.500	3.5	24898.730	2.5
713.7855	25.01	-3.34	53805.800	4.0	67811.750	3.0
713.7952	24.00	-4.83	48824.500	4.0	62830.260	5.0
713.8076	22.00	-2.27	11531.760	2.0	25537.276	1.0
713.8120	24.00	-3.88	36552.130	3.0	50557.560	4.0
713.8120	27.00	-3.28	31871.150	3.5	45876.580	2.5
713.8125	21.00	-.55	24866.180	1.5	38871.600	2.5
713.8280	40.00	-1.91	12663.231	0.0	26672.208	0.0
713.8426	20.01	-1.96	72722.230	1.5	86727.060	2.5
713.8502	15.00	-3.07	66544.120	2.5	80548.800	2.5
713.8615	23.02	-1.30	146139.800	2.5	160144.260	1.5
713.8854	7.01	-1.66	188857.370	2.0	202861.360	3.0
713.8900	22.00	-4.06	34204.971	4.0	48208.870	3.0
713.8905	22.00	-1.89	11639.804	3.0	25643.695	3.0
713.8925	24.00	-.66	40982.970	2.0	54986.820	3.0
713.9002	13.01	-3.68	133447.300	4.0	147451.000	3.0
713.9002	13.01	-2.12	133447.300	4.0	147451.000	4.0
713.9002	13.01	-2.26	133447.300	4.0	147451.000	4.0
713.9002	13.01	-.59	133447.300	4.0	147451.000	5.0
713.9175	6.00	-3.15	69744.030	3.0	83747.390	2.0
713.9180	24.00	-2.01	40971.290	2.0	54974.640	2.0
713.9599	22.00	-4.77	31829.972	4.0	45832.500	5.0
713.9706	16.01	-1.23	114230.750	2.5	128233.070	2.5
713.9971	29.01	-3.13	134359.900	1.0	148361.700	1.0
714.0124	24.01	-3.83	70317.040	2.5	84318.540	1.5
714.0338	14.03	-2.02	318742.790	.5	332743.870	.5
714.0540	74.00	-2.45	13711.778	0.0	27716.321	0.0
714.0667	22.00	-4.76	29971.078	4.0	43971.513	5.0
714.0740	40.00	-1.67	12759.943	0.0	26264.094	0.0
714.0974	22.00	-2.47	25107.417	2.0	39107.250	1.0
714.1128	25.01	.16	85895.270	2.0	99894.600	3.0
714.1170	64.01	-1.34	18067.285	0.0	32070.593	0.0
714.1348	25.02	-4.09	181949.340	2.5	195948.440	3.5
714.1537	24.00	-4.60	35813.730	3.0	49812.460	3.0
714.1591	28.00	-3.16	42767.900	3.0	56766.523	4.0
714.1598	28.01	-3.23	103663.500	1.5	117662.110	1.5
714.1699	14.00	-4.97	50189.389	2.0	64187.800	3.0
714.1705	29.01	-4.60	116388.000	2.0	130386.400	2.0
714.1720	44.00	-2.05	16938.079	0.0	30940.308	0.0
714.2274	22.00	-1.37	25643.695	3.0	39640.980	3.0
714.2302	25.01	.38	85895.270	2.0	99892.500	2.0
714.2337	15.00	-2.57	66813.040	1.5	80810.200	1.5
714.2368	18.01	-.59	196633.020	2.5	210630.120	3.5
714.2475	26.00	-1.43	39969.830	3.0	53966.720	2.0
714.2550	45.00	-.02	31295.118	0.0	45295.720	0.0
714.2669	28.01	-2.57	105668.780	2.5	119665.290	2.5
714.2690	23.02	-1.15	147169.340	3.5	161165.810	2.5
714.2863	20.01	-1.81	72730.930	2.5	86727.060	3.5
714.2863	20.01	-3.11	72730.930	2.5	86727.060	2.5
714.2960	28.01	-1.86	104298.230	4.5	118294.170	3.5
714.2981	22.00	-.55	31489.451	4.0	45485.350	5.0
714.3134	28.00	-1.00	45122.460	1.0	59118.060	2.0
714.3797	24.00	-4.83	31364.330	3.0	45358.630	4.0
714.3864	24.00	-1.98	33060.740	3.0	47054.910	4.0
714.3980	62.01	-1.87	7985.094	0.0	21982.694	0.0
714.4093	28.01	-4.84	117662.110	1.5	131655.630	.5
714.4470	40.00	-1.74	12663.231	0.0	26660.071	0.0
714.4502	28.01	-4.37	116191.470	2.5	130184.390	2.5
714.4803	25.00	-4.57	49591.510	1.5	63583.840	1.5
714.4910	28.01	-4.14	114874.880	2.5	128867.000	3.5
714.4931	26.02	-4.26	137544.600	2.0	151536.680	1.0
714.5048	26.00	-4.64	40421.890	4.0	54413.740	3.0
714.5094	28.01	-4.57	116824.150	2.5	130815.910	3.5
714.5140	24.00	-2.52	40982.970	2.0	54974.640	2.0
714.5306	26.00	-1.34	37157.546	2.0	51148.692	2.0
714.5397	13.00	-2.17	32949.804	.5	46940.970	1.5
714.5540	76.00	-1.76	15324.929	0.0	29319.673	0.0
714.5610	24.00	-3.34	46637.210	3.0	60627.960	4.0
714.5727	28.01	-3.66	114836.630	3.5	128827.150	3.5
714.5762	22.00	-4.25	31914.277	5.0	45904.730	6.0
714.5840	26.02	-3.78	137544.600	2.0	151534.900	2.0
714.6110	28.01	-2.40	102742.740	1.5	116732.510	2.5
714.6130	64.01	-1.31	17905.969	0.0	31899.557	0.0
714.6156	28.01	-2.49	122086.580	3.5	136076.260	4.5
714.6190	22.00	-1.75	25537.276	1.0	39526.690	2.0
714.6233	26.02	-3.96	137544.600	2.0	151534.130	3.0
714.6359	22.00	-3.43	35035.147	2.0	49024.430	3.0
714.6437	17.00	-1.41	83364.927	.5	97354.057	1.5
714.6657	28.01	-4.31	99418.610	3.5	113407.310	2.5
714.6841	22.00	-1.56	25797.600	3.0	39785.940	4.0
714.7038	18.00	-1.49	93143.800	2.0	107131.755	1.0
714.7148	24.00	-3.43	33060.740	3.0	47048.480	3.0
714.7184	16.01	-1.28	115870.400	1.5	129858.070	1.5
714.7255	28.01	-3.27	56371.410	3.5	70358.940	4.5
714.7281	18.01	-2.55	196621.880	3.5	210609.360	3.5
714.7286	28.01	-2.59	105668.780	2.5	119656.250	3.5
714.7327	18.01	-.48	196621.880	3.5	210609.270	4.5
714.7442	22.00	-1.95	25227.217	3.0	39214.380	3.0
714.7890	92.00	-.79	10243.505	0.0	24233.648	0.0
714.7953	26.00	-4.31	37162.729	3.0	51148.892	2.0
714.8150	20.00	.08	21849.634	2.0	35835.413	2.0
714.8150	20.00	-.16	21849.634	2.0	35835.413	2.0
714.8496	14.02	-.58	243868.500	3.0	257853.600	4.0
714.8496	14.02	-.72	243868.500	3.0	257853.600	4.0
714.8630	73.00	-1.55	12179.286	0.0	26167.980	0.0
714.8645	25.01	-3.41	53781.700	3.0	67766.510	2.0
714.8677	26.00	-4.99	40894.972	2.0	54879.720	2.0
714.8699	26.00	-2.02	34547.192	2.0	48531.696	3.0
714.8777	22.00	-4.53	22081.198	2.0	36065.750	3.0
714.8942	24.00	-1.11	41224.780	4.0	55209.010	4.0
714.8993	22.00	-4.31	27887.740	3.0	41871.870	2.0
714.9417	29.01	-1.72	136799.300	2.0	150782.600	2.0
714.9545	24.00	-3.62	33934.880	3.0	47917.930	2.0
714.9600	62.01	-1.60	7420.492	0.0	21407.288	0.0
714.9770	57.00	-1.64	7581.807	0.0	21568.271	0.0
714.9795	28.01	-4.83	116191.470	2.5	130174.030	1.5
714.9890	76.00	-2.62	10969.423	0.0	24955.652	0.0
714.9939	24.00	-3.36	33935.650	2.0	47917.930	2.0
715.0043	18.00	-3.60	105462.804	3.0	119444.880	2.0

WAVELENGTH	ELEM	LOGCF	ELC	JLO	EUP	JUP
715.0230	58.01	-.75	15163.614	0.0	29149.178	0.0
715.0251	26.00	-3.95	40404.492	1.0	54386.160	1.0
715.0261	24.00	-4.83	33040.100	2.0	47021.750	1.0
715.0280	90.00	-2.56	3790.903	0.0	17776.369	0.0
715.0317	23.02	.47	147606.500	3.5	161566.040	3.5
715.0389	28.01	-3.64	99340.550	3.5	113321.950	4.5
715.0519	22.00	-.80	29818.310	3.0	43799.455	2.0
715.0614	8.02	-2.85	366801.040	3.0	380782.000	3.0
715.0770	64.00	-1.85	7501.149	0.0	21485.657	0.0
715.0946	28.01	-4.09	54176.260	.5	68156.570	1.5
715.1048	28.01	-4.90	116167.760	1.5	130147.670	.5
715.1099	24.00	-1.94	41224.780	4.0	55204.790	3.0
715.1105	14.02	-1.15	243868.500	3.0	257846.500	2.0
715.1171	21.01	-4.95	12101.450	1.0	26081.320	2.0
715.1192	24.00	-4.27	36577.730	4.0	50557.560	4.0
715.1279	25.00	.44	48021.430	5.5	62001.090	6.5
715.1325	24.00	-2.75	35618.510	1.0	49598.080	2.0
715.1365	23.00	-1.67	20767.570	3.5	34747.060	3.5
715.1479	26.00	-4.17	20037.815	0.0	34017.064	1.0
715.1514	25.00	-3.42	51638.170	2.5	65617.370	3.5
715.1621	28.01	-4.08	114874.880	2.5	128853.870	2.5
715.1759	24.01	-4.58	32844.920	1.5	46823.640	.5
715.1903	6.00	-3.63	75253.970	1.0	89232.410	1.0
715.2322	28.01	-3.75	122144.990	2.5	136122.610	2.5
715.2383	17.02	-4.44	188390.100	2.5	202367.600	3.5
715.2409	25.00	-2.40	43644.450	1.5	57621.900	1.5
715.2567	6.00	-4.44	75255.270	2.0	89232.410	1.0
715.2737	26.02	-4.29	137561.100	1.0	151537.910	0.0
715.2977	18.01	-3.97	196633.020	2.5	210609.360	3.5
715.3003	6.00	-3.60	75256.120	0.0	89232.410	1.0
715.3039	24.00	-3.64	31377.960	4.0	45354.180	5.0
715.3039	17.00	-2.14	85735.091	1.5	99711.309	.5
715.3090	38.00	-1.32	21535.558	0.0	35515.530	0.0
715.3199	13.00	-1.91	32965.643	1.5	46941.550	2.5
715.3320	23.01	-6.85	20617.050	2.0	34592.720	2.0
715.3366	26.02	-4.36	137561.100	1.0	151536.680	1.0
715.3474	28.01	-1.86	101144.630	3.5	115120.000	2.5
715.3496	13.00	-2.87	32965.643	1.5	46940.970	1.5
715.3580	56.00	-.34	23632.653	0.0	37611.668	0.0
715.3970	21.00	-6.38	11610.240	3.5	25584.640	2.5
715.4062	15.00	-3.54	65787.380	3.5	79761.600	2.5
715.4277	26.02	-3.92	137561.100	1.0	151534.900	2.0
715.4290	29.00	-1.64	58154.072	0.0	72131.699	0.0
715.4298	27.00	-4.42	32733.070	3.5	46706.830	3.5
715.4493	28.01	-1.70	107142.210	1.5	121115.590	1.5
715.4595	15.00	-1.54	66544.120	2.5	80517.300	2.5
715.4672	27.00	-2.73	16470.600	1.5	30443.630	1.5
715.4940	90.00	-1.90	7178.519	0.0	21154.877	0.0
715.5051	25.02	-2.64	218506.390	3.5	232478.680	4.5
715.5164	18.01	-4.72	205180.360	.5	219152.430	1.5
715.5215	24.01	-4.60	76879.030	3.5	90851.000	4.5
715.5281	23.00	-5.37	9636.960	1.5	23608.800	1.5
715.5595	26.00	-1.32	40404.492	1.0	54375.719	2.0
715.5763	24.00	-3.58	33906.650	1.0	47877.550	1.0
715.5983	28.01	-3.81	120002.860	3.5	133973.330	2.5
715.5988	24.00	-2.29	35618.510	1.0	49588.970	1.0
715.6382	28.01	-.99	107142.210	1.5	121111.900	.5
715.6695	20.00	-4.13	21849.634	2.0	35818.713	3.0
715.6695	20.00	-3.54	21849.634	2.0	35818.713	3.0
715.6701	8.00	.26	102662.026	2.0	116631.094	2.0
715.6736	23.00	-3.97	23353.090	3.5	37322.090	3.5
715.6810	26.00	-2.27	44551.325	3.0	58520.180	4.0
715.6940	90.00	-2.48	4920.109	0.0	18892.561	0.0
715.6951	24.00	-3.35	46524.840	2.0	60493.420	3.0
715.7140	14.01	-4.41	114177.400	3.5	128145.610	3.5
715.7140	14.01	-2.86	114177.400	4.5	128145.610	3.5
715.7140	14.01	-2.98	114177.400	3.5	128145.610	2.5
715.7274	22.00	-2.54	34947.120	1.0	48915.070	2.0
715.7556	9.01	-3.10	255606.240	1.0	269573.640	1.0
715.7597	28.01	-3.53	121294.670	4.5	135261.990	4.5
715.7622	14.00	-3.33	50054.800	4.0	64022.070	3.0
715.7750	29.01	-1.62	108014.660	3.0	121981.680	2.0
715.7761	29.01	-2.41	134675.600	2.0	148642.600	2.0
715.7966	28.01	-3.86	114836.630	3.5	128803.230	2.5
715.8048	25.00	-.24	48168.010	4.5	62134.450	5.5
715.8080	57.00	-1.98	1048.548	0.0	15018.775	0.0
715.8280	64.00	-1.09	10808.108	0.0	24777.944	0.0
715.8309	15.00	-2.14	65373.470	.5	79339.400	1.5
715.8391	16.01	-1.41	115892.300	.5	129858.070	1.5
715.8422	18.00	-4.32	111818.090	1.0	125783.800	1.0
715.8491	26.00	-3.22	29469.010	2.0	43434.585	3.0
715.8541	17.00	-2.36	85442.430	1.5	99407.907	.5
715.8627	14.00	-2.38	50054.800	4.0	64020.110	4.0
715.8658	28.00	-3.17	44565.100	3.0	58530.350	3.0
715.8830	18.00	-1.55	107131.755	1.0	121096.670	0.0
715.8991	14.00	-4.05	50054.800	4.0	64019.400	3.0
715.9150	27.00	-.11	32781.710	2.5	46746.000	2.5
715.9430	41.00	-1.47	8952.985	0.0	22920.577	0.0
715.9519	28.01	-4.09	119889.470	5.5	133853.040	4.5
715.9565	26.02	-4.13	137573.200	0.0	151536.660	1.0
715.9575	28.01	-2.82	101144.630	3.5	115106.090	2.5
715.9898	23.00	-1.80	18805.050	.5	32767.880	1.5
715.9930	90.00	-1.41	13227.833	0.0	27194.450	0.0
716.0078	28.01	-3.56	101247.370	2.5	115209.850	3.5
716.0343	22.00	-2.43	11531.760	2.0	25493.722	2.0
716.0380	25.00	-1.44	43524.080	3.5	57485.970	2.5
716.0683	23.01	-7.44	23391.090	5.0	37352.390	5.0
716.0818	26.00	-3.37	40594.413	4.0	54555.450	4.0
716.0950	24.00	-4.76	31393.400	5.0	45354.180	5.0
716.1119	28.01	-4.49	116275.810	3.5	130236.260	2.5
716.1232	28.01	-4.68	112719.750	3.5	126679.980	4.5
716.1250	57.00	-1.02	6936.547	0.0	20900.590	0.0
716.1599	16.00	-2.89	67876.685	4.0	81836.200	3.0
716.1599	16.00	-1.71	67876.685	4.0	81836.200	4.0
716.1599	16.00	-.85	67876.685	4.0	81836.200	5.0
716.1680	26.00	-4.96	17726.985	2.0	31686.342	2.0
716.1755	18.00	-4.49	111818.090	1.0	125777.300	1.0
716.1909	24.00	-4.29	39158.630	4.0	53117.540	4.0
716.2273	26.01	-3.42	49506.990	1.5	63465.190	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
716.2340	26.00	-1.53	40491.260	0.0	54449.330	1.0
716.2386	23.00	-1.19	28595.640	3.5	42553.620	4.5
716.2412	23.00	-3.39	20769.130	2.5	34747.060	3.5
716.2535	9.01	-4.36	255606.240	1.0	269563.930	2.0
716.2551	18.00	-3.14	107054.319	0.0	121011.979	1.0
716.2653	18.01	-3.31	172213.800	1.5	186171.260	.5
716.2660	74.00	-2.15	18147.942	0.0	32109.236	0.0
716.3110	14.00	-2.14	49399.670	1.0	63356.240	2.0
716.3177	25.02	-1.75	218307.980	2.5	232264.420	3.5
716.3309	15.00	-3.90	67113.820	2.5	81070.000	1.5
716.3315	15.00	-1.98	66343.330	.5	80299.500	1.5
716.3608	29.01	-1.73	134675.600	2.0	148631.200	3.0
716.3746	24.00	-4.09	31393.400	5.0	45348.730	6.0
716.3941	28.01	-3.43	115827.120	3.5	129782.070	3.5
716.4172	17.01	-1.10	158786.400	3.0	172740.900	4.0
716.4397	26.00	-4.56	40207.120	3.0	54161.182	3.0
716.4449	16.01	-1.37	114279.110	3.5	128233.070	2.5
716.4465	26.00	-.39	33801.555	2.0	47755.485	3.0
716.4475	28.01	-4.57	121699.020	1.5	135652.930	1.5
716.4501	26.01	-3.39	65931.460	3.5	79885.320	2.5
716.4660	63.00	-.30	21293.585	0.0	35250.981	0.0
716.4688	14.00	-1.87	47351.554	2.0	61305.050	3.0
716.4814	26.01	-4.92	58666.360	3.5	72619.610	2.5
716.4870	92.00	-1.75	4355.506	0.0	18312.493	0.0
716.4937	28.00	-1.42	44565.100	3.0	58518.110	4.0
716.4947	16.00	-1.74	67883.208	0.0	81836.200	1.0
716.5082	14.00	-2.61	47351.554	2.0	61304.283	2.0
716.5107	24.00	-3.18	35501.260	3.0	49453.940	4.0
716.5317	28.01	-4.92	114874.880	2.5	128827.150	3.5
716.5400	24.01	-2.84	53923.570	4.5	67875.680	3.5
716.5466	15.00	-.89	65450.020	1.5	79402.000	2.5
716.5545	14.00	-1.52	47351.554	2.0	61303.381	3.0
716.5650	16.00	-1.74	67884.577	1.0	81836.200	1.0
716.5650	16.00	-1.44	67884.577	1.0	81836.200	2.0
716.5764	13.01	-3.16	134181.200	4.0	148132.600	3.0
716.5764	13.01	-3.78	134181.200	4.0	148132.600	3.0
716.5940	71.01	-.48	35892.596	0.0	49847.499	0.0
716.6545	25.02	-3.50	218115.150	3.5	232065.030	2.5
716.6668	24.00	-3.51	35862.820	4.0	49812.460	3.0
716.6679	12.01	-2.47	103689.890	3.5	117639.510	3.5
716.6679	12.01	-.92	103689.890	3.5	117639.510	4.5
716.6679	12.01	-1.04	103689.890	2.5	117639.510	3.5
716.6816	16.00	-2.59	67886.847	2.0	81836.200	1.0
716.6816	16.00	-1.59	67886.847	2.0	81836.200	2.0
716.6816	16.00	-1.21	67886.847	2.0	81836.200	3.0
716.6874	25.00	-2.28	43672.660	.5	57621.900	1.5
716.6970	28.00	-1.99	30163.140	2.0	44112.192	1.0
716.7102	18.00	-2.22	105617.315	2.0	119566.110	3.0
716.7240	38.00	-.89	20003.065	0.0	33955.437	0.0
716.7367	24.00	-2.49	35640.690	0.0	49588.970	1.0
716.7418	15.00	-1.43	66360.120	1.5	80308.300	2.5
716.7614	25.01	-.60	99892.500	2.0	113840.300	3.0
716.7819	23.00	-8.17	14514.750	1.5	28462.150	2.5
716.7845	28.01	-4.47	114874.860	2.5	128822.230	1.5
716.7952	16.00	-2.59	67889.058	3.0	81836.200	2.0
716.7952	16.00	-1.56	67889.058	3.0	81836.200	3.0
716.7952	16.00	-1.01	67889.058	3.0	81836.200	4.0
716.8074	22.00	-2.92	32013.534	6.0	45960.439	6.0
716.8130	17.00	-2.13	85735.091	1.5	99681.887	1.5
716.8370	64.00	-1.17	1693.808	0.0	15643.981	0.0
716.8373	22.00	-3.33	18911.399	2.0	32857.721	3.0
716.8714	17.00	-1.00	88272.720	.5	102218.380	1.5
716.8796	25.01	-.53	99894.800	3.0	113840.300	3.0
716.8847	25.01	-.34	99894.800	3.0	113840.200	4.0
716.9048	21.00	-.39	25014.150	2.5	38959.160	3.5
716.9090	40.00	-.88	5807.341	0.0	19756.113	0.0
716.9274	26.01	-4.17	50142.930	2.5	64087.500	2.5
716.9315	26.01	-4.15	86547.550	2.5	100492.040	3.5
716.9516	28.01	-4.75	121317.890	3.5	135261.990	4.5
716.9773	29.01	-2.14	136799.300	2.0	150742.900	3.0
716.9835	14.00	-4.36	49850.830	2.0	63794.310	2.0
716.9840	24.00	-2.54	41043.350	3.0	54986.820	3.0
717.0087	28.00	-1.62	42767.900	3.0	56710.889	2.0
717.0215	23.00	-1.01	28462.150	2.5	42404.890	3.5
717.0241	14.00	-4.22	49850.830	2.0	63793.520	1.0
717.0575	24.00	-2.41	33113.270	4.0	47055.310	5.0
717.0647	24.00	-4.77	33935.650	2.0	47877.550	1.0
717.0661	14.00	-3.40	49188.617	2.0	63130.490	1.0
717.0750	25.01	-1.38	99898.600	4.0	113840.300	3.0
717.0769	22.00	-3.06	27614.667	4.0	41556.330	5.0
717.0781	24.00	-3.39	33113.270	4.0	47054.910	4.0
717.0781	25.01	-4.28	94230.900	2.0	108172.540	1.0
717.0801	25.01	-.56	99898.600	4.0	113840.200	4.0
717.0853	25.01	-.13	99898.600	4.0	113840.100	5.0
717.1053	28.01	-4.18	116824.150	2.5	130765.260	3.5
717.1095	22.00	-1.03	25699.950	2.0	39640.980	3.0
717.1528	14.00	-2.93	48020.074	1.0	61960.260	0.0
717.1640	27.00	-3.16	33150.680	1.5	47090.650	2.5
717.1856	25.01	-3.14	94230.900	2.0	108170.450	2.0
717.1871	28.01	-3.70	114052.040	3.5	127991.560	3.5
717.1943	15.00	-2.04	66360.120	1.5	80299.500	1.5
717.2100	92.00	-1.70	7259.177	0.0	21202.095	0.0
717.2175	18.01	-1.53	205221.470	1.5	219160.400	2.5
717.2242	28.02	-3.81	121412.200	2.0	135351.000	2.0
717.2260	64.01	-1.28	13792.436	0.0	27735.043	0.0
717.2509	28.01	-2.20	119796.980	2.5	133735.260	2.5
717.2556	25.01	.60	85960.410	3.0	99898.600	4.0
717.2607	29.01	-4.60	130945.000	1.0	144883.090	2.0
717.2653	28.01	-1.60	119796.980	2.5	133734.980	3.5
717.2670	62.00	-1.81	2258.411	0.0	16200.221	0.0
717.2900	73.00	-1.80	11130.738	0.0	25072.101	0.0
717.2911	28.01	-4.92	119913.330	4.5	133850.830	3.5
717.3117	25.01	-1.78	99903.100	5.0	113840.200	4.0
717.3168	25.01	-.74	99903.100	5.0	113840.100	5.0
717.3220	25.01	.04	99903.100	5.0	113840.000	6.0
717.3281	27.00	-.99	40345.950	2.5	54282.730	2.5
717.3400	64.01	-1.48	17825.312	0.0	31765.703	0.0
717.3715	28.00	-1.76	36600.805	2.0	50536.742	1.0
717.3939	10.00	-1.31	135888.717	1.0	149824.221	2.0
717.4429	25.00	-2.18	30354.210	3.5	44288.760	4.5
717.4512	25.01	.49	85960.410	3.0	99894.800	3.0
717.5114	15.00	-.81	65787.380	3.5	79720.600	4.5
717.5181	23.00	-4.28	18805.050	.5	32736.140	1.5
717.5547	23.00	-4.67	15270.420	1.5	29202.800	1.5
717.5550	63.00	-.31	15566.901	0.0	29503.115	0.0
717.5696	25.01	.08	85960.410	3.0	99892.500	2.0
717.5830	28.01	-3.70	105981.500	4.5	119913.330	4.5
717.5884	28.00	-1.63	43654.974	3.0	57586.700	2.0
717.5889	26.00	-2.36	36766.950	3.0	50698.666	2.0
717.5943	28.01	-.78	121699.020	1.5	135630.630	2.5
717.6237	25.01	-4.83	88772.300	5.0	102703.340	4.0
717.6278	22.00	-4.60	27887.740	3.0	41818.700	4.0
717.6304	25.00	-5.00	51718.220	1.5	65649.130	2.5
717.6567	15.00	-.80	65585.000	2.5	79515.400	3.5
717.6613	25.00	-2.23	37630.620	4.5	51560.930	5.5
717.6840	26.00	-1.29	40231.312	2.0	54161.182	3.0
717.7530	2.01	-.17	421353.130	0.0	435265.499	0.0
717.7551	24.00	-2.26	31377.960	4.0	45306.450	5.0
717.7623	28.01	-4.31	114874.880	2.5	128803.230	2.5
717.7804	26.00	-3.26	33765.291	2.0	47693.289	3.0
717.7881	24.00	-4.83	28637.000	3.0	42564.850	4.0
717.7901	28.01	-4.44	121050.660	2.5	134978.470	2.5
717.8009	24.00	-4.62	33040.100	2.0	46967.700	2.0
717.8158	9.00	-1.72	119081.820	.5	133009.130	.5
717.8329	21.01	-7.21	12154.340	2.0	26081.320	2.0
717.8411	26.02	-3.76	186597.300	6.0	200524.120	5.0
717.8571	9.02	.07	427459.370	.5	441385.680	1.5
717.8588	22.00	-4.98	31829.972	4.0	45756.450	5.0
717.8659	24.00	-3.79	46448.600	1.0	60374.940	2.0
717.8865	28.01	-2.25	120316.020	.5	134241.960	.5
717.9207	22.00	-5.86	13981.750	1.0	27907.026	2.0
717.9288	27.00	-4.88	32781.710	2.5	46706.830	3.5
717.9571	28.01	-.82	121699.020	1.5	135623.590	1.5
717.9716	28.01	-4.15	113407.310	2.5	127331.600	2.5
717.9958	7.01	-3.94	189335.160	3.0	203258.980	2.0
717.9995	22.00	-4.26	33114.412	2.0	47036.160	3.0
718.0002	26.00	-4.76	11976.239	4.0	25899.974	4.0
718.0133	28.01	-4.69	117872.780	2.5	131796.260	2.5
718.0438	28.01	-2.86	113408.710	1.5	127331.600	2.5
718.0510	14.00	-2.43	49850.830	2.0	63773.580	2.0
718.0660	14.00	-4.96	49850.830	2.0	63773.290	3.0
718.0875	22.00	-2.93	25227.217	3.0	39149.260	2.0
718.0933	28.01	-4.70	116893.980	2.5	130815.910	3.5
718.1026	24.00	-2.12	31364.330	3.0	45286.080	4.0
718.1166	26.00	-1.11	34039.495	4.0	47960.973	4.0
718.1211	26.01	-4.06	31368.450	.5	45289.840	1.5
718.1464	23.00	-3.50	23519.840	4.5	37440.740	4.5
718.1469	28.01	-1.02	121699.020	1.5	135619.910	1.5
718.1878	26.00	-1.51	39625.784	4.0	53545.882	3.0
718.1968	28.00	-.57	30192.268	0.0	44112.192	1.0
718.2027	23.00	-2.15	18805.050	.5	32724.660	.5
718.2058	25.02	-3.54	121197.050	2.5	135116.800	1.5
718.2098	18.01	-1.60	192712.000	1.5	206631.670	2.5
718.2414	28.01	-.89	121699.020	1.5	135618.080	2.5
718.2625	24.01	-3.23	74718.050	1.5	88636.700	1.5
718.2845	22.00	-4.96	31914.277	5.0	45832.500	5.0
718.3137	22.00	-4.77	20062.980	1.0	33960.639	2.0
718.3219	26.00	-3.68	40207.120	3.0	54124.620	4.0
718.3317	16.01	-2.17	115870.400	1.5	129787.710	.5
718.3327	27.00	-4.71	33173.360	3.5	47090.650	2.5
718.3487	15.00	-1.28	66544.120	2.5	80461.100	3.5
718.3704	9.00	-2.61	119081.820	.5	132996.380	1.5
718.3710	77.00	-1.97	18389.915	0.0	32310.299	0.0
718.3964	14.00	-3.61	48020.074	1.0	61936.130	1.0
718.4100	76.00	.16	38312.322	0.0	52231.950	0.0
718.4174	25.00	-1.43	37630.620	4.5	51546.270	4.5
718.4225	27.00	-3.67	33449.180	.5	47364.730	1.5
718.4370	24.00	-4.95	39158.630	4.0	53073.900	3.0
718.4569	14.00	-1.48	45276.188	1.0	59191.072	2.0
718.4695	26.00	-4.59	40052.080	2.0	53966.720	2.0
718.4716	17.02	-3.22	195268.200	1.5	209182.800	1.5
718.4885	14.00	-.74	45276.188	1.0	59190.460	1.0
718.5012	22.00	-2.12	25386.334	4.0	39302.360	4.0
718.5155	28.01	-4.64	115565.980	2.5	129479.730	1.5
718.5196	17.00	-3.46	83894.037	3.5	97807.707	2.5
718.5284	12.02	-2.12	548720.700	1.0	562634.200	1.0
718.5377	23.00	-8.23	14548.830	2.5	28462.150	2.5
718.5480	29.01	-1.85	136336.880	1.0	150250.000	2.0
718.5516	24.00	-1.80	31393.400	5.0	45306.450	5.0
718.5625	24.00	-3.33	35398.020	4.0	49310.860	3.0
718.5645	27.00	-1.77	40345.950	2.5	54256.750	2.5
718.5687	17.00	-1.24	84132.262	2.5	98044.980	1.5
718.5934	17.00	-1.81	85442.430	1.5	99354.670	1.5
718.6012	24.00	-2.02	40906.460	1.0	54818.550	2.0
718.6317	29.01	-4.05	125230.600	3.0	139142.100	2.0
718.6384	14.00	-1.59	49850.830	2.0	63762.200	3.0
718.6740	23.00	-1.00	28595.640	3.5	42506.320	4.5
718.6900	18.01	-4.95	205250.030	3.5	219160.400	2.5
718.6921	28.01	-4.49	118314.820	2.5	132225.150	1.5
718.6957	14.01	-.84	112394.820	1.5	126305.080	2.5
718.7040	14.01	-.69	112394.980	2.5	126305.080	3.5
718.7040	14.01	-1.99	112394.980	2.5	126305.080	2.5
718.7159	18.01	-1.64	190507.360	1.5	204417.230	1.5
718.7319	24.01	-4.38	70584.640	2.5	84494.200	2.5
718.7333	26.00	-.03	33095.922	4.0	47005.455	5.0
718.7567	25.01	-4.92	87580.230	4.0	101489.310	5.0
718.7738	6.00	-4.95	72610.720	2.0	86519.470	1.0
718.7741	14.00	-1.46	49188.617	2.0	63097.360	1.0
718.7975	28.01	-4.94	115565.980	2.5	129474.270	3.5
718.8063	24.00	-1.89	31377.960	4.0	45286.080	4.0
718.8141	28.01	-3.33	105981.500	4.5	119889.470	5.5
718.8182	7.01	-2.13	188857.370	2.0	202765.260	2.0
718.8234	25.01	-4.49	88772.300	5.0	102680.090	5.0
718.8317	28.00	-1.51	45281.152	3.0	59188.780	3.0
718.8571	22.00	-2.10	11531.760	2.0	25438.898	2.0
718.8642	17.01	-1.97	139350.000	1.0	153257.000	2.0
718.8663	24.00	-4.11	33060.740	3.0	46967.700	2.0
718.8663	28.01	-4.72	117763.910	1.5	131670.870	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
718.8963	28.01	-4.38	116824.150	2.5	130730.530	2.5
718.9139	18.01	-2.28	190511.190	2.5	204417.230	1.5
718.9161	26.00	-2.68	24772.019	1.0	38678.015	2.0
718.9330	29.01	-.91	122867.530	1.0	136773.200	1.0
718.9400	58.01	-1.05	13469.806	0.0	27379.173	0.0
718.9433	27.00	-4.08	41041.430	3.5	54946.900	2.5
718.9453	17.00	-1.69	84485.309	1.5	98390.740	.5
718.9570	64.01	-.63	18147.942	0.0	32056.980	0.0
718.9696	8.02	-.84	366801.040	3.0	380706.000	2.0
718.9783	14.00	-1.97	49188.617	2.0	63093.410	2.0
718.9876	72.00	-.49	20795.599	5.0	34700.212	5.0
719.0141	24.00	-3.40	35572.940	2.0	49477.040	2.0
719.0143	26.00	-3.28	25091.620	0.0	38995.717	1.0
719.0431	13.02	-2.87	191484.230	.5	205387.770	1.5
719.0855	29.01	-1.99	123016.630	3.0	136919.350	3.0
719.1370	74.00	-.75	31133.803	0.0	45039.359	0.0
719.1471	25.00	-3.62	35689.980	1.5	49591.510	1.5
719.1502	23.00	-1.39	28462.150	2.5	42363.620	3.5
719.1621	28.01	-1.90	120166.520	1.5	134067.760	1.5
719.1658	26.00	-1.73	40231.312	2.0	54132.480	1.0
719.1660	39.00	-1.04	15566.901	0.0	29471.897	0.0
719.1672	23.00	-3.78	23088.060	1.5	36989.200	2.5
719.1864	26.00	-3.76	29732.721	1.0	43633.491	2.0
719.1973	24.00	-.96	41086.260	3.0	54986.820	3.0
719.2043	22.00	-3.68	27614.667	4.0	41515.090	4.0
719.2107	24.00	-2.22	31355.210	2.0	45255.510	3.0
719.2149	10.01	-4.08	303928.100	.5	317828.320	.5
719.2267	25.00	-2.75	37630.620	4.5	51530.610	3.5
719.2273	28.01	-1.50	121699.020	1.5	135599.000	.5
719.2454	21.01	-3.41	14261.400	4.0	28161.030	3.0
719.3178	24.00	-2.16	40906.460	1.0	54804.690	1.0
719.3184	12.00	-2.61	46403.065	2.0	60301.283	2.0
719.3184	12.00	-3.40	46403.065	2.0	60301.283	3.0
719.3184	12.00	-1.21	46403.065	2.0	60301.283	3.0
719.3282	26.01	-2.94	50142.930	2.5	64040.960	3.5
719.3553	14.00	-2.02	49028.794	0.0	62925.800	1.0
719.3566	27.00	-.34	32027.500	3.5	45924.980	3.5
719.3585	14.00	-.76	45293.629	2.0	59191.072	2.0
719.3824	14.00	-4.88	50189.389	2.0	64086.370	1.0
719.3902	14.00	-1.20	45293.629	2.0	59190.460	1.0
719.4343	6.00	-3.43	72610.720	2.0	86506.700	2.0
719.4415	25.02	-4.62	179339.590	2.5	193235.430	2.5
719.4555	23.00	-3.46	23088.060	1.5	36983.630	1.5
719.4638	16.01	-2.11	115892.300	.5	129787.710	.5
719.4810	63.01	-.95	10243.505	0.0	24142.413	0.0
719.4902	26.00	-2.60	40491.260	0.0	54386.160	1.0
719.4910	17.00	-2.35	83364.927	.5	97259.811	1.5
719.5213	79.01	-2.68	125247.800	2.0	139142.100	2.0
719.5240	56.00	-.25	12266.000	0.0	26164.077	0.0
719.5456	24.00	-5.00	35572.940	2.0	49466.770	2.0
719.5606	28.00	-5.07	13521.352	2.0	27414.893	2.0
719.5930	39.00	.85	36134.569	0.0	50031.313	0.0
719.6052	24.00	-2.62	31393.400	5.0	45286.080	4.0
719.6133	14.00	-2.84	48264.292	3.0	62156.616	2.0
719.6285	23.00	-9.07	11100.650	4.5	24992.880	3.5
719.6343	26.00	-3.92	38175.332	3.0	52067.450	2.0
719.6446	28.01	-4.47	117763.910	1.5	131655.830	.5
719.6453	22.00	-3.16	31829.972	4.0	45721.878	4.0
719.6658	13.02	-3.17	191484.230	.5	205375.740	.5
719.6757	26.00	-2.23	43922.652	3.0	57813.970	3.0
719.6762	25.01	-3.34	65567.070	2.0	79458.380	2.0
719.6821	22.00	-4.62	32013.534	6.0	45904.730	6.0
719.6829	24.00	-1.98	31364.330	3.0	45255.510	3.0
719.6844	22.00	-1.56	25635.740	1.0	39526.890	2.0
719.7011	28.00	-2.79	15609.861	2.0	29500.690	1.0
719.7080	64.01	-.96	18228.600	0.0	32123.124	0.0
719.7153	26.00	-4.93	37157.546	2.0	51048.100	1.0
719.7197	25.00	-2.45	43595.500	2.5	57485.970	2.5
719.7389	28.00	-3.49	40361.254	3.0	54251.353	3.0
719.7761	15.00	-1.78	65450.020	1.5	79339.400	1.5
719.8010	79.01	-3.04	125230.600	3.0	139119.500	3.0
719.8055	22.00	-2.68	27480.047	3.0	41368.860	4.0
719.8057	25.02	-2.71	218375.610	4.5	232264.420	3.5
719.8280	24.00	-2.00	41086.260	3.0	54974.640	2.0
719.8352	24.00	-1.04	40930.310	1.0	54818.550	2.0
719.8620	74.00	-2.23	19115.832	0.0	33007.383	0.0
719.8630	64.00	-1.85	7501.149	0.0	21392.681	0.0
719.9031	28.01	-3.00	106022.790	.5	119909.720	1.5
719.9213	29.01	-3.21	122867.530	1.0	136754.110	2.0
719.9239	28.01	-2.47	120166.520	1.5	134053.050	2.5
720.0040	90.00	-2.02	7178.519	0.0	21067.331	0.0
720.0180	74.00	-2.60	13711.778	0.0	27600.320	0.0
720.0483	25.02	-1.73	218180.900	1.5	232065.030	2.5
720.0514	28.00	-.76	43089.636	5.0	56973.707	5.0
720.0706	29.01	-2.20	134675.600	2.0	148559.300	2.0
720.0888	26.01	-4.89	50157.610	4.5	64040.960	3.5
720.0968	22.00	-3.09	25643.695	3.0	39526.890	2.0
720.1277	24.01	-3.35	53566.220	3.5	67448.820	4.5
720.1303	25.00	-4.80	34138.880	6.5	48021.430	5.5
720.1365	20.02	-3.27	359543.080	4.0	373425.510	4.0
720.1546	15.00	-3.68	66544.120	2.5	80426.200	1.5
720.1593	25.02	-2.39	218596.690	5.5	232478.680	4.5
720.1620	40.00	-.83	15002.299	0.0	28888.064	0.0
720.1744	17.01	-1.26	158768.600	2.0	172650.300	3.0
720.1967	20.02	-4.85	359520.600	2.0	373401.870	3.0
720.2200	20.00	-.75	21849.634	2.0	35730.454	2.0
720.2200	20.00	-1.00	21849.634	2.0	35730.454	2.0
720.2359	9.00	-.42	105056.282	.5	118936.797	1.5
720.2510	18.00	-2.55	107131.755	1.0	121011.979	1.0
720.2666	22.00	-2.48	35035.147	2.0	48915.070	2.0
720.2875	24.00	-3.97	33934.880	3.0	47814.400	3.0
720.2911	24.00	-4.70	33906.650	1.0	47786.100	2.0
720.2974	26.00	-5.00	34636.820	2.0	48516.150	1.0
720.3098	28.01	-1.99	99442.860	4.5	113321.950	4.5
720.3275	24.00	-4.95	33935.650	2.0	47814.400	3.0
720.3375	22.00	-5.86	14028.470	2.0	27907.026	2.0
720.3690	28.01	-4.54	117872.780	2.5	131750.730	3.5
720.3897	24.00	-2.47	31377.960	4.0	45255.510	3.0
720.4069	25.00	-4.42	41230.300	3.5	55107.520	3.5
720.4156	22.00	-3.18	18037.225	4.0	31914.277	5.0
720.4162	25.00	-1.37	43428.580	4.5	57305.620	3.5
720.4763	28.00	-2.50	40361.254	3.0	54237.136	4.0
720.4915	28.01	-.93	105439.850	1.5	119315.440	2.5
720.5450	92.00	-1.29	10566.135	0.0	24444.519	0.0
720.5487	26.00	-4.72	38175.332	3.0	52049.820	2.0
720.5543	24.00	-2.58	40930.310	1.0	54804.690	1.0
720.5564	23.00	-3.73	19023.470	4.5	32897.810	5.5
720.5824	28.01	-2.99	122080.250	2.5	135954.090	3.5
720.6166	17.00	-1.41	83130.900	1.5	97004.081	1.5
720.6167	26.00	-4.55	40052.080	2.0	53925.260	1.0
720.6330	76.00	-2.91	8630.355	0.0	22507.044	0.0
720.6374	24.00	-2.42	31352.420	1.0	45225.200	2.0
720.6452	28.01	-2.19	101247.370	2.5	115120.000	2.5
720.6468	24.00	-1.68	33113.270	4.0	46985.870	5.0
720.6621	22.00	-3.38	18141.229	5.0	32013.534	6.0
720.6685	5.00	-2.53	48611.817	.5	62484.000	1.5
720.6697	9.02	-3.96	418188.480	.5	432060.640	1.5
720.6935	29.01	-1.93	125247.800	2.0	139119.500	3.0
720.6983	18.00	-1.12	107289.747	2.0	121161.356	1.0
720.7116	26.00	-.89	32873.623	4.0	46744.975	3.0
720.7117	25.01	-2.51	94230.900	2.0	108102.250	3.0
720.7154	28.01	-4.44	116893.980	2.5	130765.260	3.5
720.7399	26.00	-.21	33507.102	3.0	47377.909	4.0
720.7524	28.00	-4.58	30392.052	1.0	44262.619	2.0
720.7611	5.00	-2.28	48613.600	1.5	62484.000	2.5
720.7611	5.00	-3.23	48613.600	1.5	62484.000	1.5
720.7788	28.00	-1.72	45122.460	1.0	58992.520	2.0
720.7824	24.00	-2.14	31355.210	2.0	45225.200	2.0
720.7855	29.01	-4.60	130945.000	2.0	144814.930	3.0
720.7879	22.00	-1.50	27498.975	3.0	41368.860	4.0
720.7959	22.00	-4.98	27887.740	3.0	41757.470	3.0
720.8010	90.00	-1.14	8711.012	0.0	22584.467	0.0
720.8222	14.00	-1.41	45321.848	3.0	59191.072	2.0
720.8557	28.01	-4.25	120199.180	1.5	134067.760	1.5
720.8858	6.00	-3.46	73975.910	0.0	87843.910	1.0
720.8940	41.00	-1.66	14115.066	0.0	27986.731	0.0
720.9113	28.01	-4.71	122086.580	3.5	135954.090	3.5
720.9274	28.01	-3.83	116824.150	2.5	130691.350	1.5
720.9436	22.00	-.75	11776.806	4.0	25643.695	3.0
720.9446	15.00	-4.30	66343.330	.5	80210.200	.5
720.9539	25.01	-3.44	68284.380	3.0	82151.070	2.0
720.9657	22.00	-1.27	27614.667	4.0	41481.130	5.0
720.9960	76.00	-2.29	16131.504	0.0	30001.206	0.0
721.0075	25.00	-3.27	35725.850	2.5	49591.510	1.5
721.0080	24.00	-4.38	33906.650	1.0	47772.300	1.0
721.0290	92.00	-1.63	6210.629	0.0	20079.697	0.0
721.0315	14.00	-2.62	49060.601	1.0	62925.800	1.0
721.0472	22.00	-3.04	27750.124	5.0	41615.020	6.0
721.0501	27.00	-4.04	32841.990	4.5	46706.830	3.5
721.0662	28.00	-.77	43089.636	5.0	56954.167	6.0
721.0991	17.01	-2.34	158786.400	3.0	172650.300	3.0
721.1167	27.00	-4.66	41041.430	3.5	54904.990	2.5
721.1817	26.01	-4.47	72261.830	5.5	86124.140	4.5
721.1890	25.00	-1.12	48168.010	4.5	62030.180	4.5
721.1984	28.01	-3.51	101258.010	1.5	115120.000	2.5
721.2139	26.00	-3.71	41018.029	2.0	54879.720	2.0
721.2225	14.00	-2.52	48020.074	1.0	61881.600	1.0
721.2254	15.00	-3.91	66343.330	.5	80204.800	1.5
721.2322	18.01	-4.64	147227.970	.5	161089.310	.5
721.2431	26.00	-1.38	39969.830	3.0	53830.960	3.0
721.2494	28.01	-3.33	106283.160	2.5	120144.170	2.5
721.2567	24.00	-2.37	31364.330	3.0	45225.200	2.0
721.2645	28.01	-2.92	101247.370	2.5	115108.090	2.5
721.2733	18.01	-3.94	172213.800	1.5	186074.350	2.5
721.2741	14.00	-4.18	49933.775	3.0	63794.310	2.0
721.2770	14.00	-1.94	49060.601	1.0	62921.080	2.0
721.2988	15.00	-1.71	66813.040	1.5	80673.100	.5
721.3040	25.01	-2.56	68284.380	3.0	82144.340	3.0
721.3207	10.01	-1.43	280473.580	1.5	294333.220	.5
721.3306	26.00	-4.93	40207.120	3.0	54066.570	4.0
721.3399	22.00	-1.68	14028.470	2.0	27887.740	3.0
721.3477	22.00	-1.75	25926.820	4.0	39785.940	4.0
721.3649	20.02	-4.69	359543.080	4.0	373401.870	3.0
721.3784	24.00	-3.57	35618.510	1.0	49477.040	1.0
721.3784	24.00	-3.16	35618.510	1.0	49477.040	2.0
721.3819	26.00	-3.32	34362.860	1.0	48221.323	1.0
721.3820	62.00	-1.48	2258.411	0.0	16120.692	0.0
721.4013	23.00	-9.46	14910.040	3.5	28768.130	4.5
721.4071	23.02	-2.31	147169.340	3.5	161027.320	4.5
721.4347	21.00	-1.73	25014.150	2.5	38871.600	2.5
721.4503	28.01	-4.17	114874.880	2.5	128732.030	1.5
721.4545	10.01	-3.60	290583.170	1.5	304440.240	.5
721.4711	7.01	-2.71	188857.370	2.0	202714.120	1.0
721.4746	22.00	-3.24	31628.668	5.0	45485.350	5.0
721.4774	24.00	-4.61	28682.180	2.0	42538.810	3.0
721.4779	22.01	-1.78	20891.880	3.5	34748.500	4.5
721.4871	26.00	-2.01	44415.057	4.0	58271.500	5.0
721.4878	9.02	-.05	427459.370	.5	441315.800	.5
721.4992	24.00	-2.98	46637.210	3.0	60493.420	3.0
721.5055	7.01	-2.30	188909.170	1.0	202765.260	2.0
721.5102	22.00	-.28	29818.310	3.0	43674.310	4.0
721.5549	27.00	-4.38	41041.430	3.5	54896.570	3.5
721.5893	28.01	-3.95	119315.440	2.5	133169.920	3.5
721.6007	6.00	-2.90	73975.910	0.0	87830.170	1.0
721.6127	10.01	-2.48	303974.290	1.5	317828.320	.5
721.6138	23.00	-9.31	14514.750	1.5	28368.760	1.5
721.6186	22.00	-1.52	11639.804	3.0	25493.722	2.0
721.6190	24.00	-3.78	37205.880	3.0	51059.790	4.0
721.6211	28.01	-3.84	120199.180	1.5	134053.050	2.5
721.6310	74.00	-2.27	18873.860	0.0	32731.358	0.0
721.6650	26.00	-3.07	40404.492	1.0	54257.520	2.0
721.6659	26.01	-4.74	50187.950	3.5	64040.960	3.5
721.6727	28.01	-4.46	121111.900	.5	134964.780	1.5
721.6846	28.01	-3.16	101357.200	4.5	115209.850	3.5
721.7211	23.00	-2.36	20767.570	3.5	34619.520	2.5
721.7279	25.01	-2.06	68284.380	3.0	82136.200	4.0
721.7336	27.00	-3.65	20500.710	1.5	34352.420	1.5
721.7446	28.01	-4.34	105981.500	4.5	119833.000	5.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
721.7550	63.01	-1.00	9840.217	0.0	23695.334	0.0
721.7592	24.00	-4.95	33934.880	3.0	47786.100	2.0
721.7993	24.00	-3.91	33935.650	2.0	47786.100	2.0
721.8050	90.00	-1.54	9759.560	0.0	23613.717	0.0
721.8090	62.01	-1.98	8469.040	0.0	22323.121	0.0
721.8097	21.00	-1.36	31275.320	3.5	45125.570	4.5
721.8175	24.00	-3.56	46524.840	2.0	60374.940	2.0
721.8186	28.01	-4.55	101258.010	1.5	115108.090	2.5
721.8186	15.00	-3.55	66360.120	1.5	80210.200	.5
721.8457	28.01	-3.74	120203.490	2.5	134053.050	2.5
721.8470	14.00	-1.31	49933.775	3.0	63783.310	4.0
721.8530	24.00	-2.20	31352.420	1.0	45201.640	1.0
721.8603	14.01	-2.73	111184.720	.5	125034.000	1.5
721.8707	27.00	-3.50	32027.500	3.5	45876.580	2.5
721.8801	17.01	-1.39	158723.700	1.0	172572.600	2.0
721.9060	45.00	-1.72	15889.531	0.0	29741.750	0.0
721.9126	26.00	-4.25	36686.159	4.0	50534.435	3.0
721.9134	24.00	-4.82	35618.510	1.0	49466.770	2.0
721.9260	44.00	-.76	25487.776	0.0	39339.611	0.0
721.9285	28.01	-4.20	120002.860	3.5	133850.830	3.5
721.9374	13.01	-3.19	133435.000	2.0	147282.600	2.0
721.9374	13.01	-2.46	133435.000	2.0	147282.800	1.0
721.9374	13.01	-4.73	133435.000	2.0	147282.800	3.0
721.9656	24.00	-.96	40971.290	2.0	54818.550	2.0
721.9686	26.00	-1.19	32873.623	4.0	46720.824	4.0
721.9910	57.00	-1.92	2984.328	0.0	16834.916	0.0
721.9984	24.00	-2.54	31355.210	2.0	45201.840	1.0
722.0070	62.00	.05	16212.162	0.0	30062.443	0.0
722.0172	23.00	-4.65	15571.900	2.5	29418.170	3.5
722.0208	29.01	-3.07	134675.600	2.0	148521.800	1.0
722.0245	15.00	-3.27	65373.470	.5	79219.600	.5
722.0464	9.02	-4.88	413143.860	3.5	426989.570	3.5
722.0469	25.01	.89	86057.400	4.0	99903.100	5.0
722.0754	28.00	-1.08	43258.792	4.0	57103.946	3.0
722.0829	27.00	-4.05	41104.960	2.5	54949.970	1.5
722.0886	24.00	-2.73	46783.060	4.0	60627.960	4.0
722.0902	28.01	-4.22	120222.890	1.5	134067.760	1.5
722.0907	24.00	-3.14	35807.900	2.0	49652.760	2.0
722.1001	15.00	-3.63	66360.120	1.5	80204.800	1.5
722.1204	24.00	-1.82	33060.740	3.0	46905.030	4.0
722.1262	9.02	-2.72	416168.300	1.5	430012.480	1.5
722.1679	22.00	-1.99	25797.600	3.0	39640.980	3.0
722.2170	24.00	-4.63	46448.600	1.0	60291.040	1.0
722.2191	13.01	-2.29	133440.400	3.0	147282.600	2.0
722.2191	13.01	-3.19	133440.400	3.0	147282.800	3.0
722.2211	28.01	-3.19	116145.690	3.5	129988.050	2.5
722.2389	26.01	-3.53	31364.470	1.5	45206.490	.5
722.2430	27.00	-4.27	41104.960	2.5	54946.900	2.5
722.2650	25.00	-2.34	43644.450	1.5	57485.970	2.5
722.2785	26.00	-2.64	40842.130	3.0	54683.390	4.0
722.2817	25.01	.38	86057.400	4.0	99898.600	4.0
722.3145	9.02	-.23	427545.310	1.5	441385.880	1.5
722.3192	14.01	-3.12	111184.720	.5	125025.200	.5
722.3544	14.00	-3.13	49933.775	3.0	63773.580	2.0
722.3668	26.00	-2.23	24335.764	2.0	38175.332	3.0
722.3696	14.00	-2.50	49933.775	3.0	63773.290	3.0
722.3756	23.02	.70	147400.620	4.5	161240.020	5.5
722.3949	24.00	-2.94	35813.730	3.0	49652.760	2.0
722.4241	6.00	-3.51	72610.720	2.0	86449.190	3.0
722.4466	26.01	-3.48	31368.450	.5	45206.490	.5
722.4680	63.00	-.05	21293.585	0.0	35135.028	0.0
722.4800	25.01	-.35	86057.400	4.0	99894.800	3.0
722.5057	28.00	-1.72	45281.152	3.0	59118.060	2.0
722.5244	28.01	-4.44	116893.980	2.5	130730.530	2.5
722.5275	24.00	-2.77	35813.730	3.0	49650.220	3.0
722.5348	24.00	-3.86	35640.690	0.0	49477.040	1.0
722.5573	24.00	-4.59	28679.430	1.0	42515.350	2.0
722.5750	24.00	-1.41	40982.970	2.0	54818.550	2.0
722.5788	26.00	-2.75	40231.312	2.0	54066.821	2.0
722.5793	13.01	-2.13	133447.300	4.0	147282.600	3.0
722.5871	23.00	-9.87	10892.500	3.5	24727.850	2.5
722.6050	74.00	-2.30	19438.462	0.0	33277.281	0.0
722.6208	14.00	-.35	45276.188	1.0	59110.892	2.0
722.6528	28.00	-1.85	43933.428	2.0	57767.520	1.0
722.6676	14.00	-2.46	48102.323	2.0	61936.130	1.0
722.6889	24.00	-2.44	40971.290	2.0	54804.690	1.0
722.7046	17.01	-3.32	144344.000	2.0	158177.100	1.0
722.7678	28.01	-4.73	112906.930	1.5	126738.820	1.5
722.7887	15.01	-2.55	87805.000	2.0	101636.490	1.0
722.7910	22.00	-1.87	25317.813	1.0	39149.260	2.0
722.8020	64.00	-1.20	10808.108	0.0	24643.155	0.0
722.8462	23.00	-1.97	20789.130	2.5	34619.520	2.5
722.8534	55.00	-.44	14499.257	0.0	28333.321	0.0
722.8582	28.01	-3.91	120222.890	1.5	134053.050	2.5
722.8706	26.00	-3.44	22249.430	3.0	36079.353	3.0
722.8839	15.00	-4.64	66343.330	.5	80173.000	.5
722.8840	56.00	-.03	21938.845	0.0	35772.323	0.0
722.9000	82.00	-1.28	21293.585	0.0	35126.757	0.0
722.9105	28.01	-3.42	120144.170	2.5	133973.330	2.5
722.9113	14.00	-1.76	49933.775	3.0	63762.920	4.0
722.9230	14.00	-3.97	50189.389	2.0	64018.310	1.0
722.9476	28.01	-4.73	92792.080	3.5	106620.530	3.5
722.9490	14.00	-1.94	49933.775	3.0	63762.200	3.0
722.9623	28.01	-1.54	116833.150	4.5	130661.320	5.5
722.9696	26.01	-4.81	50212.930	2.5	64040.960	3.5
722.9931	24.01	-4.31	53566.220	3.5	67393.600	3.5
722.9939	18.00	-2.12	105617.315	2.0	119444.680	2.0
723.0114	28.01	-1.98	105838.060	3.5	119665.290	2.5
723.0202	9.02	-3.80	416185.420	2.5	430012.480	1.5
723.0266	22.00	-1.89	25699.950	2.0	39526.890	2.0
723.0395	17.00	-2.57	85442.430	1.5	99269.121	2.5
723.0606	24.00	-1.62	37233.500	5.0	51059.790	4.0
723.0610	20.02	-3.31	359800.570	3.0	373626.650	2.0
723.0733	22.00	-3.46	25368.334	4.0	39214.380	3.0
723.0909	28.01	-3.07	101740.270	3.5	115565.980	2.5
723.1092	28.01	-4.28	115956.710	2.5	129782.070	3.5
723.1332	6.01	.07	131724.370	.5	145549.270	1.5
723.1613	22.00	-4.69	35035.147	2.0	48859.510	1.0
723.1809	27.00	-4.59	40621.620	1.5	54445.610	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
723.2270	38.00	-.99	20003.065	0.0	33829.982	0.0
723.2389	15.00	-2.07	66360.120	1.5	80183.000	2.5
723.2447	26.00	-4.18	31686.342	2.0	45509.112	1.0
723.2907	24.00	-4.55	50890.150	2.0	64712.040	3.0
723.2920	14.00	-3.52	48020.074	1.0	61841.940	2.0
723.2996	24.00	-3.66	40982.970	2.0	54804.690	1.0
723.3007	15.01	-.12	118342.600	1.0	132164.300	2.0
723.3352	22.00	-1.68	17369.590	1.0	31190.631	2.0
723.3389	28.01	-3.97	121925.160	.5	135746.130	1.5
723.3396	22.00	-1.34	18192.577	6.0	32013.534	6.0
723.3450	64.00	-2.34	161.315	0.0	13985.977	0.0
723.3546	18.01	-1.18	147227.970	.5	161048.640	1.5
723.3598	24.01	-4.88	53051.550	1.5	66872.120	.5
723.3739	24.00	-3.70	27223.050	2.0	41043.350	3.0
723.3745	28.01	-4.53	116167.760	1.5	129988.050	2.5
723.3787	24.01	-4.35	55023.300	2.5	68843.510	3.5
723.3933	23.00	-7.43	14548.830	2.5	28368.760	1.5
723.4438	22.00	-4.06	32013.534	6.0	45832.500	5.0
723.4509	23.00	-7.78	14949.300	4.5	28768.130	4.5
723.4540	23.00	-3.10	19145.130	5.5	32963.900	6.5
723.4844	28.01	-2.42	105838.060	3.5	119656.250	3.5
723.5012	24.00	-4.81	33060.740	3.0	46878.610	3.0
723.5189	10.01	-1.14	280268.960	2.5	294086.490	1.5
723.5329	14.00	-.37	45293.629	2.0	59110.892	2.0
723.5462	28.01	-1.01	119796.980	2.5	133613.990	1.5
723.5467	15.00	-1.42	65585.000	2.5	79402.000	2.5
723.5661	23.00	-4.69	20202.490	2.5	34019.120	1.5
723.5787	28.01	-1.80	105499.050	3.5	119315.440	2.5
723.5818	14.00	-.55	45293.629	2.0	59109.959	3.0
723.6190	24.00	-2.48	37244.170	4.0	51059.790	4.0
723.6232	24.00	-.15	41393.470	5.0	55209.010	4.0
723.6421	6.01	.33	131735.520	1.5	145550.700	2.5
723.6467	28.01	-3.28	114052.040	3.5	127867.130	4.5
723.6494	23.00	-3.72	23210.560	2.5	37025.600	3.5
723.6706	17.00	-1.50	83130.900	1.5	96945.536	2.5
723.6798	25.02	-4.35	179683.610	4.5	193498.070	3.5
723.6813	22.00	-2.06	17369.590	1.0	31184.021	1.0
723.7020	62.01	-1.84	12179.286	0.0	25997.128	0.0
723.7034	16.01	-1.92	114162.200	.5	127976.210	1.5
723.7080	74.00	-.02	37102.459	0.0	50920.187	0.0
723.7091	28.01	-4.01	121699.020	1.5	135512.920	2.5
723.7100	72.00	-1.44	4516.821	0.0	18334.510	0.0
723.7102	14.00	-1.31	49060.601	1.0	62874.480	2.0
723.7170	6.01	-.63	131735.520	1.5	145549.270	1.5
723.7186	6.00	-2.72	73975.910	0.0	87789.630	1.0
723.7610	23.00	-4.21	19078.150	3.5	32891.060	3.5
723.7625	15.00	-3.94	66360.120	1.5	80173.000	.5
723.7741	28.01	-1.98	113407.310	2.5	127219.970	3.5
723.7940	17.00	-4.36	82918.893	2.5	96731.172	3.5
723.7980	71.00	-1.15	21293.585	0.0	35109.594	0.0
723.8044	9.02	-3.14	418248.560	1.5	432060.640	1.5
723.8296	28.01	-2.22	104503.220	2.5	118314.820	2.5
723.8360	58.01	-1.03	12340.601	0.0	26155.885	0.0
723.8616	10.01	-3.66	292451.780	1.5	306262.770	1.5
723.8920	44.00	.29	27826.844	0.0	41641.059	0.0
723.9047	28.00	-2.96	43933.428	2.0	57743.596	3.0
723.9101	14.00	-2.58	45321.848	3.0	59131.912	4.0
723.9213	23.00	-.59	28768.130	4.5	42577.980	5.5
723.9229	25.00	-.93	47903.800	4.5	61713.620	5.5
723.9344	24.00	-4.31	35501.260	3.0	49310.860	3.0
723.9381	22.01	-2.35	53128.170	1.5	66937.700	2.5
723.9449	15.00	-1.98	64239.500	.5	78048.900	.5
723.9528	23.00	-2.22	28595.640	3.5	42404.890	3.5
723.9606	28.01	-4.27	122144.990	2.5	135954.090	3.5
723.9633	25.00	-2.17	37737.220	3.5	51546.270	4.5
723.9887	26.00	-1.83	33946.920	2.0	47755.485	3.0
723.9960	22.00	-3.89	12118.394	4.0	25926.820	4.0
724.0093	9.00	-1.87	118936.797	1.5	132744.970	1.5
724.0110	6.00	-1.46	69689.480	1.0	83497.620	2.0
724.0136	28.01	-4.30	120044.950	4.5	133853.040	4.5
724.0225	26.00	-2.90	44166.240	3.0	57974.160	2.0
724.0392	22.00	-4.22	31914.277	5.0	45721.878	4.0
724.0446	10.01	-2.51	303974.290	1.5	317781.790	1.5
724.0460	42.00	-1.10	26616.982	0.0	40428.259	0.0
724.0592	25.02	-4.37	178558.300	1.5	192365.520	1.5
724.0617	28.00	-1.18	45418.858	2.0	59226.030	1.0
724.0640	10.01	-3.71	303974.290	1.5	317781.420	2.5
724.0718	26.01	-4.26	66078.340	2.5	79885.320	2.5
724.0729	24.00	-3.85	35813.730	3.0	49620.690	4.0
724.0839	24.00	-4.58	27176.220	1.0	40982.970	2.0
724.0865	24.00	-4.72	48839.900	1.0	62646.600	2.0
724.0870	72.00	-1.96	2339.068	0.0	16149.563	0.0
724.0881	24.00	-2.07	33040.100	2.0	46846.770	3.0
724.0900	62.01	-1.24	11695.340	0.0	25505.778	0.0
724.0954	23.00	-3.04	20812.990	1.5	34619.520	2.5
724.1022	29.01	-4.50	134675.600	2.0	148482.000	3.0
724.1124	22.00	-4.34	27750.124	5.0	41556.330	5.0
724.1295	28.01	-4.20	120044.950	4.5	133850.830	3.5
724.1321	6.00	-1.58	72610.720	2.0	86416.550	1.0
724.1641	14.00	-2.58	49399.670	1.0	63204.890	2.0
724.1746	27.00	-4.74	40621.620	1.5	54426.640	1.5
724.1762	24.00	-4.21	25106.340	3.0	38911.330	3.0
724.1782	7.01	-2.77	188909.170	1.0	202714.120	1.0
724.1856	24.00	-2.59	39158.630	4.0	52963.440	4.0
724.1970	22.00	-3.95	35035.147	2.0	48839.740	3.0
724.2182	25.00	-3.98	48225.990	3.5	62030.180	4.5
724.2229	28.01	-3.26	105861.190	2.5	119665.290	2.5
724.2233	14.00	-2.72	50499.838	2.0	64303.930	3.0
724.2240	64.01	-1.28	18147.942	0.0	31955.825	0.0
724.2281	17.01	-2.32	158768.600	2.0	172572.600	2.0
724.2346	16.00	-1.50	64888.014	1.0	78691.890	1.0
724.2434	10.00	-4.65	158795.992	1.0	172599.700	0.0
724.2500	42.00	.09	25729.749	0.0	39537.136	0.0
724.2556	14.00	-3.44	48020.074	1.0	61823.550	2.0
724.2869	28.01	-4.56	120250.170	3.5	134053.050	2.5
724.2981	16.00	-1.03	64888.014	1.0	78690.680	2.0
724.3147	22.00	-3.11	8602.340	2.0	22404.690	3.0
724.3420	15.00	-3.45	68088.270	1.5	81890.100	2.5
724.3425	24.00	-4.80	28637.000	3.0	42438.820	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
724.3617	16.00	-1.38	64890.436	0.0	78691.890	1.0
724.3674	22.00	-6.44	14105.680	3.0	27907.026	2.0
724.3708	14.00	-4.35	50189.389	2.0	63990.670	2.0
724.3856	24.00	-4.85	50950.420	3.0	64751.420	4.0
724.4060	21.00	-1.24	31215.760	2.5	45016.370	3.5
724.4066	13.01	-2.34	132776.400	0.0	146577.000	1.0
724.4149	25.01	-2.36	72648.800	4.0	86449.240	4.0
724.4245	16.00	-2.68	64891.632	2.0	78691.890	1.0
724.4365	27.00	-4.69	41104.960	2.5	54904.990	2.5
724.4470	70.00	-1.32	24600.544	0.0	38404.176	0.0
724.4639	16.00	-.76	64891.632	2.0	78691.140	3.0
724.4690	24.01	-4.53	53271.070	2.5	67070.480	1.5
724.4734	17.00	-3.30	85735.091	1.5	99534.419	.5
724.4758	17.00	-2.11	83130.900	1.5	96930.181	.5
724.4806	26.00	-1.37	39969.830	3.0	53769.020	4.0
724.4821	28.01	-2.72	122080.250	2.5	135879.410	3.5
724.4856	22.00	-1.11	11639.804	3.0	25438.898	2.0
724.4881	16.00	-1.50	64891.632	2.0	78690.680	2.0
724.4942	23.00	-8.70	14514.750	1.5	28313.680	.5
724.5166	10.00	-.60	134459.287	1.0	148257.790	1.0
724.5676	14.00	-1.31	50499.838	2.0	64297.370	3.0
724.5761	28.01	-4.10	116893.980	2.5	130691.350	1.5
724.5850	42.00	-1.21	20003.065	0.0	33804.068	0.0
724.6161	26.01	-4.65	72619.610	2.5	86416.220	3.5
724.6176	28.01	-3.84	116191.470	2.5	129988.050	2.5
724.6318	18.01	-3.54	189934.550	.5	203730.860	1.5
724.6591	28.01	-3.83	120271.970	2.5	134067.760	1.5
724.6607	24.00	-2.56	41409.030	2.0	55204.790	3.0
724.6670	75.00	-1.79	14921.641	0.0	28721.083	0.0
724.6975	28.01	-2.85	105861.190	2.5	119656.250	3.5
724.7006	16.01	-4.67	114804.110	2.5	128599.110	3.5
724.7059	25.01	-.63	86897.700	3.0	100692.600	2.0
724.7852	25.00	-1.56	37737.220	3.5	51530.610	3.5
724.7862	17.00	-2.03	85917.937	.5	99711.309	.5
724.7868	15.00	-3.07	67971.140	.5	81764.500	1.5
724.8110	24.00	-4.03	46448.600	1.0	60241.500	0.0
724.8146	28.01	-3.87	122086.580	3.5	135879.410	3.5
724.8190	22.00	-1.56	18037.225	4.0	31829.972	4.0
724.8362	27.00	-3.56	32430.590	5.5	46223.010	4.5
724.8709	24.00	-2.44	33113.270	4.0	46905.030	4.0
724.8771	10.01	-3.86	292451.780	1.5	306243.420	2.5
724.8781	18.00	-3.17	108722.668	0.0	122514.290	1.0
724.8788	27.00	-3.94	41104.960	2.5	54896.570	3.5
724.8871	26.00	-3.32	44022.518	4.0	57813.970	3.0
724.8893	26.02	-4.04	105906.230	2.0	119697.640	2.0
724.8987	26.01	-4.53	50157.610	4.5	63948.840	4.5
724.9134	28.01	-.38	104503.220	2.5	118294.170	3.5
724.9343	26.00	-2.64	44183.607	2.0	57974.160	2.0
724.9424	25.01	.22	86897.700	3.0	100688.100	3.0
724.9480	26.00	-2.29	33765.291	2.0	47555.584	1.0
724.9539	24.00	-4.35	35807.900	2.0	49598.080	2.0
724.9602	24.00	-4.46	24940.610	2.0	38730.670	2.0
724.9844	8.02	-2.07	357111.000	2.0	370900.600	2.0
724.9844	13.01	-1.56	134917.300	1.0	148706.900	0.0
725.0091	27.00	-3.88	15774.040	1.5	29563.170	1.5
725.0112	28.01	-1.64	106007.890	2.5	119796.980	2.5
725.0136	14.00	-1.38	45321.848	3.0	59110.892	2.0
725.0244	28.01	-2.53	91800.050	4.5	105588.890	4.5
725.0270	73.00	-2.39	10888.765	0.0	24681.355	0.0
725.0512	28.01	-2.02	120166.520	1.5	133954.650	.5
725.0627	14.00	-.06	45321.848	3.0	59109.959	3.0
725.1001	24.00	-2.46	35862.820	4.0	49650.220	3.0
725.1011	24.01	-3.82	53566.220	3.5	67353.600	4.5
725.1160	76.00	-1.44	21212.928	0.0	35003.825	0.0
725.1169	6.00	-4.46	72610.720	2.0	86397.800	3.0
725.1233	6.00	-2.22	69710.660	2.0	83497.620	2.0
725.1632	17.01	-4.14	158786.400	3.0	172572.600	2.0
725.1709	22.00	-1.09	11531.760	2.0	25317.613	1.0
725.1722	24.00	-2.90	33060.740	3.0	46846.770	3.0
725.2006	23.00	-1.28	28768.130	4.5	42553.620	4.5
725.2282	14.00	-2.61	49028.294	0.0	62813.260	1.0
725.2350	41.00	-1.72	10082.190	0.0	23870.824	0.0
725.2474	25.01	.80	86897.700	3.0	100682.300	4.0
725.2581	17.00	-1.44	83364.927	.5	97149.323	.5
725.2605	24.00	-4.04	35813.730	3.0	49598.080	2.0
725.2635	26.00	-2.24	33412.706	3.0	47197.000	2.0
725.2663	28.01	-3.13	120268.810	3.5	134053.050	2.5
725.2674	23.00	-7.59	9824.580	2.5	23608.800	1.5
725.2700	64.01	-1.53	13308.491	0.0	27096.460	0.0
725.2790	28.01	-4.24	116786.420	.5	130570.420	.5
725.3410	8.01	-1.72	234402.480	1.5	248185.300	2.5
725.3490	76.00	-1.91	18793.202	0.0	32579.669	0.0
725.3516	24.01	-3.50	74854.080	.5	88636.700	1.5
725.3773	22.00	-1.45	17423.853	2.0	31205.985	3.0
725.3774	18.01	-.38	205221.470	1.5	219003.600	2.5
725.3810	22.00	-1.42	14105.680	3.0	27887.740	3.0
725.3826	18.01	-.96	190732.970	.5	204515.000	.5
725.4084	25.00	-2.69	43524.080	3.5	57305.620	3.5
725.4154	8.00	-1.30	88630.599	1.0	102412.007	1.0
725.4326	28.01	-3.25	120271.970	2.5	134053.050	2.5
725.4332	24.00	-5.00	35807.900	2.0	49588.970	1.0
725.4448	8.00	-1.07	88631.158	2.0	102412.007	1.0
725.4531	8.00	-1.77	88631.315	0.0	102412.007	1.0
725.4721	18.01	-.97	205221.470	1.5	219001.800	1.5
725.5058	24.00	-4.71	35870.530	4.0	49650.220	3.0
725.5185	9.02	-3.56	418188.480	.5	431967.930	.5
725.5276	14.00	-2.31	48102.323	2.0	61881.600	1.0
725.5554	26.00	-6.96	12560.933	3.0	26339.682	2.0
725.5595	28.01	-3.84	122175.420	2.5	135954.090	3.5
725.5601	6.00	-3.07	72610.720	2.0	86389.380	2.0
725.5611	23.00	-3.41	23210.560	2.5	36989.200	2.5
725.5732	25.00	-2.82	37737.220	3.5	51515.630	2.5
725.5795	29.01	-.78	121981.680	2.0	135759.970	2.0
725.6097	26.00	-2.15	39969.830	3.0	53747.547	3.0
725.6259	10.00	-4.04	158795.992	1.0	172573.400	2.0
725.6359	22.00	-3.19	34947.120	1.0	48724.340	2.0
725.6537	7.01	-2.75	188937.240	0.0	202714.120	1.0
725.6581	28.00	-2.29	29013.228	2.0	42790.027	2.0
725.6618	17.00	-.19	71958.363	2.5	85735.091	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
725.6669	9.02	-1.38	457555.170	1.5	471331.800	2.5
725.6788	22.00	-2.82	27418.015	2.0	41194.420	3.0
725.7033	23.00	-4.69	21603.170	4.5	35379.110	3.5
725.7110	62.01	-1.92	12663.231	0.0	26442.821	0.0
725.7128	16.01	-1.26	114200.450	1.5	127976.210	1.5
725.7274	22.00	-3.28	25438.898	2.0	39214.380	3.0
725.7339	28.01	-4.44	121325.090	2.5	135100.450	3.5
725.7423	24.00	-3.33	41043.350	3.0	54818.550	2.0
725.7561	26.00	-2.82	43922.652	3.0	57697.590	4.0
725.7597	28.01	-2.95	106369.300	1.5	120144.170	2.5
725.7655	21.00	-.30	31350.810	4.5	45125.570	4.5
725.8108	17.02	-2.48	195268.200	1.5	209042.100	.5
725.8170	40.00	-1.84	11856.655	0.0	25634.233	0.0
725.8545	23.00	-4.00	23210.560	2.5	36963.630	1.5
725.8557	22.00	-1.42	18141.229	5.0	31914.277	5.0
725.8720	63.00	.11	21454.900	0.0	35231.434	0.0
725.8793	29.01	-4.78	134743.000	4.0	148515.600	4.0
725.8886	26.00	-4.74	17550.180	3.0	31322.603	3.0
725.8957	18.01	-3.95	161048.640	1.5	174820.930	.5
725.9125	26.01	-4.22	72352.170	3.5	86124.140	4.5
725.9268	13.01	-1.11	133679.300	3.0	147451.000	4.0
725.9268	13.01	-.93	133679.300	3.0	147451.000	4.0
725.9494	15.00	-2.06	66343.330	.5	80114.600	1.5
725.9534	22.00	-4.87	20209.444	2.0	33980.639	2.0
725.9905	9.02	-1.17	427545.310	1.5	441315.800	.5
726.0205	28.00	-.77	45418.858	2.0	59188.780	3.0
726.0385	15.00	-3.36	65450.020	1.5	79219.600	.5
726.0606	28.01	-4.03	122080.250	2.5	135849.410	2.5
726.0628	29.01	-3.12	123304.630	1.0	137073.750	2.0
726.0907	23.00	-4.25	19078.150	3.5	32846.740	2.5
726.0907	23.00	-4.95	19078.150	3.5	32846.740	2.5
726.0965	26.02	-3.28	105929.160	3.0	119697.640	2.0
726.1000	26.00	-3.64	21999.132	4.0	35767.546	4.0
726.1012	10.01	-1.89	294333.220	.5	308101.610	1.5
726.1062	28.00	-1.21	43089.636	5.0	56857.933	4.0
726.1229	23.00	-1.01	28595.640	3.5	42363.620	3.5
726.1255	26.00	-1.48	39625.784	4.0	53393.715	4.0
726.1450	62.01	-2.34	9356.272	0.0	23127.626	0.0
726.1490	26.00	-1.58	36766.950	3.0	50534.435	3.0
726.1640	60.01	-2.28	8307.725	0.0	22078.719	0.0
726.1651	26.00	-4.93	40534.180	3.0	54301.360	4.0
726.1847	10.00	-4.70	158795.992	1.0	172562.800	1.0
726.1863	22.00	-1.89	17423.853	2.0	31190.631	2.0
726.1919	28.00	-3.04	15734.018	1.0	29500.690	1.0
726.2168	24.00	-3.41	46524.840	2.0	60291.040	1.0
726.2252	26.01	-3.21	49506.990	1.5	63273.030	2.5
726.2284	26.02	-4.22	184951.620	3.0	198717.600	4.0
726.2569	24.00	-1.09	40906.460	1.0	54671.900	1.0
726.2620	72.00	-2.29	14357.039	0.0	28126.175	0.0
726.2621	24.00	-3.16	33113.270	4.0	46878.610	3.0
726.2660	64.00	-2.22	483.945	0.0	14253.605	0.0
726.2769	10.01	-4.78	291801.880	1.5	305566.940	1.5
726.2770	63.00	-.34	15324.929	0.0	29093.780	0.0
726.2819	22.00	-4.84	27750.124	5.0	41515.090	4.0
726.2906	23.01	-6.15	20980.920	2.0	34745.720	3.0
726.2933	23.00	-4.09	19023.470	4.5	32788.220	4.5
726.3234	15.00	-1.92	66544.120	2.5	80306.300	2.5
726.3355	17.00	-3.76	85917.937	.5	99681.887	1.5
726.4170	39.01	-1.71	14760.326	0.0	28526.524	0.0
726.4257	23.00	-1.00	20767.570	3.5	34529.810	4.5
726.4363	24.00	-.31	41224.780	4.0	54986.820	3.0
726.4439	28.00	-2.20	44206.185	3.0	57968.080	3.0
726.4760	40.00	-1.01	14921.641	0.0	28686.721	0.0
726.4970	26.01	-2.81	50187.950	3.5	63948.840	4.5
726.5173	18.00	-2.23	106087.305	1.0	119847.810	1.0
726.5192	26.02	-1.97	117950.320	4.0	131710.790	5.0
726.5313	28.01	-2.97	122441.220	4.5	136201.460	3.5
726.5351	22.00	-2.29	17423.853	2.0	31184.021	1.0
726.5482	24.00	-4.57	27223.050	2.0	40982.970	2.0
726.5651	26.00	-4.17	40207.120	3.0	53966.720	2.0
726.5714	23.01	-8.08	23391.090	5.0	37150.570	4.0
726.5725	25.02	-4.12	178816.960	2.5	192576.420	2.5
726.5762	6.00	-3.52	73975.910	0.0	87735.300	1.0
726.5809	24.00	-3.34	35813.730	3.0	49573.030	4.0
726.5905	28.01	-3.55	116468.400	1.5	130227.520	2.5
726.6031	6.00	-4.08	72610.720	2.0	86369.600	2.0
726.6058	18.01	-4.01	205242.970	.5	219001.800	1.5
726.6210	28.00	-.75	45281.152	3.0	59039.693	4.0
726.6232	25.01	-.28	86936.800	2.0	100695.300	1.0
726.6264	22.00	-1.65	13981.750	1.0	27740.190	2.0
726.6348	27.00	-3.69	32464.730	4.5	46223.010	4.5
726.6353	26.02	-3.08	199804.810	4.0	213563.080	5.0
726.6384	26.00	-1.90	44243.668	5.0	58001.880	6.0
726.6480	25.02	-2.39	218506.390	3.5	232264.420	3.5
726.6491	24.00	-4.96	31355.210	2.0	45113.220	3.0
726.6565	24.00	-2.86	35862.820	4.0	49620.690	4.0
726.6866	13.01	-2.43	132819.700	3.0	146577.000	2.0
726.6972	13.01	-3.27	132819.900	1.0	146577.000	1.0
726.6972	13.01	-3.05	132819.900	1.0	146577.000	0.0
726.6972	13.01	-4.35	132819.900	1.0	146577.000	2.0
726.6972	13.01	-2.79	132819.900	2.0	146577.000	1.0
726.6972	13.01	-3.18	132819.900	2.0	146577.000	2.0
726.6998	25.02	-4.15	218307.980	2.5	232065.030	2.5
726.7135	18.00	-2.98	108722.668	0.0	122479.459	1.0
726.7206	28.00	-3.71	42954.234	2.0	56710.889	2.0
726.7341	13.01	-1.31	134917.300	1.0	148673.700	1.0
726.7620	42.00	-2.47	11775.998	0.0	25535.661	0.0
726.7658	25.01	.31	86936.800	2.0	100692.600	2.0
726.7710	14.00	-3.02	50189.389	2.0	63945.090	3.0
726.7870	28.01	-4.47	120903.200	3.5	134658.600	4.5
726.7880	15.00	-3.33	66544.120	2.5	80299.500	1.5
726.8180	45.00	-1.60	14679.669	0.0	28436.272	0.0
726.8192	24.00	-4.55	35862.820	4.0	49617.610	5.0
726.8355	15.00	-2.56	66360.120	1.5	80114.600	1.5
726.8398	15.00	-2.08	65585.000	2.5	79339.400	1.5
726.8424	28.01	-2.98	99418.610	3.5	113172.960	4.5
726.8507	22.00	-.70	27614.667	4.0	41366.460	4.0
726.8562	24.00	-4.68	27176.220	1.0	40956.310	1.0
726.8582	26.00	-3.39	31307.235	4.0	45061.287	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
726.8620	28.01	-4.86	123434.600	4.5	137188.580	4.5
726.8683	28.01	-2.72	101366.140	2.5	115120.000	2.5
726.8805	24.00	-4.74	33934.880	3.0	47688.510	4.0
726.8826	6.00	-3.43	69744.030	3.0	83497.620	2.0
726.9201	28.01	-4.42	101247.370	2.5	115000.250	3.5
726.9307	23.00	-4.93	19145.130	5.5	32897.810	5.5
726.9318	14.00	-2.57	49060.601	1.0	62813.260	1.0
726.9587	28.01	-1.28	93390.060	2.5	107142.210	1.5
726.9804	28.01	-2.14	120316.020	.5	134067.760	1.5
727.0036	25.01	.52	86936.800	2.0	100688.100	3.0
727.0090	57.00	-1.33	6936.547	0.0	20691.535	0.0
727.0300	57.00	-2.61	1048.548	0.0	14803.139	0.0
727.0322	24.00	-4.94	35884.400	5.0	49635.160	6.0
727.0354	29.01	-4.20	125230.600	3.0	138981.300	2.0
727.0658	18.00	-2.38	105462.804	3.0	119212.930	3.0
727.0820	45.00	.39	28391.447	0.0	42145.054	0.0
727.1200	26.00	-4.98	41130.620	1.0	54879.720	2.0
727.1284	25.00	-3.81	37420.240	5.5	51169.180	5.5
727.1311	24.00	-4.44	31364.330	3.0	45113.220	3.0
727.1385	29.01	-1.73	123016.630	3.0	136765.380	4.0
727.1448	15.00	-1.26	65373.470	.5	79122.100	1.5
727.1501	22.00	-2.79	11639.804	3.0	25388.334	4.0
727.1655	24.00	-4.87	27223.050	2.0	40971.290	2.0
727.1739	23.00	-2.32	20789.130	2.5	34537.210	1.5
727.1940	45.00	-1.61	16050.847	0.0	29802.336	0.0
727.1956	15.00	-2.78	66343.330	.5	80091.000	.5
727.2034	14.00	-1.32	49188.617	2.0	62936.140	3.0
727.2268	24.00	-4.75	35870.530	4.0	49617.610	5.0
727.2814	14.00	-2.49	49060.601	1.0	62806.650	0.0
727.2933	18.00	-1.32	93750.639	1.0	107496.463	1.0
727.3030	45.00	-2.01	16050.847	0.0	29800.275	0.0
727.3125	16.01	-1.44	114230.750	2.5	127976.210	1.5
727.3194	28.01	-4.67	121925.160	.5	135670.490	.5
727.3612	24.00	-2.54	37205.880	3.0	50950.420	3.0
727.3686	22.00	-1.35	18061.540	1.0	31805.940	2.0
727.3686	13.01	-3.21	124792.000	2.0	138536.400	3.0
727.4327	26.01	-2.82	65696.110	4.5	79439.300	3.5
727.4612	6.00	-3.86	73975.910	0.0	87718.560	1.0
727.4810	41.00	-1.62	15324.929	0.0	29070.992	0.0
727.4983	28.01	-3.24	101366.140	2.5	115108.090	2.5
727.5174	24.00	-1.20	40930.310	1.0	54671.900	1.0
727.5200	23.00	-3.97	19026.340	2.5	32767.680	1.5
727.5296	14.00	-.06	45293.629	2.0	59034.988	3.0
727.5460	21.00	-.48	31275.320	3.5	45016.370	3.5
727.5655	25.00	-2.36	37789.930	2.5	51530.610	3.5
727.6153	24.00	-1.02	40906.460	1.0	54646.200	0.0
727.6218	14.00	-3.10	48102.323	2.0	61841.940	2.0
727.6353	26.00	-1.58	37409.530	1.0	51148.892	2.0
727.6712	26.00	-4.43	31322.603	3.0	45061.287	3.0
727.6746	14.03	-1.39	322312.930	.5	336051.550	1.5
727.6873	25.01	-3.14	68417.340	2.0	82155.720	1.0
727.6960	73.00	-2.36	11130.738	0.0	24872.740	0.0
727.6974	23.00	-.96	28768.130	4.5	42506.320	4.5
727.7117	24.00	-4.47	35572.940	2.0	49310.860	3.0
727.7122	23.00	-8.94	11100.650	4.5	24838.560	3.5
727.7218	24.00	-3.22	46637.210	3.0	60374.940	2.0
727.7350	29.01	-2.35	123016.630	3.0	136754.110	2.0
727.7508	14.00	-4.12	49188.617	2.0	62925.800	1.0
727.7591	26.00	-3.42	36686.159	4.0	50423.185	4.0
727.7615	28.01	-4.48	121227.800	2.5	134964.780	1.5
727.7668	21.00	-1.37	31172.620	1.5	44909.500	2.5
727.7880	28.01	-2.00	120166.520	1.5	133903.000	1.5
727.7981	24.00	-3.44	35884.400	5.0	49620.690	4.0
727.8230	74.00	-2.45	15324.929	0.0	29064.533	0.0
727.8262	15.00	-2.62	66813.040	1.5	80548.800	2.5
727.8448	26.00	-1.77	40231.312	2.0	53966.720	2.0
727.8526	24.00	-4.51	31377.960	4.0	45113.220	3.0
727.8560	16.00	-3.64	63445.115	1.0	77180.310	2.0
727.8648	10.01	-4.84	303928.100	.5	317663.130	1.5
727.8972	28.01	-4.67	122144.990	2.5	135879.410	3.5
727.9035	25.01	.20	86961.000	1.0	100695.300	1.0
727.9157	27.00	-3.26	42811.440	3.5	56545.510	2.5
727.9226	24.00	-3.87	25177.390	4.0	38911.330	3.0
727.9247	24.01	-3.81	70584.640	2.5	84318.540	1.5
727.9250	62.00	-1.58	3064.986	0.0	16802.665	0.0
727.9337	25.01	-2.56	68417.340	2.0	82151.070	2.0
727.9459	24.00	-3.97	33113.270	4.0	46846.770	3.0
727.9459	29.01	-2.38	125247.800	2.0	138981.300	2.0
727.9634	26.01	-3.08	66612.740	1.5	80345.910	.5
727.9902	55.00	-1.65	14596.845	0.0	28333.294	0.0
727.9956	55.00	-.35	14596.845	0.0	28333.192	0.0
727.9996	37.00	-1.49	12578.950	0.0	26315.221	0.0
728.0009	14.00	-1.22	49188.617	2.0	62921.080	2.0
728.0053	24.00	-4.98	36895.730	3.0	50628.110	3.0
728.0101	24.00	-.49	41086.260	3.0	54818.550	2.0
728.0276	28.01	-4.91	120222.890	1.5	133954.850	.5
728.0300	56.00	.47	9215.000	0.0	22950.698	0.0
728.0456	18.01	-1.65	161089.310	.5	174820.930	.5
728.0466	25.01	.09	86961.000	1.0	100692.600	2.0
728.0567	9.02	.35	427545.310	1.5	441276.720	2.5
728.0781	22.00	-.62	27750.124	5.0	41481.130	5.0
728.0827	28.01	-4.73	121385.800	1.5	135116.720	2.5
728.0848	15.00	-2.09	66360.120	1.5	80091.000	.5
728.0864	8.01	-.64	234454.450	2.5	248185.300	2.5
728.0880	14.00	-3.31	49399.670	1.0	63130.490	1.0
728.1013	26.02	-4.52	192006.940	2.0	205737.510	2.0
728.1092	20.02	-4.48	325467.670	2.0	339198.090	1.0
728.1188	24.00	-4.97	27176.220	1.0	40906.460	1.0
728.1315	22.00	-1.44	17995.750	0.0	31725.750	1.0
728.1350	2.00	-.84	171135.000	0.0	184868.717	0.0
728.1470	62.01	-1.69	10888.765	0.0	24622.256	0.0
728.1530	42.00	-1.27	25729.749	0.0	39463.126	0.0
728.1530	63.00	-.05	21293.565	0.0	35026.962	0.0
728.1691	22.00	-3.22	25797.600	3.0	39526.690	2.0
728.1935	28.01	-3.62	116468.400	1.5	130197.230	1.5
728.2095	28.01	-3.66	115565.980	2.5	129294.510	2.5
728.2105	14.00	-2.50	50054.800	4.0	63783.310	4.0
728.2210	62.00	-.07	17099.394	0.0	30831.489	0.0
728.2339	26.01	-4.38	49101.090	.5	62829.160	.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
728.2339	25.02	-4.11	179152.090	3.5	192880.160	3.5
728.2340	57.01	-2.75	1935.780	0.0	15667.630	0.0
728.2365	15.00	-2.25	65787.380	3.5	79515.400	3.5
728.2382	26.00	-1.91	40404.492	1.0	54132.480	1.0
728.2498	28.01	-4.59	121925.160	.5	135652.930	1.5
728.2816	14.00	-1.04	50054.800	4.0	63781.970	5.0
728.2906	25.01	-2.44	68417.340	2.0	82144.340	3.0
728.3034	24.00	-3.42	39156.630	4.0	52885.390	5.0
728.3596	25.00	-1.65	37789.930	2.5	51515.630	2.5
728.3617	28.01	-3.14	102742.740	1.5	116468.400	1.5
728.3739	26.02	-4.63	192006.940	2.0	205732.370	3.0
728.3771	25.00	-.58	35689.980	1.5	49415.350	2.5
728.4228	18.01	-1.77	145668.800	1.5	159393.310	1.5
728.4381	23.00	-2.32	20812.990	1.5	34537.210	1.5
728.4408	26.01	-4.41	86767.870	2.5	100492.040	3.5
728.4436	16.00	-3.42	63456.192	2.0	77180.310	2.0
728.4663	14.00	-1.32	49399.670	1.0	63123.360	0.0
728.4690	40.00	-1.95	12421.258	0.0	26148.678	0.0
728.4842	26.00	-2.55	33412.706	3.0	47136.058	2.0
728.4900	90.00	-2.46	3629.588	0.0	17356.612	0.0
728.5238	26.00	-2.08	37157.546	2.0	50880.152	1.0
728.5268	23.00	-3.86	23353.090	3.5	37075.640	4.5
728.5290	60.01	-2.02	9598.245	0.0	23324.535	0.0
728.5437	18.00	-3.46	107289.747	2.0	121011.979	1.0
728.5602	27.00	-4.48	41225.760	4.5	54947.680	5.5
728.5656	26.02	-3.74	200325.560	4.0	214047.380	4.0
728.5719	22.00	-3.04	18192.577	6.0	31914.277	5.0
728.5800	74.00	-1.74	19519.120	0.0	33244.449	0.0
728.5970	14.00	-2.21	48102.323	2.0	61823.550	2.0
728.6138	6.00	-2.67	72610.720	2.0	86331.630	1.0
728.6273	22.00	-1.95	25493.722	2.0	39214.380	3.0
728.6346	26.01	-4.36	58631.650	4.5	72352.170	3.5
728.6360	73.00	-2.85	11695.340	0.0	25419.614	0.0
728.6537	23.00	-3.80	28313.680	.5	42033.840	1.5
728.6548	28.00	-1.68	30392.052	1.0	44112.192	1.0
728.6649	28.01	-1.88	100332.090	4.5	114052.040	3.5
728.6781	28.01	-3.50	106283.160	2.5	120002.860	3.5
728.6922	7.00	-1.87	96750.810	1.5	110470.244	2.5
728.6951	25.00	-4.83	37586.030	1.5	51305.410	2.5
728.6956	9.02	-3.67	418248.560	1.5	431967.930	.5
728.7031	23.00	-3.40	20767.570	3.5	34486.800	2.5
728.7073	25.00	-4.83	17282.000	3.5	31001.150	2.5
728.7275	26.01	-2.96	50157.610	4.5	63876.380	5.5
728.7424	14.00	-3.10	50054.800	4.0	63773.290	3.0
728.7621	18.01	-2.95	144709.910	.5	158426.030	.5
728.8560	60.01	-2.28	7420.492	0.0	21140.623	0.0
728.8710	10.01	-4.42	292546.700	.5	306262.770	1.5
728.8752	26.00	-1.23	34039.495	4.0	47755.485	3.0
728.8752	28.01	-4.07	116468.400	1.5	130184.390	2.5
728.8805	24.00	-1.67	40930.310	1.0	54646.200	0.0
728.8906	30.02	-2.24	220668.300	2.0	234384.000	3.0
728.8920	62.01	-1.67	12663.231	0.0	26382.685	0.0
728.9045	26.01	-3.79	31364.470	1.5	45079.910	2.5
728.9175	14.00	.47	45321.848	3.0	59037.043	4.0
728.9324	28.00	-.85	43258.792	4.0	56973.707	5.0
728.9612	22.00	-4.03	27480.047	3.0	41194.420	3.0
728.9650	15.00	-4.99	66834.500	1.5	80546.800	2.5
728.9725	22.00	-2.90	25926.820	4.0	39640.980	3.0
728.9958	14.03	-1.14	322337.830	1.5	336051.550	2.5
728.9958	14.03	-2.09	322337.830	1.5	336051.550	1.5
729.0102	28.01	-3.70	120189.550	.5	133903.000	1.5
729.0171	26.00	-3.70	40842.130	3.0	54555.450	4.0
729.0230	26.02	-3.98	186791.780	2.0	200504.990	3.0
729.0267	14.00	-.97	45321.848	3.0	59034.988	3.0
729.0687	24.00	-3.53	36552.130	3.0	50264.480	3.0
729.0864	28.00	-.83	43089.636	5.0	56801.654	5.0
729.0969	24.00	-3.08	35807.900	2.0	49519.720	3.0
729.0980	23.00	-4.65	19026.340	2.5	32738.140	1.5
729.1022	22.00	-2.42	14028.470	2.0	27740.190	2.0
729.1055	12.00	-2.13	43503.333	0.0	57214.992	1.0
729.1209	28.00	-2.28	45281.152	3.0	58992.520	2.0
729.1350	64.00	-2.60	161.315	0.0	13876.196	0.0
729.1596	23.02	.60	147169.340	3.5	160879.980	4.5
729.1660	17.00	-3.64	84132.262	2.5	97842.783	1.5
729.1744	22.00	-2.24	25438.898	2.0	39149.260	2.0
729.1745	24.00	-3.43	46783.060	4.0	60493.420	3.0
729.1825	24.00	-3.49	35862.820	4.0	49573.030	4.0
729.1873	25.00	-2.75	43595.500	2.5	57305.620	3.5
729.1900	23.00	-2.82	19078.150	3.5	32788.220	4.5
729.2720	75.00	-.80	28714.077	0.0	42426.362	0.0
729.2804	26.00	-4.64	36766.950	3.0	50475.320	4.0
729.2921	24.01	-3.47	74718.050	1.5	88426.200	.5
729.2937	14.00	-1.87	50054.800	4.0	63762.920	4.0
729.2985	9.02	-2.04	427459.370	.5	441167.400	.5
729.3036	26.00	-1.03	34328.733	3.0	48036.667	2.0
729.3080	39.00	-1.63	15566.901	0.0	29278.529	0.0
729.3320	14.00	-3.28	50054.800	4.0	63762.200	3.0
729.3528	23.00	-2.98	20830.200	.5	34537.210	1.5
729.3575	6.00	-2.22	72610.720	2.0	86317.640	2.0
729.3708	6.00	-4.77	75253.970	1.0	88960.640	0.0
729.3714	28.01	-4.68	120144.170	2.5	133850.830	3.5
729.3900	28.01	-2.56	122812.970	3.5	136519.280	4.5
729.3932	24.00	-1.76	37244.170	4.0	50950.420	3.0
729.3953	16.00	-3.27	63474.101	3.0	77180.310	2.0
729.4070	24.00	-3.06	35813.730	3.0	49519.720	3.0
729.4203	28.01	-4.16	115565.980	2.5	129271.720	3.5
729.4262	28.01	-4.23	116468.400	1.5	130174.030	1.5
729.5039	28.01	-4.06	120903.200	3.5	134607.370	4.5
729.5135	28.01	-3.69	122175.420	2.5	135879.410	3.5
729.5225	28.01	-3.65	120199.180	1.5	133903.000	1.5
729.5250	26.00	-4.97	37157.546	2.0	50861.320	2.0
729.5513	26.00	-3.47	40534.180	3.0	54237.460	4.0
729.5806	26.00	-3.91	40421.890	4.0	54124.620	4.0
729.5880	23.00	-1.70	28462.150	2.5	42164.740	3.5
729.6056	28.01	-3.71	115592.250	1.5	129294.510	2.5
729.6140	17.00	-1.75	84688.637	.5	98390.740	.5
729.6572	23.00	-2.59	28368.760	1.5	42070.050	2.5
729.6580	74.00	-1.79	19115.832	0.0	32820.883	0.0
729.6652	24.00	-4.05	35934.020	6.0	49635.160	6.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
729.6935	24.00	-.72	40971.290	2.0	54671.900	1.0
729.7520	28.01	-3.43	120203.490	2.5	133903.000	1.5
729.7560	63.00	-.27	21616.215	0.0	35319.425	0.0
729.7669	9.02	-3.27	427459.370	.5	441158.600	1.5
729.7685	28.00	-.90	45418.858	2.0	59118.060	2.0
729.7915	28.01	-4.74	122047.290	3.5	135746.060	3.5
729.8096	28.01	-2.53	121925.160	.5	135623.590	1.5
729.8117	18.01	-2.15	192556.840	2.5	206255.230	2.5
729.8186	24.00	-4.17	31048.000	7.0	44746.260	6.0
729.8772	23.02	-3.05	146983.380	2.5	160681.480	3.5
729.8490	14.00	-.96	49399.670	1.0	63097.360	1.0
729.8501	23.00	-2.02	20789.130	2.5	34486.800	2.5
729.8979	9.00	-1.83	104731.050	1.5	118427.823	1.5
729.9188	15.00	-1.57	67113.820	2.5	80810.200	1.5
729.9273	7.00	-1.75	96750.810	1.5	110447.032	1.5
729.9556	28.01	-2.33	120166.520	1.5	133862.210	1.5
729.9657	27.00	-4.41	20500.710	1.5	34196.210	1.5
729.9680	22.00	-2.68	11531.760	2.0	25227.217	3.0
729.9686	22.00	-.83	27498.975	3.0	41194.420	3.0
729.9806	14.00	-2.60	50189.389	2.0	63884.610	1.0
729.9918	22.01	-2.48	53121.480	.5	66816.490	1.5
730.0031	13.01	-1.26	135012.100	1.0	148706.900	0.0
730.0057	28.01	-3.46	121925.160	.5	135619.910	1.5
730.0484	26.00	-1.70	40231.312	2.0	53925.260	1.0
730.0586	26.00	-3.17	33412.706	3.0	47106.463	4.0
730.0595	21.00	-.65	31215.760	2.5	44909.500	2.5
730.0595	14.00	-2.18	49399.670	1.0	63093.410	2.0
730.0654	21.00	-2.22	17012.980	2.5	30706.610	1.5
730.0726	28.00	-2.01	35639.148	3.0	49332.643	4.0
730.1170	63.01	-1.01	10001.532	0.0	23697.967	0.0
730.1422	25.00	-.03	48021.430	5.5	61713.620	5.5
730.1443	28.01	-2.59	93390.060	2.5	107082.210	2.5
730.1507	25.02	-2.36	218373.000	1.5	232065.030	2.5
730.1944	28.01	-1.36	120166.520	1.5	133857.730	.5
730.2110	27.00	-2.64	23184.230	2.5	36875.130	1.5
730.2403	27.00	-4.82	33674.380	2.5	47364.730	1.5
730.2438	10.00	-3.80	158601.115	2.0	172291.400	1.0
730.2438	10.00	-2.98	158601.115	2.0	172291.400	2.0
730.2857	25.00	-.40	35725.850	2.5	49415.350	2.5
730.2974	28.01	-4.26	109148.050	4.5	122837.330	4.5
730.3020	22.00	-3.17	35035.147	2.0	48724.340	2.0
730.3161	24.00	-2.49	40982.970	2.0	54671.900	1.0
730.3209	10.01	-2.01	303974.290	1.5	317663.130	1.5
730.3260	22.00	-2.99	18141.229	5.0	31829.972	4.0
730.3268	18.01	-3.07	192556.840	2.5	206245.570	3.5
730.3271	26.00	-4.58	44285.436	2.0	57974.160	2.0
730.3285	28.00	-2.91	35639.148	3.0	49327.845	2.0
730.3321	24.00	-2.31	35884.400	5.0	49573.030	4.0
730.3486	22.01	-2.31	53128.170	1.5	66816.490	1.5
730.3700	25.01	-5.59	29869.110	2.0	43557.030	1.0
730.3858	26.00	-4.73	20641.110	4.0	34328.733	3.0
730.4110	26.02	-4.60	192006.940	2.0	205694.090	1.0
730.4324	24.00	-2.78	36577.730	4.0	50264.480	3.0
730.4617	8.02	-.24	356838.000	1.0	370524.200	2.0
730.4671	29.01	-2.89	134675.600	2.0	148361.700	1.0
730.4797	14.00	-2.19	49188.617	2.0	62874.480	2.0
730.4826	26.01	-4.79	58666.360	3.5	72352.170	3.5
730.4844	10.00	-2.17	152970.733	0.0	166656.508	1.0
730.4892	10.00	-3.80	158601.115	2.0	172286.800	2.0
730.4938	23.00	-8.07	14910.040	3.5	28595.640	3.5
730.5007	24.00	-2.42	41289.170	1.0	54974.640	2.0
730.5250	70.00	-1.40	24358.571	0.0	38047.356	0.0
730.5253	28.01	-3.13	113172.960	4.5	126857.970	5.5
730.5386	26.02	-3.29	200325.560	4.0	214010.320	5.0
730.5648	24.00	-1.79	37205.880	3.0	50890.150	2.0
730.5653	18.01	-1.32	190732.970	.5	204417.230	1.5
730.5770	28.01	-3.79	122270.050	3.5	135954.690	3.5
730.5888	22.00	-2.11	13981.750	1.0	27665.570	1.0
730.5952	8.02	-.34	356732.000	0.0	370415.700	1.0
730.6011	24.00	-2.70	35934.020	6.0	49617.610	5.0
730.6053	28.01	-4.46	121699.020	1.5	135382.530	1.5
730.6210	40.00	-1.53	12663.231	0.0	26350.218	0.0
730.6433	15.00	-1.65	66834.500	1.5	80517.300	2.5
730.6507	29.01	-1.08	121981.680	2.0	135664.340	1.0
730.6543	7.00	-2.78	96767.650	1.5	110470.244	2.5
730.6576	26.00	-1.78	33695.378	5.0	47377.909	4.0
730.6668	23.00	-2.22	17181.980	4.5	30864.340	5.5
730.7260	21.00	-3.55	17025.360	1.5	30706.610	1.5
730.7349	10.00	-2.82	158601.115	2.0	172282.200	3.0
730.7869	28.01	-3.14	120222.890	1.5	133903.000	1.5
730.7935	26.00	-1.38	33412.706	3.0	47092.693	3.0
730.8067	26.01	-3.25	31364.470	1.5	45044.210	1.5
730.8195	13.01	-.76	132819.700	3.0	146499.200	4.0
730.8211	28.01	-4.53	116468.400	1.5	130147.870	.5
730.8357	22.00	-3.41	12118.394	4.0	25797.600	3.0
730.8681	20.02	.25	327922.870	2.0	341601.460	2.0
730.8943	13.01	-2.19	132819.700	3.0	146497.800	3.0
730.9028	9.00	.41	123921.050	2.5	137598.990	3.5
730.9050	13.01	-1.29	132819.900	2.0	146497.800	3.0
730.9410	38.00	.10	20003.065	0.0	33684.060	0.0
730.9531	13.01	-3.36	132819.700	3.0	146496.700	2.0
730.9591	28.00	-2.18	43089.636	5.0	56766.523	4.0
730.9638	13.01	-1.82	132819.900	2.0	146496.700	2.0
730.9638	13.01	-1.09	132819.900	1.0	146496.700	2.0
730.9943	15.00	-3.37	68088.270	1.5	81764.500	1.5
730.9948	24.00	-4.80	31987.060	4.0	45663.280	5.0
730.9953	25.02	-3.64	195415.200	4.5	209091.410	5.5
731.0060	46.00	-.16	38634.952	0.0	52314.730	0.0
731.0194	26.01	-3.63	31368.450	.5	45044.210	1.5
731.0241	22.00	-4.40	15220.390	5.0	28896.062	5.0
731.0311	24.00	-2.92	36577.730	4.0	50253.270	5.0
731.0362	17.00	-2.07	84132.262	2.5	97807.707	2.5
731.0460	63.00	-.03	21454.900	0.0	35133.930	0.0
731.0472	24.00	-2.96	35862.820	4.0	49538.060	5.0
731.0562	26.00	-2.73	44027.518	4.0	57697.590	4.0
731.0734	28.01	-2.82	105981.500	4.5	119656.250	3.5
731.0759	28.00	-2.17	35639.148	3.0	49313.851	3.0
731.0809	9.02	.55	427731.850	2.5	441406.460	3.5
731.1019	9.00	-.21	104731.050	1.5	118405.267	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
731.1065	26.00	-1.07	34547.192	2.0	48221.323	1.0
731.1140	28.01	-4.93	122175.420	2.5	135849.410	2.5
731.1220	28.01	-2.47	121925.160	.5	135599.000	.5
731.1236	23.00	-1.41	20812.990	1.5	34486.800	2.5
731.1238	26.00	-2.14	34362.860	1.0	48036.667	2.0
731.1359	28.01	-4.18	109148.050	4.5	122821.630	5.5
731.1472	24.01	-2.47	38269.670	3.5	51943.040	4.5
731.1558	20.02	-3.01	360207.160	2.0	373880.370	3.0
731.1620	40.00	-1.43	12663.231	0.0	26340.091	0.0
731.1714	18.00	-1.45	106087.305	1.0	119760.220	1.0
731.1767	17.00	-1.84	85735.091	1.5	99407.907	.5
731.1808	28.01	-4.92	120250.170	3.5	133922.910	4.5
731.1931	23.00	-3.25	23353.090	3.5	37025.600	3.5
731.2019	26.00	-2.45	40594.413	4.0	54266.760	5.0
731.2161	15.00	-1.94	65450.020	1.5	79122.100	1.5
731.2273	14.01	-2.21	113760.410	3.5	127432.280	3.5
731.2273	14.01	-.67	113760.410	3.5	127432.280	4.5
731.2364	14.01	-.78	113760.580	2.5	127432.280	3.5
731.2841	27.00	-4.80	41225.760	4.5	54896.570	3.5
731.2916	28.01	-4.79	94067.140	1.5	107737.610	1.5
731.3100	70.00	-1.27	24600.544	0.0	38274.636	0.0
731.3280	64.00	-2.25	967.890	0.0	14641.645	0.0
731.3630	63.00	-.76	15163.614	0.0	28836.715	0.0
731.3651	22.00	-3.66	27418.015	2.0	41087.310	3.0
731.3720	40.00	-1.33	12259.943	0.0	25932.876	0.0
731.3734	24.00	-4.35	35807.900	2.0	49477.040	1.0
731.3734	24.00	-3.29	35807.900	2.0	49477.040	2.0
731.3788	9.00	-.89	123921.050	2.5	137590.090	2.5
731.4012	23.00	-2.83	19023.470	4.5	32692.090	3.5
731.4156	22.00	-3.06	25438.898	2.0	39107.250	1.0
731.4184	28.01	-1.65	104646.520	3.5	118314.820	2.5
731.4302	9.00	.25	123922.010	1.5	137590.090	2.5
731.4450	26.00	-3.36	34636.820	2.0	48304.623	2.0
731.4585	28.01	-4.56	121115.590	1.5	134783.140	2.5
731.4596	24.00	-4.03	35870.530	4.0	49536.060	5.0
731.4681	27.00	-1.85	23207.760	1.5	36875.130	1.5
731.4727	10.00	-3.21	158601.115	2.0	172268.400	1.0
731.4901	25.00	-3.96	51638.170	2.5	65305.130	3.5
731.5378	15.00	-4.99	66343.330	.5	80009.400	.5
731.5479	28.01	-4.03	122080.250	2.5	135746.130	1.5
731.5516	28.01	-2.95	122080.250	2.5	135746.060	3.5
731.5532	22.00	-1.33	17540.205	3.0	31205.985	3.0
731.5548	23.00	-2.87	19026.340	2.5	32692.090	3.5
731.5555	26.00	-2.63	34555.586	0.0	48221.323	1.0
731.5650	21.00	-1.37	31350.810	4.5	45016.370	3.5
731.5698	27.00	-3.58	16778.160	2.5	30443.630	1.5
731.5789	29.01	-2.98	137077.600	3.0	150742.900	3.0
731.5816	18.00	-1.75	111818.090	1.0	125483.340	2.0
731.5907	23.00	-3.78	28368.760	1.5	42033.840	1.5
731.6007	18.00	-1.56	107496.463	1.0	121161.356	1.0
731.6110	13.01	-1.62	135009.000	0.0	148673.700	1.0
731.6266	23.00	-2.54	20812.990	1.5	34477.400	.5
731.6373	22.00	-1.43	18061.540	1.0	31725.750	1.0
731.6539	13.01	-2.31	133679.300	3.0	147343.200	2.0
731.6571	28.01	-2.12	106133.140	1.5	119796.980	2.5
731.6778	26.00	-3.61	21715.735	5.0	35379.189	5.0
731.6855	24.00	-3.59	35813.730	3.0	49477.040	2.0
731.6940	9.00	-3.15	119081.820	.5	132744.970	1.5
731.6967	26.02	-4.97	200384.280	3.0	214047.380	4.0
731.7030	41.00	-.53	24761.859	0.0	38428.606	0.0
731.7165	16.01	-1.72	114162.200	.5	127824.930	.5
731.7278	28.01	-3.48	100389.520	2.5	114052.040	3.5
731.7380	26.00	-2.51	40404.492	1.0	54066.821	2.0
731.7492	28.01	-3.40	94705.930	3.5	108368.050	2.5
731.7585	26.00	-4.16	38175.332	3.0	51837.279	3.0
731.7631	26.02	.98	193611.370	4.0	207273.230	5.0
731.7669	25.01	-3.06	68496.370	1.0	82158.160	0.0
731.7771	13.01	-1.62	135012.100	1.0	148673.700	1.0
731.8033	27.00	-4.16	40621.620	1.5	54282.730	2.5
731.8055	28.01	-4.97	120268.810	3.5	133929.880	3.5
731.8060	22.00	-4.38	22404.690	3.0	36065.750	3.0
731.8080	40.00	-.87	12663.231	0.0	26328.017	0.0
731.8264	15.00	-3.45	66544.120	2.5	80204.800	1.5
731.8339	22.00	-.77	18145.400	2.0	31805.940	2.0
731.8515	28.01	-1.60	105439.850	1.5	119100.060	1.5
731.8735	24.00	-3.49	33060.740	3.0	46720.540	4.0
731.8848	6.00	-4.25	75253.970	1.0	88913.560	2.0
731.8959	7.00	-2.75	96787.650	1.5	110447.032	1.5
731.8976	25.01	-2.72	68496.370	1.0	82155.720	1.0
731.9233	24.00	-3.39	35807.900	2.0	49466.770	2.0
731.9303	24.00	-3.57	36552.130	3.0	50210.670	4.0
731.9322	9.00	-3.43	118936.797	1.5	132595.500	2.5
731.9343	22.00	-2.37	25643.695	3.0	39302.360	4.0
731.9544	6.00	-3.92	75255.270	2.0	88913.560	2.0
731.9753	13.01	-2.54	133914.100	2.0	147572.000	1.0
731.9840	26.00	-4.41	31937.308	1.0	45595.046	0.0
731.9840	73.00	-2.74	9598.245	0.0	23259.746	0.0
731.9989	23.00	-3.89	19189.280	1.5	32846.740	2.5
732.0050	72.00	-2.39	4516.821	0.0	18177.930	0.0
732.0085	26.02	.81	193610.920	3.0	207268.200	4.0
732.0096	26.02	.38	193599.740	1.0	207257.000	2.0
732.0128	26.02	.08	193595.300	0.0	207252.500	1.0
732.0209	26.02	-4.95	199906.030	6.0	213563.080	5.0
732.0230	26.02	.62	193605.990	2.0	207263.000	3.0
732.0289	24.00	-2.35	35862.820	4.0	49519.720	3.0
732.0327	26.02	.11	193611.370	4.0	207268.200	4.0
732.0530	24.00	-4.65	24940.610	2.0	38597.060	1.0
732.0646	26.00	-1.08	36766.950	3.0	50423.185	4.0
732.0648	26.01	-3.46	31387.980	2.5	45044.210	1.5
732.0798	26.00	-1.77	39625.784	4.0	53281.735	5.0
732.0910	57.00	-2.62	1048.548	0.0	14706.052	0.0
732.0959	28.01	-1.36	92325.850	3.5	105981.500	4.5
732.1013	26.01	-2.94	66522.320	2.5	80177.870	1.5
732.1019	22.00	-2.98	25493.722	2.0	39149.260	2.0
732.1105	22.00	-3.41	31829.972	4.0	45465.350	5.0
732.1168	19.00	-2.24	21026.580	.5	34681.840	1.5
732.1168	19.00	-2.54	21026.580	.5	34681.840	.5
732.1415	23.00	-2.13	17116.920	3.5	30771.720	4.5
732.1415	13.01	-.92	135018.900	2.0	148673.700	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUF	JUP
732.1464	26.00	-3.98	33765.291	2.0	47420.000	2.0
732.1469	25.01	-2.89	68496.370	1.0	82151.070	2.0
732.1760	72.00	-2.92	5565.369	0.0	19223.287	0.0
732.1807	16.01	-4.87	172816.210	.5	186470.280	1.5
732.1828	9.02	-3.10	427731.850	2.5	441385.680	1.5
732.2026	24.00	-4.54	35884.400	5.0	49538.060	5.0
732.2111	26.00	-4.90	44243.668	5.0	57897.170	5.0
732.2129	28.00	-4.67	42621.048	3.0	56274.516	2.0
732.2176	28.01	-4.46	121325.090	2.5	134978.470	2.5
732.2234	28.00	-3.24	43933.428	2.0	57586.700	2.0
732.2250	42.00	-1.16	26213.694	0.0	39870.698	0.0
732.2327	28.00	-1.66	44314.980	4.0	57968.080	3.0
732.2402	18.00	-3.66	112138.980	2.0	125791.940	2.0
732.2509	26.02	.08	193599.740	1.0	207252.500	1.0
732.2664	28.01	-4.37	120270.440	5.5	133922.910	4.5
732.2702	29.01	-2.31	125230.600	3.0	138883.000	4.0
732.2720	73.00	-2.33	15002.299	0.0	28658.427	0.0
732.2874	26.02	.26	193610.920	3.0	207263.000	3.0
732.2890	26.02	-4.44	200395.330	5.0	214047.380	4.0
732.2906	23.00	-2.59	28462.150	2.5	42114.170	3.5
732.3115	26.02	-1.06	193611.370	4.0	207263.000	3.0
732.3190	24.00	-4.16	44050.870	4.0	57702.360	5.0
732.3195	22.01	-3.29	20891.880	3.5	34543.360	3.5
732.3238	23.00	-3.50	18805.050	.5	32456.450	1.5
732.3238	38.01	-1.04	60991.700	0.0	74646.862	0.0
732.3238	38.01	-2.34	60991.700	0.0	74646.862	0.0
732.3448	26.02	.24	193605.990	2.0	207257.000	2.0
732.3560	44.00	-1.81	16131.504	0.0	29786.065	0.0
732.3651	29.01	-3.31	125247.800	2.0	138898.430	1.0
732.3696	7.00	-3.58	96750.810	1.5	110401.356	2.5
732.3753	21.00	-.76	31172.620	1.5	44823.060	1.5
732.3761	22.00	-2.10	17540.205	3.0	31190.631	2.0
732.3920	41.00	-1.64	14760.326	0.0	28414.216	0.0
732.4376	15.00	-3.77	66360.120	1.5	80009.400	.5
732.4419	15.00	-1.27	64239.500	.5	77888.700	1.5
732.4424	24.00	-2.27	35870.530	4.0	49519.720	3.0
732.4553	26.00	-4.81	40842.130	3.0	54491.080	3.0
732.4794	17.01	-2.44	159574.200	2.0	173222.700	3.0
732.4988	24.00	-3.18	33040.100	2.0	46688.240	3.0
732.5208	26.00	-3.04	44166.240	3.0	57813.970	3.0
732.5251	28.01	-.89	104646.520	3.5	118294.170	3.5
732.5358	23.00	-4.59	15770.720	4.5	29418.170	3.5
732.5385	28.01	-1.72	116833.150	4.5	130480.550	3.5
732.5492	23.00	-2.63	20830.700	.5	34477.400	.5
732.5600	10.03	-.25	634413.000	2.5	648060.000	1.5
732.5648	28.01	-.58	119796.980	2.5	133443.890	2.5
732.5653	13.01	-2.40	121365.200	0.0	135012.100	1.0
732.5782	28.01	-1.13	105668.780	2.5	119315.440	2.5
732.5863	26.02	-.76	193605.990	2.0	207252.500	1.0
732.5954	23.00	-7.01	14949.300	4.5	28595.640	3.5
732.5998	26.00	-4.55	36940.600	2.0	50586.857	3.0
732.6002	29.01	-.04	108335.430	2.0	121981.680	2.0
732.6093	26.02	-.76	193610.920	3.0	207257.000	2.0
732.6146	20.00	.40	23652.304	1.0	37298.287	2.0
732.6163	22.01	-2.50	53121.480	.5	66767.430	.5
732.6469	25.00	-.28	35769.970	3.5	49415.350	2.5
732.6770	18.00	-2.98	112138.980	2.0	125783.800	1.0
732.6859	7.00	-2.78	96750.810	1.5	110395.463	1.5
732.7070	64.00	-.14	20003.065	0.0	33651.085	0.0
732.7441	9.02	.46	426558.910	1.5	440202.480	2.5
732.7470	13.00	-2.06	32949.804	.5	46593.320	1.5
732.7651	28.00	-1.20	30619.440	2.0	44262.619	2.0
732.7699	23.00	-2.98	19145.130	5.5	32788.220	4.5
732.7720	28.01	-4.39	101357.200	4.5	115000.250	3.5
732.8280	90.00	-2.03	7178.519	0.0	20824.286	0.0
732.8306	24.01	-4.03	70852.240	3.5	84494.200	2.5
732.8353	28.00	-3.43	42621.048	3.0	56262.920	3.0
732.8380	41.00	-1.71	12179.286	0.0	25824.667	0.0
732.8392	28.01	-4.16	120281.110	4.5	133922.910	4.5
732.8704	26.00	-2.39	40491.260	0.0	54132.480	1.0
732.8961	25.01	-3.92	89062.600	5.0	102703.340	4.0
732.9074	25.02	-2.80	195682.500	5.5	209323.030	6.5
732.9246	24.00	-2.37	35813.730	3.0	49453.940	4.0
732.9451	14.00	-2.18	49850.830	2.0	63490.660	3.0
732.9558	23.00	-3.31	20789.130	2.5	34428.760	1.5
732.9644	23.00	-2.27	17054.870	2.5	30694.340	3.5
732.9709	20.02	-2.12	327962.110	1.0	341601.460	2.0
732.9757	22.01	-2.59	53128.170	1.5	66767.430	.5
732.9768	9.02	.30	453343.620	2.5	466982.860	2.5
732.9814	17.00	-1.72	83364.927	.5	97004.081	1.5
732.9961	15.00	-2.10	66544.120	2.5	80183.000	2.5
732.9988	28.01	-3.48	120316.020	.5	133954.850	.5
733.0000	7.04	.56	732993.000	0.0	746635.565	0.0
733.0106	14.00	-2.27	49850.830	2.0	63489.440	2.0
733.0176	9.02	.24	426431.030	.5	440069.510	1.5
733.0230	26.00	-4.29	36975.640	3.0	50614.020	4.0
733.0261	18.00	-4.69	112138.980	2.0	125777.300	1.0
733.0300	24.00	-3.07	33040.100	2.0	46678.350	1.0
733.0457	14.00	-1.74	49028.294	0.0	62666.250	1.0
733.0536	25.01	-2.96	29919.220	2.0	43557.030	1.0
733.0568	28.01	-1.75	116833.150	4.5	130470.900	4.5
733.0568	9.02	-4.30	444957.110	1.5	458594.660	2.5
733.0874	14.00	-1.17	49850.830	2.0	63488.010	3.0
733.0902	27.00	-4.44	40621.620	1.5	54258.750	2.5
733.0918	22.00	-1.64	14028.470	2.0	27665.570	1.0
733.0993	24.00	-4.90	33040.100	2.0	46677.060	2.0
733.1100	23.00	-1.40	28768.130	4.5	42404.890	3.5
733.1278	26.01	-4.98	72043.210	1.5	85679.640	2.5
733.1305	28.01	-4.90	116145.690	3.5	129782.070	3.5
733.1418	28.01	-3.60	120903.200	3.5	134539.370	2.5
733.1450	23.00	-3.84	23353.090	3.5	36989.200	2.5
733.1459	17.00	-1.91	83894.037	3.5	97530.130	2.5
733.1686	29.01	-1.20	120092.200	2.0	133727.870	2.0
733.1954	9.00	-.17	102405.710	2.5	116040.883	1.5
733.1955	27.00	-3.11	41225.760	4.5	54860.930	4.5
733.2055	7.00	-2.71	96750.810	1.5	110385.795	.5
733.2262	28.01	-1.63	118294.170	3.5	131928.770	4.5
733.2300	9.02	-.84	453343.620	2.5	466978.150	1.5
733.2310	22.00	-1.65	14105.680	3.0	27740.190	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUF	JUP
733.2380	24.00	-3.56	49027.580	2.0	62661.960	3.0
733.2488	21.00	-1.25	31275.320	3.5	44909.500	2.5
733.2628	23.00	-4.45	19026.340	2.5	32660.260	2.5
733.2633	24.00	-1.33	41575.100	3.0	55209.010	4.0
733.2650	62.00	-1.46	3952.218	0.0	17569.852	0.0
733.2960	39.01	-2.68	13792.436	0.0	27429.494	0.0
733.3020	28.01	-3.47	122112.940	.5	135746.130	1.5
733.3429	28.00	-3.99	35639.148	3.0	49271.578	3.0
733.3467	27.00	-4.76	16470.600	1.5	30102.960	2.5
733.3531	26.00	-1.82	34328.733	3.0	47960.973	4.0
733.3671	28.00	-1.63	44336.100	4.0	57968.080	3.0
733.3676	24.00	-2.44	36552.130	3.0	50184.100	2.0
733.3710	42.00	-1.17	26052.379	0.0	39666.042	0.0
733.3940	26.02	-3.70	186882.980	3.0	200514.460	4.0
733.4180	57.00	-1.87	0.000	0.0	13634.789	0.0
733.4182	28.01	-3.19	120271.970	2.5	133903.000	1.5
733.4252	23.00	-4.77	15571.900	2.5	29202.800	1.5
733.4541	26.00	-2.85	44183.607	2.0	57813.970	3.0
733.4640	26.01	-3.06	58631.650	4.5	72261.830	5.5
733.4903	24.00	-2.27	41575.100	3.0	55204.790	3.0
733.4952	38.01	-1.10	60991.700	0.0	74625.054	0.0
733.5648	13.00	-1.80	32965.643	1.5	46593.950	2.5
733.5970	40.00	-2.17	4113.534	0.0	17744.997	0.0
733.5987	13.00	-2.75	32965.643	1.5	46593.320	1.5
733.6082	24.00	-3.09	33060.740	3.0	46686.240	3.0
733.6180	63.00	-.03	15808.874	0.0	29439.946	0.0
733.6486	25.02	-4.64	178386.000	.5	192012.750	1.5
733.6513	23.02	.61	147400.620	4.5	161027.320	4.5
733.6588	28.01	-3.86	106283.160	2.5	119909.720	1.5
733.6771	9.02	.64	426733.040	2.5	440359.260	3.5
733.7132	24.00	-3.25	36558.550	2.0	50184.100	2.0
733.7461	20.02	-.83	359800.570	3.0	373425.510	4.0
733.7621	14.00	-2.58	49188.617	2.0	62813.260	1.0
733.7708	16.01	-1.19	114200.450	1.5	127824.930	.5
733.7773	22.00	-1.53	18061.540	1.0	31685.900	0.0
733.7789	24.00	-4.26	25106.340	3.0	38730.670	2.0
733.7945	28.01	-3.66	120903.200	3.5	134527.240	3.5
733.8053	26.00	-4.13	40207.120	3.0	53830.960	3.0
733.8354	6.00	-3.75	60352.630	1.0	73975.910	0.0
733.8403	28.01	-4.42	101246.160	.5	114869.350	1.5
733.8888	23.00	-.95	17242.050	5.5	30864.340	5.5
733.8995	9.02	-2.79	427545.310	1.5	441167.400	.5
733.9039	26.02	-4.49	186882.980	3.0	200504.990	3.0
733.9055	28.01	-4.26	101247.370	2.5	114869.350	1.5
733.9400	26.02	-3.78	199884.390	5.0	213505.730	6.0
733.9694	28.00	-3.42	42653.723	2.0	56274.516	2.0
734.0133	6.00	-3.40	75253.970	1.0	88873.950	2.0
734.0349	17.00	-3.01	85735.091	1.5	99354.670	1.5
734.0440	28.01	-4.64	121050.660	2.5	134670.070	1.5
734.0650	24.00	-3.63	49027.580	2.0	62646.600	2.0
734.0803	22.00	-1.81	27750.124	5.0	41368.860	4.0
734.0834	6.00	-2.85	75255.270	2.0	88873.950	2.0
734.0903	24.00	-4.39	31048.000	7.0	44666.550	8.0
734.1092	28.00	-2.93	42656.317	1.0	56274.516	2.0
734.1286	27.00	-4.99	40827.770	1.5	54445.610	2.5
734.1453	28.01	-4.79	54262.630	3.5	67880.160	2.5
734.1475	25.01	-3.70	89062.600	5.0	102680.090	5.0
734.1577	10.01	-4.12	303279.910	2.5	316897.210	3.5
734.1685	25.02	-3.47	195415.200	4.5	209032.300	5.5
734.1739	26.00	-4.25	40257.300	5.0	53874.300	5.0
734.1900	9.02	-.41	457715.100	2.5	471331.800	2.5
734.2018	17.00	-2.89	85917.937	.5	99534.419	.5
734.2106	24.00	-2.88	33060.740	3.0	46677.060	2.0
734.2170	19.00	-2.34	21026.580	.5	34642.780	1.5
734.2170	19.00	-2.64	21026.580	.5	34642.780	.5
734.2402	23.00	-2.12	20812.990	1.5	34428.760	1.5
734.2607	25.01	-5.62	29869.110	2.0	43484.500	2.0
734.2801	17.00	-1.82	84485.309	1.5	98100.340	.5
734.2823	26.02	-4.55	200395.330	5.0	214010.320	5.0
734.3022	15.00	-2.70	65787.380	3.5	79402.000	2.5
734.3038	25.02	-4.24	178558.300	1.5	192172.890	2.5
734.3226	14.00	-2.22	49188.617	2.0	62802.860	3.0
734.3389	23.00	-4.98	19078.150	3.5	32692.090	3.5
734.3515	7.00	-2.46	96787.650	1.5	110401.356	2.5
734.3611	22.00	-4.71	25493.722	2.0	39107.250	1.0
734.3740	9.02	-2.07	427545.310	1.5	441158.600	1.5
734.3810	15.00	-3.90	66813.040	1.5	80426.200	1.5
734.3848	9.02	-.95	453369.770	1.5	466982.860	2.5
734.3945	10.01	-1.61	280473.580	1.5	294086.490	1.5
734.3960	40.00	-.88	14679.669	0.0	28296.301	0.0
734.4031	28.01	-2.13	119833.000	5.5	133445.750	4.5
734.4179	26.00	-4.01	21999.132	4.0	35611.608	3.0
734.4444	22.00	-2.38	25537.276	1.0	39149.260	2.0
734.4544	23.01	-8.88	20980.920	2.0	34592.720	2.0
734.4690	22.00	-1.51	11776.806	4.0	25386.334	4.0
734.4759	28.02	-3.59	121412.200	2.0	135023.600	3.0
734.4792	28.01	-3.20	101258.010	1.5	114869.350	1.5
734.4858	26.00	-3.00	36975.640	3.0	50586.857	3.0
734.5217	14.00	-2.61	47351.554	2.0	60962.105	2.0
734.5340	57.00	-.83	7985.094	0.0	21599.168	0.0
734.5860	28.01	-3.71	122270.050	3.5	135879.410	3.5
734.5948	28.00	-2.55	42653.723	2.0	56262.920	3.0
734.6157	25.01	-3.94	89096.560	4.0	102705.370	3.0
734.6217	25.00	-3.42	55107.520	3.5	68716.220	4.5
734.6250	63.00	-.53	21293.585	0.0	34905.972	0.0
734.6389	9.02	.12	453369.770	1.5	466976.150	1.5
734.6410	73.00	-2.28	5968.656	0.0	19580.747	0.0
734.6460	39.00	-.82	16131.504	0.0	29743.502	0.0
734.6595	25.02	-4.88	124754.800	3.5	138362.800	3.5
734.6649	27.00	-3.70	27497.060	2.5	41104.960	2.5
734.6649	23.00	-4.55	28462.150	2.5	42070.050	2.5
734.6695	7.00	-2.39	96787.650	1.5	110395.463	1.5
734.6972	21.00	-1.38	31215.760	2.5	44823.060	1.5
734.6989	24.00	-3.01	33113.270	4.0	46720.540	4.0
734.6992	22.00	-3.93	27480.047	3.0	41087.310	3.0
734.6994	25.02	-4.15	195682.500	5.5	209289.760	6.5
734.7005	23.00	-2.17	20767.570	3.5	34374.810	3.5
734.7158	26.00	-4.35	22249.430	3.0	35856.386	2.0
734.7253	25.01	-3.68	89096.560	4.0	102703.340	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
734.7300	62.00	.56	17986.627	0.0	31597.069	0.0
734.7340	8.01	-.87	234402.480	1.5	248009.100	1.5
734.7554	7.00	-2.09	96864.020	2.5	110470.244	2.5
734.7675	10.03	-4.14	511411.000	2.5	525017.000	2.5
734.7723	25.01	-3.46	29951.120	1.0	43557.030	1.0
734.7864	14.00	-2.48	49060.601	1.0	62666.250	1.0
734.8026	28.01	-3.03	122140.710	4.5	135746.060	3.5
734.8047	18.01	-1.39	158730.210	2.5	172335.520	2.5
734.8490	42.00	-1.66	20245.038	0.0	33853.276	0.0
734.8504	26.00	-1.82	33412.706	3.0	47017.170	3.0
734.8588	28.00	-2.12	44206.185	3.0	57810.494	4.0
734.8733	24.00	-1.30	35934.020	6.0	49538.060	5.0
734.8863	30.02	-3.96	220006.600	1.0	233610.400	2.0
734.9625	26.01	-4.46	79885.320	2.5	93487.710	3.5
734.9651	10.01	-3.25	290371.950	2.5	303974.290	1.5
734.9711	27.00	-4.93	41918.410	3.5	55520.640	3.5
734.9829	26.00	-3.70	34636.820	2.0	48238.832	2.0
735.0213	70.02	-2.59	359800.570	3.0	373401.870	3.0
735.0804	18.00	-1.83	107496.463	1.0	121096.670	0.0
735.1078	26.02	-4.47	199906.030	6.0	213505.730	6.0
735.1106	26.00	-2.44	40231.312	2.0	53830.960	3.0
735.1111	28.01	-1.84	98822.550	6.5	112422.190	5.5
735.1311	28.01	-3.17	116732.510	2.5	130331.780	1.5
735.1347	7.00	-1.99	96750.810	1.5	110350.014	.5
735.1380	28.00	-.73	43258.792	4.0	56857.933	4.0
735.1516	26.00	-1.45	39969.830	3.0	53568.720	2.0
735.1527	27.00	-1.62	40827.770	1.5	54426.640	1.5
735.1695	23.00	-1.65	20830.200	.5	34428.760	1.5
735.1919	7.00	-3.89	96787.650	1.5	110385.795	.5
735.2164	22.00	-1.20	20062.980	1.0	33660.671	1.0
735.2860	73.00	-1.90	9678.902	0.0	23279.052	0.0
735.3160	41.00	-1.86	8307.725	0.0	21907.320	0.0
735.3182	18.00	-2.16	106087.305	1.0	119683.113	2.0
735.3219	26.00	-4.12	44378.420	1.0	57974.160	2.0
735.3285	26.00	-4.63	17726.985	2.0	31322.603	3.0
735.3287	18.00	-1.57	105617.315	2.0	119212.930	3.0
735.3355	23.00	-1.64	28768.130	4.5	42363.620	3.5
735.3447	27.00	-2.35	33150.680	1.5	46746.000	2.5
735.3487	26.00	-2.40	38175.332	3.0	51770.577	3.0
735.3517	25.01	-3.01	29889.310	3.0	43484.500	2.0
735.3998	15.00	-.90	64239.500	.5	77833.800	1.5
735.4453	27.00	-2.93	32781.710	2.5	46375.170	1.5
735.4572	23.02	.49	146983.380	2.5	160576.620	3.5
735.4572	28.01	-2.20	122047.290	3.5	135640.530	4.5
735.4577	27.00	-3.35	15184.040	2.5	28777.270	3.5
735.4844	28.00	-3.44	29013.228	2.0	42605.964	3.0
735.4945	9.02	.78	426989.570	3.5	440582.120	4.5
735.5189	18.01	-1.36	192556.840	2.5	206148.940	3.5
735.5211	9.02	-4.09	467769.110	.5	481361.170	1.5
735.5400	24.00	-2.15	33113.270	4.0	46704.980	5.0
735.5405	15.00	-2.57	66834.500	1.5	80426.200	1.5
735.5465	22.01	-1.93	20951.770	2.5	34543.360	3.5
735.5551	28.01	-4.93	121050.660	2.5	134642.090	3.5
735.5558	28.00	-1.84	45281.152	3.0	58872.570	4.0
735.5595	18.02	-2.40	211563.830	1.0	225155.180	1.0
735.5719	24.00	-4.14	35862.820	4.0	49453.940	4.0
735.5724	29.01	-3.17	122745.770	2.0	136336.880	1.0
735.5930	27.00	-1.29	40345.950	2.5	53936.680	2.5
735.5935	24.00	-.11	23305.010	2.0	36895.730	3.0
735.6000	28.01	-4.86	116191.470	2.5	129782.070	3.5
735.6100	72.00	-1.19	23310.023	0.0	36904.183	0.0
735.6174	23.01	-4.77	26839.820	3.0	40430.100	4.0
735.6466	23.00	-1.09	17181.980	4.5	30771.720	4.5
735.6650	63.00	-.53	21293.585	0.0	34886.729	0.0
735.6960	73.00	-2.49	5968.656	0.0	19561.227	0.0
735.6987	22.00	-3.60	8492.421	1.0	22081.198	2.0
735.7012	9.02	-3.25	445006.130	2.5	458594.860	2.5
735.7099	29.01	-3.68	125230.600	3.0	138819.170	3.0
735.7227	22.00	-3.41	27498.975	3.0	41087.310	3.0
735.7726	22.00	-1.60	11639.804	3.0	25227.217	3.0
735.7960	28.01	-2.86	120316.020	.5	133903.000	1.5
735.8334	18.01	-3.41	147503.020	1.5	161089.310	.5
735.8437	13.01	-1.21	133914.100	2.0	147500.200	3.0
735.8654	28.01	-4.89	122084.790	1.5	135670.490	.5
735.8664	23.00	-1.14	20789.130	2.5	34374.810	3.5
735.9033	18.01	-4.82	170400.940	2.5	183985.940	1.5
735.9521	18.02	-2.45	211563.830	1.0	225147.930	2.0
735.9829	25.01	-4.53	89096.560	4.0	102680.090	5.0
735.9885	28.00	-1.99	44206.185	3.0	57789.611	4.0
735.9894	24.00	-4.50	35870.530	4.0	49453.940	4.0
735.9910	26.00	-2.39	40257.300	5.0	53840.680	6.0
735.9932	28.01	-3.49	122047.290	3.5	135630.630	2.5
736.0109	7.00	-3.21	96864.020	2.5	110447.032	1.5
736.0241	24.01	-4.70	53923.570	4.5	67506.340	5.5
736.0380	42.00	-1.38	25568.434	0.0	39154.689	0.0
736.0599	23.00	-4.00	19078.150	3.5	32660.260	2.5
736.0599	28.01	-2.72	122047.290	3.5	135629.400	3.5
736.0837	23.00	-2.49	28595.640	3.5	42177.310	4.5
736.1135	28.01	-2.89	122047.290	3.5	135628.410	4.5
736.1259	14.00	-4.03	50189.389	2.0	63770.280	1.0
736.1281	6.00	-4.14	75255.270	2.0	88836.120	3.0
736.1347	23.00	-1.34	17054.870	2.5	30635.600	2.5
736.1417	13.01	-2.83	125706.200	1.0	139286.800	2.0
736.1553	22.00	-1.48	18145.400	2.0	31725.750	1.0
736.1568	13.00	-.92	32435.435	1.5	46015.756	2.5
736.1650	42.01	-.80	27262.742	0.0	40846.153	0.0
736.1802	24.00	-2.75	41224.800	0.0	54804.690	1.0
736.1842	22.00	-4.92	33700.874	4.0	47280.690	5.0
736.1867	21.01	-5.17	14261.400	4.0	27841.170	4.0
736.1876	22.00	-1.82	27614.667	4.0	41194.420	3.0
736.1890	58.01	-1.60	12259.943	0.0	25843.411	0.0
736.2084	25.01	-3.64	89126.000	3.0	102705.370	3.0
736.2159	26.00	-5.77	12560.933	3.0	26140.164	3.0
736.2236	26.02	-3.55	200395.330	5.0	213974.420	6.0
736.2250	63.00	-.81	15163.614	0.0	28746.418	0.0
736.2296	13.00	-.77	32436.778	2.5	46015.756	3.5
736.2296	13.00	-2.07	32436.778	2.5	46015.756	2.5
736.2501	23.00	-1.24	19189.260	1.5	32767.880	1.5
736.2941	24.00	-1.17	41409.030	2.0	54986.620	3.0
WAVELENGTH	ELEM	LOCCF	ELO	JLO	EUP	JUP
736.2990	8.02	-.47	356838.000	1.0	370415.700	1.0
736.3018	14.00	-2.08	48264.292	3.0	61841.940	2.0
736.3141	23.00	-1.23	17116.920	3.5	30694.340	3.5
736.3185	25.01	-4.57	89126.000	3.0	102703.340	4.0
736.3591	24.00	-4.43	27816.880	5.0	41393.470	5.0
736.3792	28.01	-2.33	100475.820	3.5	114052.040	3.5
736.3883	26.00	-1.73	39969.830	3.0	53545.882	3.0
736.4097	22.00	-1.68	11531.760	2.0	25107.417	2.0
736.4260	14.00	-2.27	48020.074	1.0	61595.430	1.0
736.4286	28.01	-2.91	122047.290	3.5	135622.600	3.5
736.4324	25.02	-4.21	178816.960	2.5	192392.200	3.5
736.4389	23.00	-4.31	26021.890	3.5	39597.010	4.5
736.4470	24.00	-4.40	33113.270	4.0	46688.240	3.0
736.4736	6.00	-2.24	72610.720	2.0	86185.200	2.0
736.5050	9.02	-3.86	467769.110	.5	481343.010	.5
736.5072	9.02	-2.80	431432.270	1.5	445006.130	2.5
736.5180	28.00	-1.57	45418.858	2.0	58992.520	2.0
736.5213	23.00	-6.75	9636.960	1.5	23210.560	2.5
736.5280	72.00	-2.14	15566.901	0.0	29144.117	0.0
736.5322	29.01	-3.19	125568.700	1.0	139142.100	2.0
736.5382	18.01	-1.62	191012.350	1.5	204585.640	2.5
736.5713	28.01	-4.65	122080.250	2.5	135652.930	1.5
736.5734	27.00	-1.10	33173.360	3.5	46746.000	2.5
736.5892	18.01	-1.72	190942.650	.5	204515.000	.5
736.5935	26.01	-4.58	58666.360	3.5	72238.630	2.5
736.6017	24.01	-4.81	74854.080	.5	88426.200	.5
736.6130	7.00	-2.61	96750.810	1.5	110322.721	1.5
736.6188	26.00	-4.91	31937.308	1.0	45509.112	1.0
736.6250	23.00	-4.69	28462.150	2.5	42033.840	1.5
736.6358	26.00	-2.02	37409.530	1.0	50981.020	0.0
736.6424	29.01	-4.48	125247.800	2.0	138819.170	3.0
736.6559	22.00	-5.30	11531.760	2.0	25102.880	2.0
736.6585	22.00	-3.11	31914.277	5.0	45485.350	5.0
736.6706	14.00	-3.60	50189.389	2.0	63760.240	3.0
736.6738	28.01	-4.05	122047.290	3.5	135618.080	2.5
736.6795	22.00	-3.34	25643.695	3.0	39214.380	3.0
736.6820	28.01	-4.27	122175.420	2.5	135746.060	3.5
736.6907	15.00	-2.05	66544.120	2.5	80114.600	1.5
736.6956	29.01	-3.67	131312.700	3.0	144883.090	2.0
736.6962	22.00	-4.73	35454.051	4.0	49024.430	3.0
736.7181	22.00	-3.20	25537.276	1.0	39107.250	1.0
736.7222	29.01	-2.58	137212.700	1.0	150782.600	2.0
736.7336	19.00	-2.44	21026.580	.5	34596.270	1.5
736.7336	19.00	-2.74	21026.580	.5	34596.270	.5
736.7384	28.01	-4.87	102742.740	1.5	116312.340	1.5
736.7417	24.00	-1.37	35884.400	5.0	49453.940	4.0
736.7656	23.00	-1.50	28595.640	3.5	42164.740	3.5
736.7656	8.02	-.94	365723.900	1.0	379293.000	2.0
736.7851	28.01	-2.01	120166.520	1.5	133735.260	2.5
736.8120	46.00	.35	35247.336	0.0	48819.319	0.0
736.8150	25.00	-4.88	37737.220	3.5	51305.410	2.5
736.8199	28.01	-4.09	121925.160	.5	135493.260	1.5
736.8242	26.00	-3.67	37046.000	4.0	50614.020	4.0
736.8883	14.02	-4.87	230301.660	4.0	243868.500	3.0
736.8922	26.00	-3.20	40594.413	4.0	54161.182	3.0
736.9073	14.02	-4.75	230302.010	4.0	243868.500	3.0
736.9090	73.00	-1.95	10888.765	0.0	24458.962	0.0
736.9274	8.01	-3.03	232462.830	2.5	246028.950	3.5
736.9551	24.00	-2.56	41409.030	2.0	54974.640	2.0
736.9600	63.00	-.03	15808.874	0.0	29378.131	0.0
736.9731	25.01	-3.35	29919.220	2.0	43484.500	2.0
736.9745	17.00	-1.82	83364.927	.5	96930.181	.5
736.9769	25.02	-1.43	219195.950	4.5	232761.160	5.5
736.9812	26.01	-3.32	66612.740	1.5	80177.870	1.5
737.0046	10.01	-3.69	280768.520	.5	294333.220	.5
737.0083	26.00	-2.89	38175.332	3.0	51739.964	2.0
737.0220	63.01	-.82	10566.135	0.0	24134.251	0.0
737.0693	18.01	-4.73	192556.840	2.5	206120.350	2.5
737.0957	26.00	-2.65	44411.137	1.0	57974.160	2.0
737.1078	24.00	-2.20	35807.900	2.0	49370.700	3.0
737.1099	28.00	-2.70	43258.792	4.0	56821.553	3.0
737.1143	10.00	-3.53	159534.620	1.0	173097.300	0.0
737.1262	28.00	-2.44	42621.048	3.0	56183.510	4.0
737.1315	7.00	-3.77	96787.650	1.5	110350.014	.5
737.1389	26.00	-2.89	40404.492	1.0	53966.720	2.0
737.1567	26.00	-4.10	40207.120	3.0	53769.020	4.0
737.1817	24.00	-3.68	39158.630	4.0	52720.070	4.0
737.1948	17.01	-2.23	146013.000	2.0	159574.200	2.0
737.1950	92.00	-1.88	5887.999	0.0	19452.931	0.0
737.2056	14.00	-3.86	50189.389	2.0	63750.390	1.0
737.2114	18.00	-1.19	105462.804	3.0	119023.699	4.0
737.2481	25.01	-4.92	87941.080	4.0	101501.300	3.0
737.2500	41.00	-1.02	11292.053	0.0	24855.973	0.0
737.2524	24.01	-4.91	55023.300	2.5	68583.440	2.5
737.2779	17.00	-1.66	84485.309	1.5	98044.960	1.5
737.2976	23.02	-1.43	147606.500	3.5	161165.810	2.5
737.2986	10.01	-4.29	292451.780	1.5	306011.070	.5
737.3004	14.00	-1.34	48264.292	3.0	61823.550	2.0
737.3052	25.02	-3.53	218705.250	2.5	232264.420	3.5
737.3078	26.00	-4.99	18378.187	2.0	31937.308	1.0
737.3226	11.00	-2.75	25739.991	.5	39298.840	1.5
737.3340	25.02	-2.71	218506.390	3.5	232065.030	2.5
737.3493	11.00	-3.05	25739.991	.5	39298.350	.5
737.3500	40.00	-1.56	12421.258	0.0	25983.338	0.0
737.3715	25.01	-4.89	87941.080	4.0	101499.030	4.0
737.3742	25.02	-4.97	124754.800	3.5	138312.700	4.5
737.3810	64.00	-1.01	11211.395	0.0	24772.905	0.0
737.3933	28.01	-4.85	122112.940	.5	135670.490	.5
737.3998	9.02	-1.12	457446.390	.5	471003.820	1.5
737.4020	27.00	-3.76	42988.120	3.5	56545.510	2.5
737.4248	24.00	-4.03	35813.730	3.0	49370.700	3.0
737.4295	14.00	-2.53	49933.775	3.0	63490.660	3.0
737.4623	28.01	-2.52	119889.470	5.5	133445.750	4.5
737.4800	40.00	-1.98	12259.943	0.0	25819.633	0.0
737.4885	23.00	-3.02	23519.840	4.5	37075.640	4.5
737.4958	14.00	-3.43	49933.775	3.0	63489.440	2.0
737.5070	76.00	-1.91	18793.202	0.0	32352.395	0.0
737.5246	14.00	-1.19	49933.775	3.0	63488.910	4.0
737.5352	17.00	-3.69	87979.490	3.5	101534.430	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
737.5510	8.01	-2.24	234454.450	2.5	248009.100	1.5
737.5570	45.00	-2.03	13389.148	0.0	26947.422	0.0
737.5603	23.02	-1.88	147127.000	2.5	160681.480	3.5
737.5736	14.00	-2.46	49933.775	3.0	63488.010	3.0
737.5989	28.01	-2.23	93528.440	3.5	107082.210	2.5
737.6125	17.00	-2.57	87979.490	3.5	101533.010	2.5
737.6410	64.00	-1.01	11211.395	0.0	24768.125	0.0
737.6690	62.01	-1.57	11937.313	0.0	25493.529	0.0
737.6827	25.00	-2.33	38008.700	5.5	51560.930	5.5
737.6893	73.00	-7.71	14910.040	3.5	28462.150	2.5
737.6898	13.01	-2.71	121365.200	0.0	134917.300	1.0
737.7067	26.02	-3.80	199906.030	6.0	213457.820	7.0
737.7140	28.00	-3.88	42621.048	3.0	56172.704	3.0
737.7770	64.00	-1.29	11775.998	0.0	25330.229	0.0
737.8261	23.00	-4.96	23608.800	1.5	37158.360	1.5
737.8496	7.00	-1.69	96750.810	1.5	110299.974	2.5
737.8662	23.00	-4.53	19189.280	1.5	32738.140	1.5
737.8826	25.02	-4.69	178816.960	2.5	192365.520	1.5
737.9022	28.02	-3.22	121802.800	3.0	135351.000	2.0
737.9027	25.00	-4.28	49591.510	1.5	63139.700	2.5
737.9272	21.00	-2.63	17025.360	1.5	30573.100	.5
737.9681	24.00	-2.36	36558.550	2.0	50105.540	1.0
737.9888	18.01	-3.44	192556.840	2.5	206103.450	1.5
738.0100	7.00	-3.69	83317.800	1.5	96864.020	2.5
738.0117	28.01	-.94	120316.020	.5	133862.210	1.5
738.0280	64.00	-.99	11775.998	0.0	25325.619	0.0
738.0307	28.01	-1.91	122084.790	1.5	135630.630	2.5
738.0427	18.01	-.82	147503.020	1.5	161048.640	1.5
738.0433	25.00	-1.62	48168.010	4.5	61713.620	5.5
738.0836	9.02	-3.02	427731.850	2.5	441276.720	2.5
738.0852	28.01	-4.13	122441.220	4.5	135986.060	3.5
738.0869	17.00	-2.17	87979.490	3.5	101524.300	2.5
738.0934	17.00	-4.85	87979.490	3.5	101524.180	3.5
738.1397	23.00	-2.75	18805.050	.5	32348.890	.5
738.1572	23.00	-8.04	9544.540	.5	23088.060	1.5
738.1588	24.00	-3.99	36558.550	2.0	50102.040	3.0
738.1730	18.01	-2.28	192712.000	1.5	206255.230	2.5
738.1858	26.00	-4.50	45281.816	2.0	58824.610	2.0
738.1930	28.00	-.86	43258.792	4.0	56801.654	5.0
738.2175	22.00	-2.43	18287.560	4.0	31829.972	4.0
738.2204	29.01	-.60	122416.100	0.0	135958.460	1.0
738.2252	17.00	-2.18	87979.490	3.5	101521.760	3.5
738.2269	28.01	-4.70	121240.900	3.5	134783.140	2.5
738.2329	24.00	-4.62	31049.330	6.0	44591.460	5.0
738.2484	17.00	-.61	87979.490	3.5	101521.336	4.5
738.2503	18.01	-1.25	190592.170	1.5	204133.980	2.5
738.2520	28.01	-4.49	53037.930	2.5	66579.710	1.5
738.2558	28.01	-1.24	120316.020	.5	133857.730	.5
738.2632	26.00	-3.86	21715.735	5.0	35257.309	4.0
738.2730	57.00	-.86	9598.245	0.0	23143.370	0.0
738.2880	26.00	-1.54	37157.546	2.0	50698.666	2.0
738.3023	26.00	-4.04	37046.000	4.0	50586.857	3.0
738.3180	25.02	-4.00	179339.590	2.5	192880.160	3.5
738.3258	26.00	-4.96	40207.120	3.0	53747.547	3.0
738.3261	28.01	-3.05	106369.300	1.5	119909.720	1.5
738.3310	6.00	-4.06	75253.970	1.0	88794.300	2.0
738.3496	28.01	-3.95	122112.940	.5	135652.930	1.5
738.3630	40.00	-1.16	14921.641	0.0	28465.115	0.0
738.3927	7.00	-2.04	96864.020	2.5	110403.220	3.5
738.3977	18.00	-.42	93750.639	1.0	107289.747	2.0
738.4020	6.00	-4.19	75255.270	2.0	88794.300	2.0
738.4145	28.01	-1.93	122084.790	1.5	135623.590	1.5
738.4254	13.01	-1.43	121480.300	3.0	135018.900	2.0
738.4276	25.00	-4.68	37630.620	4.5	51169.180	5.5
738.4581	13.01	-2.18	121480.900	2.0	135018.900	2.0
738.4745	13.01	-3.36	121481.200	1.0	135018.900	2.0
738.4816	25.00	-4.37	38008.700	5.5	51546.270	4.5
738.4903	28.00	-1.39	44206.185	3.0	57743.596	3.0
738.4944	7.00	-1.77	96864.020	2.5	110401.356	2.5
738.4958	26.00	-3.59	40842.130	3.0	54379.440	3.0
738.5073	15.00	-4.81	65585.000	2.5	79122.100	1.5
738.5080	74.00	-2.28	18147.942	0.0	31688.757	0.0
738.5193	6.00	-3.64	75253.970	1.0	88790.850	1.0
738.5236	28.00	-2.05	22102.349	4.0	35639.148	3.0
738.5500	90.00	-2.07	3629.588	0.0	17169.633	0.0
738.5501	26.00	-3.92	38678.015	2.0	52214.330	1.0
738.5623	28.01	-3.74	122441.220	4.5	135977.310	4.5
738.5707	26.00	-4.20	37162.729	3.0	50698.666	2.0
738.5755	22.00	-4.53	33114.412	2.0	46650.260	3.0
738.5856	28.00	-1.68	35639.148	3.0	49174.611	4.0
738.5901	6.00	-4.35	75255.270	2.0	88790.850	1.0
738.5902	23.00	-1.47	19189.280	1.5	32724.860	.5
738.5947	7.00	-2.11	96750.810	1.5	110286.305	2.5
738.5970	64.01	-1.07	18873.860	0.0	32413.043	0.0
738.6033	28.01	-.68	92325.850	3.5	105861.190	2.5
738.6179	7.00	-1.97	96787.650	1.5	110322.721	1.5
738.6201	28.00	-.09	43089.636	5.0	56624.668	6.0
738.6357	26.00	-1.11	39625.784	4.0	53160.530	3.0
738.6365	6.00	-3.67	75256.120	0.0	88790.850	1.0
738.6640	45.00	-.04	32101.693	0.0	45639.648	0.0
738.6747	17.00	-4.06	85735.091	1.5	99269.121	2.5
738.6758	9.02	-3.47	467827.160	1.5	481361.170	1.5
738.6878	10.01	-4.16	292033.150	2.5	305566.940	1.5
738.6988	26.00	-3.22	40842.130	3.0	54375.719	2.0
738.7001	12.00	-3.91	46403.065	2.0	59936.630	1.0
738.7053	27.00	-3.79	33173.360	3.5	46706.830	3.5
738.7086	28.01	-4.78	53037.930	2.5	66571.340	2.5
738.7102	25.01	-2.81	29951.120	1.0	43484.500	2.0
738.7135	23.02	-.83	146846.320	1.5	160379.640	2.5
738.7151	28.01	-2.96	122084.790	1.5	135618.080	2.5
738.7360	63.00	-1.19	15970.189	0.0	29506.825	0.0
738.7626	28.01	-3.23	119913.330	4.5	133445.750	4.5
738.7689	12.00	-2.42	46403.065	2.0	59935.370	2.0
738.7689	12.00	-3.30	46403.065	2.0	59935.370	3.0
738.7689	12.00	-1.02	46403.065	2.0	59935.370	3.0
738.7779	14.00	-3.70	50189.389	2.0	63721.530	2.0
738.8160	7.00	-2.85	96864.020	2.5	110395.463	1.5
738.8210	26.00	-3.13	44166.240	3.0	57697.590	4.0
738.8234	10.00	-3.56	158795.992	1.0	172327.300	0.0
738.8293	13.01	-2.18	121480.900	2.0	135012.100	1.0
738.8347	15.00	-1.05	64239.500	.5	77770.600	.5
738.8456	13.01	-2.66	121481.200	1.0	135012.100	1.0
738.8522	10.00	-2.87	159534.620	1.0	173065.400	2.0
738.8691	27.00	-2.59	21920.090	4.5	35450.560	3.5
738.9101	26.00	-4.35	38175.332	3.0	51705.052	2.0
738.9128	23.00	-2.32	17242.050	5.5	30771.720	4.5
738.9160	63.00	-.78	15002.299	0.0	28535.637	0.0
738.9286	24.00	-1.20	41289.170	1.0	54818.550	2.0
738.9305	26.00	-1.19	39625.784	4.0	53155.130	4.0
738.9319	26.01	-3.80	86388.980	.5	99918.300	1.5
738.9388	26.00	-.50	34692.130	1.0	48221.323	1.0
738.9565	10.01	-4.83	305566.940	1.5	319095.810	2.5
738.9617	26.00	-3.62	31805.059	3.0	45333.834	2.0
738.9748	26.00	-3.44	44285.436	2.0	57813.970	3.0
738.9761	23.00	-5.53	9824.580	2.5	23353.090	3.5
739.0149	13.01	-2.06	121481.200	1.0	135009.000	0.0
739.0419	22.00	-4.27	6598.749	2.0	20126.055	3.0
739.0450	58.01	-3.26	0.000	0.0	13530.976	0.0
739.0700	72.00	-1.71	14599.011	0.0	28129.529	0.0
739.0810	24.00	-4.94	38537.680	5.0	52064.270	4.0
739.0958	24.00	-3.81	35501.260	3.0	49027.580	2.0
739.1023	7.01	-4.81	189335.160	3.0	202861.360	3.0
739.1062	14.00	-3.18	49399.670	1.0	62925.800	1.0
739.1360	42.01	-2.17	12259.943	0.0	25789.253	0.0
739.1395	26.02	-3.49	186998.600	4.0	200524.120	5.0
739.1515	22.00	-2.17	12118.394	4.0	25643.695	3.0
739.1543	24.01	-4.48	53923.570	4.5	67446.820	4.5
739.1592	28.01	-4.71	120002.860	3.5	133526.020	3.5
739.1673	14.00	-3.60	50189.389	2.0	63714.400	2.0
739.1767	9.02	-3.55	431432.270	1.5	444957.110	1.5
739.1920	46.00	.17	38634.952	0.0	52163.237	0.0
739.2056	24.00	-3.81	36577.730	4.0	50102.040	3.0
739.2078	18.01	-4.58	172816.210	.5	186340.480	1.5
739.2410	56.00	.09	12636.000	0.0	26163.388	0.0
739.2423	28.01	-3.80	106620.530	3.5	120144.170	2.5
739.2565	26.01	-4.79	73187.460	.5	86710.840	1.5
739.2608	30.02	-3.20	221343.600	2.0	234866.900	1.0
739.2979	18.00	-1.62	106237.597	2.0	119760.220	1.0
739.3193	14.00	-2.26	50499.838	2.0	64022.070	3.0
739.3570	18.01	-2.69	190592.170	1.5	204113.710	1.5
739.3600	28.00	-.81	29084.478	4.0	42605.964	3.0
739.3613	14.00	-2.11	50499.838	2.0	64021.500	2.0
739.3641	14.00	-1.23	49399.670	1.0	62921.080	2.0
739.3811	13.01	-1.69	132776.400	0.0	146297.500	1.0
739.3899	24.00	-4.82	27703.840	4.0	41224.780	4.0
739.3930	44.00	.13	29439.995	0.0	42964.602	0.0
739.3993	26.00	-2.55	40404.492	1.0	53925.260	1.0
739.4041	25.02	-4.39	195415.200	4.5	208935.860	4.5
739.4424	24.00	-4.68	31355.210	2.0	44875.190	2.0
739.4461	28.00	-3.52	35639.148	3.0	49159.060	2.0
739.4652	14.00	-4.51	50499.838	2.0	64019.400	3.0
739.4664	24.01	-3.30	38269.670	3.5	51789.210	3.5
739.4900	64.01	-1.62	12985.861	0.0	26508.694	0.0
739.5135	23.00	-2.33	17116.920	3.5	30635.600	2.5
739.5157	24.00	-3.92	44068.720	3.0	57587.360	4.0
739.5217	23.00	-3.73	28595.640	3.5	42114.170	3.5
739.5520	14.00	-1.90	48020.074	1.0	61538.050	0.0
739.5994	29.01	-2.01	123556.640	2.0	137073.750	2.0
739.6473	26.00	-2.20	40231.312	2.0	53747.547	3.0
739.6678	26.02	-4.20	186998.600	4.0	200514.460	4.0
739.6684	9.02	-4.19	467827.160	1.5	481343.010	.5
739.6864	24.00	-3.49	41289.170	1.0	54804.690	1.0
739.6867	18.00	-2.40	107496.463	1.0	121011.979	1.0
739.6990	92.00	-1.59	4355.506	0.0	17874.518	0.0
739.7263	28.01	-3.59	122441.220	4.5	135956.010	5.5
739.7362	23.00	-3.11	24727.850	2.5	38242.460	3.5
739.7395	22.00	-1.84	33680.130	3.0	47194.680	4.0
739.7461	22.00	-1.35	25699.950	2.0	39214.380	3.0
739.7581	28.01	-2.57	122084.790	1.5	135599.000	.5
739.7772	19.00	-2.54	21026.580	.5	34540.440	1.5
739.7827	28.01	-3.11	113225.060	.5	126738.820	1.5
739.7855	25.02	-4.75	179152.090	3.5	192665.600	4.5
739.7877	28.01	-4.09	119656.250	3.5	133169.920	3.5
739.7887	19.00	-2.84	21026.580	.5	34540.230	.5
739.7959	22.00	-1.83	25635.740	1.0	39149.260	2.0
739.8238	6.00	-4.25	75253.970	1.0	88766.980	1.0
739.8594	23.00	-2.20	17181.980	4.5	30694.340	3.5
739.8613	7.00	-1.32	96787.650	1.5	110299.974	2.5
739.8676	28.01	-4.14	92325.850	3.5	105838.060	3.5
739.8682	9.00	.17	102405.710	2.5	115917.909	2.5
739.8709	27.00	-2.48	28470.510	1.5	41982.660	1.5
739.8714	23.02	.48	147169.340	3.5	160681.480	3.5
739.8770	39.00	-1.54	15405.586	0.0	28921.346	0.0
739.8944	26.00	-3.50	40257.300	5.0	53769.020	4.0
739.8950	6.00	-4.47	75255.270	2.0	88766.960	1.0
739.9440	26.00	-7.33	12968.552	2.0	26479.366	1.0
739.9530	28.01	-2.49	122112.940	.5	135623.590	1.5
739.9558	9.02	-.22	426558.910	1.5	440069.510	1.5
739.9618	26.01	-3.26	72169.150	1.5	85679.640	2.5
739.9629	20.02	-3.51	328090.990	2.0	341601.460	2.0
739.9733	26.01	-4.79	79885.320	2.5	93395.600	2.5
739.9881	29.01	.20	108014.660	3.0	121524.670	3.0
740.0187	28.01	-3.68	115785.060	1.5	129294.510	2.5
740.0226	24.00	.03	23386.350	3.0	36895.730	3.0
740.0441	22.00	-6.47	14105.680	3.0	27614.667	4.0
740.0870	26.00	-4.50	21038.987	2.0	34547.192	2.0
740.0900	40.00	-1.72	12421.258	0.0	25933.128	0.0
740.0927	8.02	-1.06	365723.900	1.0	379232.000	1.0
740.1009	26.01	-2.90	66377.370	3.5	79885.320	2.5
740.1048	24.00	-4.19	35862.820	4.0	49370.700	3.0
740.1070	26.01	-3.86	65931.460	3.5	79439.300	3.5
740.1129	28.00	-1.54	43256.792	4.0	56766.523	4.0
740.1322	28.00	-1.81	45122.460	1.0	58629.840	2.0
740.1519	28.01	-4.89	113172.960	4.5	126679.980	4.5
740.1530	29.01	-2.50	135135.600	1.0	148642.600	2.0
740.1546	28.01	-3.63	122112.940	.5	135619.910	1.5
740.1690	26.00	-1.43	33765.291	2.0	47271.999	1.0
740.1740	28.00	-4.15	42767.900	3.0	56274.516	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
740.1886	25.00	-3.21	45013.550	2.5	58519.900	3.5
740.2209	23.00	-3.91	23519.840	4.5	37025.600	3.5
740.2316	22.00	-4.02	25643.695	3.0	39149.260	2.0
740.2363	24.00	-4.67	36552.130	3.0	50057.610	2.0
740.2407	24.01	-4.69	74920.800	.5	88426.200	.5
740.2584	14.00	-4.53	47351.554	2.0	60856.630	1.0
740.2757	22.00	-1.13	25797.600	3.0	39302.360	4.0
740.2879	28.01	-4.46	119665.290	2.5	133169.920	3.5
740.2960	28.01	-2.68	122140.710	4.5	135645.100	5.5
740.3388	7.00	-4.32	83284.040	.5	96787.650	1.5
740.3607	28.01	-3.10	101366.140	2.5	114869.350	1.5
740.3624	28.01	-3.97	122441.220	4.5	135944.400	3.5
740.3744	24.00	-3.22	35807.900	2.0	49310.860	3.0
740.3915	18.01	-2.33	191012.350	1.5	204515.000	.5
740.4068	28.01	-3.23	113177.610	3.5	126679.980	4.5
740.4145	29.01	-3.74	131312.700	3.0	144814.930	3.0
740.4150	22.00	-2.10	25605.030	0.0	39107.250	1.0
740.4254	26.02	-4.40	200003.700	7.0	213505.730	6.0
740.4353	29.01	.12	120092.200	2.0	133594.050	3.0
740.4410	63.00	-.04	21454.900	0.0	34960.365	0.0
740.4413	24.01	-4.79	55081.700	1.5	68583.440	2.5
740.4555	9.02	-4.63	442147.190	2.5	455648.670	1.5
740.4633	25.02	-1.86	218977.340	3.5	232478.680	4.5
740.4677	25.01	-7.00	29869.110	2.0	43370.370	3.0
740.5274	24.00	-1.49	35870.530	4.0	49370.700	3.0
740.5466	28.01	-2.77	122140.710	4.5	135640.530	4.5
740.5702	27.00	-3.66	28470.510	1.5	41969.900	.5
740.5772	14.00	.40	45276.188	1.0	58775.451	2.0
740.5806	21.02	.29	114863.800	.5	128363.000	1.5
740.6031	26.01	-4.30	58631.650	4.5	72130.440	4.5
740.6105	7.00	-1.72	96787.650	1.5	110286.305	2.5
740.6222	7.00	-1.09	96864.020	2.5	110362.462	3.5
740.6256	27.00	-2.94	28470.510	1.5	41968.690	2.5
740.6481	26.01	-4.07	71964.810	2.5	85462.780	3.5
740.6942	24.00	-4.28	35813.730	3.0	49310.860	3.0
740.7623	29.01	-1.80	136754.110	2.0	150250.000	2.0
740.7829	28.00	-4.24	44314.980	4.0	57810.494	4.0
740.7888	10.00	-3.17	158795.992	1.0	172291.400	1.0
740.7888	10.00	-4.21	158795.992	1.0	172291.400	2.0
740.7890	73.00	-1.65	11130.738	0.0	24629.859	0.0
740.7950	76.00	-1.20	23148.708	0.0	36647.719	0.0
740.7969	15.00	-4.35	66813.040	1.5	80308.300	2.5
740.8100	28.00	-2.94	42767.900	3.0	56262.920	3.0
740.8106	28.01	-4.62	116732.510	2.5	130227.520	2.5
740.8171	37.00	-1.19	12816.545	0.0	26315.153	0.0
740.8223	12.00	-3.87	46403.065	2.0	59897.860	1.0
740.8223	12.00	-4.35	46403.065	2.0	59897.860	2.0
740.8375	28.01	-4.19	108368.050	2.5	121862.570	3.5
740.8455	7.00	-2.42	96750.810	1.5	110245.183	.5
740.8660	21.00	-5.84	11520.150	1.5	25014.150	2.5
740.8765	25.01	-4.60	87995.500	5.0	101489.310	5.0
740.8767	22.00	-.57	33700.874	4.0	47194.680	4.0
740.8842	28.01	-3.18	122086.580	3.5	135580.250	4.5
740.8962	28.01	-4.27	116838.330	1.5	130331.780	1.5
740.9012	28.01	-4.33	116732.510	2.5	130225.870	3.5
740.9042	28.00	-2.60	44336.100	4.0	57829.405	5.0
740.9082	14.00	.10	45293.629	2.0	58786.860	3.0
740.9151	14.00	-1.62	48102.323	2.0	61595.430	1.0
740.9252	28.00	-1.39	44475.158	2.0	57968.080	3.0
740.9346	28.00	.03	30619.440	2.0	44112.192	1.0
740.9528	20.02	-1.74	346896.260	2.0	360388.680	3.0
740.9700	71.01	-.68	36376.542	0.0	49872.365	0.0
740.9926	14.00	-2.58	48020.074	1.0	61511.770	1.0
740.9929	20.02	-1.90	360388.680	3.0	373880.370	3.0
741.0413	10.00	-2.91	158795.992	1.0	172286.800	2.0
741.0874	17.00	-2.28	85917.937	.5	99407.907	.5
741.0984	25.00	-4.00	49591.510	1.5	63081.280	2.5
741.1146	26.00	-.33	34547.192	2.0	48036.667	2.0
741.1171	26.00	-4.40	45220.662	3.0	58710.090	3.0
741.1302	23.00	-2.55	28768.130	4.5	42257.320	5.5
741.1390	40.00	-1.54	15002.299	0.0	28495.045	0.0
741.1517	25.02	-4.10	124823.900	4.5	138312.700	4.5
741.1572	8.02	-.34	356838.000	1.0	370326.700	0.0
741.1577	28.01	-3.47	122140.710	4.5	135629.400	3.5
741.1753	26.02	-4.97	165719.200	4.0	179207.570	5.0
741.2099	28.01	-4.40	92373.450	2.5	105861.190	2.5
741.2121	28.01	-2.88	122140.710	4.5	135628.410	4.5
741.2264	22.00	-3.08	18141.229	5.0	31628.668	5.0
741.2802	15.00	-3.53	66813.040	1.5	80299.500	1.5
741.3022	28.01	-2.30	122112.940	.5	135599.000	.5
741.3077	22.00	-1.03	25926.820	4.0	39412.780	5.0
741.3253	28.01	-2.68	122144.990	2.5	135630.630	2.5
741.3709	28.01	-4.99	120250.170	3.5	133734.980	3.5
741.3929	28.01	-2.58	122144.990	2.5	135629.400	3.5
741.4118	17.00	-1.76	71958.363	2.5	85442.430	1.5
741.4452	26.01	-3.81	50076.100	1.5	63559.560	.5
741.4500	28.00	-2.77	16017.317	0.0	29500.690	1.0
741.4666	28.01	-4.66	120044.950	4.5	133528.020	3.5
741.5151	26.00	-2.85	40257.300	5.0	53739.488	5.0
741.5314	22.00	-4.67	28702.768	3.0	42184.660	4.0
741.5315	28.01	-3.82	122140.710	4.5	135622.600	3.5
741.5353	14.00	-.64	45293.629	2.0	58775.451	2.0
741.5662	21.00	-4.59	21085.840	3.5	34567.100	3.5
741.5739	22.00	-3.63	27887.740	3.0	41368.660	4.0
741.5774	25.01	-2.46	29889.310	3.0	43370.370	3.0
741.5944	26.00	-4.38	40894.972	2.0	54375.719	2.0
741.5948	14.00	.31	45293.629	2.0	58774.368	3.0
741.6707	23.02	-2.20	147400.620	4.5	160879.980	4.5
741.6983	22.00	-3.64	8602.340	2.0	22081.198	2.0
741.7043	25.02	-2.04	218596.690	5.5	232075.440	6.5
741.7125	28.01	-3.40	122144.990	2.5	135623.590	1.5
741.7274	29.01	-1.40	123556.640	2.0	137034.970	3.0
741.7367	27.00	-2.42	16470.600	1.5	29948.760	2.5
741.7521	29.01	-4.32	115639.020	2.0	129116.900	3.0
741.7530	56.00	-.98	9596.000	0.0	23077.577	0.0
741.7657	14.00	-2.81	49188.617	2.0	62666.250	1.0
741.7670	28.01	-3.15	122144.990	2.5	135622.600	3.5
741.7676	13.01	-3.45	132819.900	2.0	146297.500	1.0
741.7676	13.01	-3.93	132819.900	1.0	146297.500	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
741.7725	28.01	-4.96	122175.420	2.5	135652.930	1.5
741.7797	28.01	-1.60	105838.060	3.5	119315.440	2.5
741.7890	40.00	-1.76	14034.408	0.0	27515.330	0.0
741.8116	29.01	-4.97	136773.200	1.0	150250.000	2.0
741.8325	26.00	-2.76	33412.706	3.0	46889.126	4.0
741.8347	28.01	-4.16	116732.510	2.5	130208.890	3.5
741.8485	24.00	-4.08	44080.900	2.0	57557.030	3.0
741.8551	28.01	-3.52	122270.050	3.5	135746.060	3.5
741.8643	22.00	-4.59	35439.228	1.0	48915.070	2.0
741.8673	26.00	-1.17	33412.706	3.0	46888.494	2.0
741.8760	28.01	-4.04	122812.970	3.5	136288.600	2.5
741.8793	23.02	.35	146846.320	1.5	160321.890	2.5
741.9096	26.02	-4.59	165719.200	4.0	179194.220	4.0
741.9123	23.00	-3.91	26122.040	3.5	39597.610	4.5
741.9124	20.02	-2.03	346732.190	1.0	360207.160	2.0
741.9151	28.01	-2.91	122144.990	2.5	135619.910	1.5
741.9212	14.00	-1.78	49399.670	1.0	62874.460	2.0
741.9310	28.00	-1.25	44314.980	4.0	57789.611	4.0
741.9338	18.01	-.88	190942.650	.5	204417.230	1.5
741.9432	23.00	-3.43	28595.640	3.5	42070.050	2.5
741.9440	28.00	-2.78	44336.100	4.0	57810.494	4.0
741.9542	24.01	-2.67	38315.000	2.5	51769.210	3.5
741.9767	15.00	-4.06	66834.500	1.5	80308.300	2.5
741.9830	41.00	-2.04	12582.573	0.0	26059.971	0.0
741.9927	26.01	-4.65	72650.630	4.5	86124.140	4.5
742.0159	28.01	-2.74	122144.990	2.5	135618.080	2.5
742.0180	26.00	-3.14	41018.029	2.0	54491.080	3.0
742.0405	22.00	-3.38	27614.667	4.0	41087.310	3.0
742.0488	14.00	-1.90	48102.323	2.0	61574.814	3.0
742.0534	10.00	-4.13	158795.992	1.0	172268.400	1.0
742.0566	29.01	-.68	110064.290	1.0	123556.640	2.0
742.0632	26.01	-4.69	72651.910	3.5	86124.140	4.5
742.0638	28.01	-2.36	122086.580	3.5	135556.800	4.5
742.0649	17.01	-2.67	161348.400	1.0	174820.600	2.0
742.0715	25.01	-4.91	87995.500	5.0	101467.580	6.0
742.0860	22.00	-4.12	32013.534	6.0	45485.350	5.0
742.1029	22.00	-1.93	25635.740	1.0	39107.250	1.0
742.1321	23.00	-4.09	19189.280	1.5	32660.260	2.5
742.1518	26.00	-1.68	37409.530	1.0	50880.152	1.0
742.1583	22.00	-7.34	14028.470	2.0	27498.975	3.0
742.1932	25.00	-4.41	37630.620	4.5	51100.490	4.5
742.1944	7.00	-4.64	83317.800	1.5	96787.650	1.5
742.2092	28.01	-3.53	101740.270	3.5	115209.650	3.5
742.2170	9.02	-.14	426733.040	2.5	440202.480	2.5
742.2219	29.01	-2.47	122867.530	1.0	136336.880	1.0
742.2248	7.00	-2.02	96750.810	1.5	110220.107	1.5
742.2277	28.00	.06	29320.782	3.0	42790.027	2.0
742.2308	18.00	-1.69	107131.755	1.0	120600.944	2.0
742.2649	29.01	-3.13	123304.630	1.0	136773.200	1.0
742.2750	40.00	-1.86	12421.258	0.0	25893.354	0.0
742.3176	22.00	-3.02	11639.804	3.0	25107.417	2.0
742.3332	21.00	-2.88	20239.920	3.5	33707.250	2.5
742.3496	14.00	.53	45321.848	3.0	58788.880	4.0
742.3641	7.00	-.61	83284.040	.5	96750.810	1.5
742.3690	72.00	-2.97	8872.327	0.0	22342.717	0.0
742.4032	24.00	-3.92	33762.740	6.0	47228.800	5.0
742.4347	28.01	-2.15	122140.710	4.5	135606.200	5.5
742.4556	24.00	-4.78	31049.330	6.0	44514.440	7.0
742.4588	22.00	-3.49	6661.003	3.0	20126.055	3.0
742.4610	14.00	-.89	45321.848	3.0	58786.860	3.0
742.4617	15.00	-3.61	66834.500	1.5	80299.500	1.5
742.4832	28.01	-4.70	92373.450	2.5	105838.060	3.5
742.4964	10.01	-4.36	292546.700	.5	306011.070	.5
742.4964	14.00	-3.76	47351.554	2.0	60815.925	2.0
742.5124	26.01	-3.63	58666.360	3.5	72130.440	4.5
742.5294	18.00	-1.36	107289.747	2.0	120753.520	3.0
742.5500	92.00	-2.22	0.000	0.0	13467.107	0.0
742.5560	28.01	-4.51	120271.970	2.5	133735.260	2.5
742.5641	9.00	-.27	102680.435	1.5	116143.579	.5
742.5678	22.00	-4.95	11639.804	3.0	25102.880	2.0
742.6052	17.00	-2.07	88080.042	2.5	101542.440	1.5
742.6070	26.00	-3.87	44511.795	2.0	57974.160	2.0
742.6500	7.00	-2.24	96750.810	1.5	110212.396	2.5
742.6570	63.01	-1.24	10243.505	0.0	23708.671	0.0
742.7237	24.00	-4.34	36558.550	2.0	50018.800	1.0
742.7237	27.00	-1.15	32464.730	4.5	45924.980	3.5
742.7524	22.00	-4.86	33680.130	3.0	47139.860	4.0
742.7877	25.00	-3.75	45060.810	3.5	58519.900	3.5
742.7894	28.01	-1.87	100592.980	3.5	114052.040	3.5
742.8092	7.00	-3.65	96864.020	2.5	110322.721	1.5
742.8357	23.00	-3.23	24648.100	1.5	38106.320	2.5
742.8589	18.01	-3.16	144709.910	.5	158167.710	1.5
742.8736	7.00	-3.59	96787.650	1.5	110245.183	.5
742.8826	28.01	-4.84	121925.160	.5	135362.530	1.5
742.8940	90.00	-1.57	7178.519	0.0	20639.390	0.0
742.9141	13.01	-2.07	132819.700	3.0	146276.500	3.0
742.9252	13.01	-1.17	132819.900	2.0	146276.500	3.0
742.9301	21.00	-5.88	11557.640	2.5	25014.150	2.5
742.9832	12.01	-2.13	103419.700	2.5	116875.250	2.5
742.9832	12.01	-.83	103419.700	2.5	116875.250	3.5
742.9859	12.02	-.66	546531.600	1.0	559987.100	1.0
742.9986	26.01	-4.22	49506.990	1.5	62962.260	1.5
742.9997	12.01	-.98	103420.000	1.5	116875.250	2.5
743.0019	28.01	-1.95	122175.420	2.5	135630.630	2.5
743.0157	27.00	-1.38	40827.770	1.5	54282.730	2.5
743.0189	14.00	-1.64	50566.397	1.0	64021.300	2.0
743.0190	64.00	-2.34	1693.808	0.0	15152.414	0.0
743.0250	90.00	-2.02	6291.287	0.0	19749.784	0.0
743.0334	24.00	-3.96	35572.940	2.0	49027.580	2.0
743.0439	25.02	-4.72	178558.300	1.5	192012.750	1.5
743.0549	26.00	-3.81	20874.482	3.0	34326.733	3.0
743.0549	28.01	-2.33	105861.190	2.5	119315.440	2.5
743.0560	22.00	-4.24	27740.190	2.0	41194.420	3.0
743.0615	29.01	-3.35	115662.770	4.0	129116.900	3.0
743.0621	26.02	-3.69	200003.700	7.0	213457.620	7.0
743.0698	28.01	-1.76	122175.420	2.5	135629.400	3.5
743.0730	26.00	-3.30	44243.668	5.0	57697.590	4.0
743.0800	45.00	-1.62	16857.422	0.0	30314.923	0.0
743.0821	26.00	-4.96	37157.546	2.0	50611.303	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
743.0906	14.00	-3.07	45321.848	3.0	58775.451	2.0
743.0957	28.00	-1.11	44336.100	4.0	57789.611	4.0
743.1257	17.00	-1.45	88080.042	2.5	101533.010	2.5
743.1279	17.00	-2.30	88080.042	2.5	101532.970	1.5
743.1378	28.01	-2.79	98969.440	5.5	112422.190	5.5
743.1504	14.00	-2.17	45321.848	3.0	58774.368	3.0
743.1581	14.00	-2.96	50189.389	2.0	63641.770	3.0
743.1667	22.00	-2.91	18037.225	4.0	31489.451	4.0
743.1858	28.01	-4.04	116732.510	2.5	130184.390	2.5
743.2026	22.00	-2.42	14028.470	2.0	27480.047	3.0
743.2219	22.00	-4.01	20209.444	2.0	33660.671	1.0
743.2262	25.01	-2.79	29919.220	2.0	43370.370	3.0
743.2289	23.00	-8.10	9636.960	1.5	23088.060	1.5
743.2670	22.00	-3.19	11776.806	4.0	25227.217	3.0
743.3100	40.00	-1.67	14034.408	0.0	27487.745	0.0
743.3107	23.02	-.79	147127.000	2.5	160576.620	3.5
743.3184	29.01	-3.77	123304.630	1.0	136754.110	2.0
743.3278	22.00	-1.95	25699.950	2.0	39149.260	2.0
743.3337	22.00	-4.21	6556.828	1.0	20006.032	2.0
743.3465	28.00	-.90	43654.974	3.0	57103.946	3.0
743.3516	24.00	-3.96	37205.880	3.0	50654.760	2.0
743.3599	28.01	-1.95	102742.740	1.5	116191.470	2.5
743.3644	9.02	-.30	457555.170	1.5	471003.820	1.5
743.3909	28.01	-2.64	122175.420	2.5	135623.590	1.5
743.3980	24.00	-2.07	35862.820	4.0	49310.860	3.0
743.4096	29.01	-1.20	122416.100	0.0	135863.930	1.0
743.4100	42.00	-1.09	25810.406	0.0	39261.933	0.0
743.4295	28.01	-1.42	120166.520	1.5	133613.990	1.5
743.4307	25.02	-2.01	218816.970	2.5	232264.420	3.5
743.4395	22.00	-2.67	35577.140	2.0	49024.430	3.0
743.4456	28.01	-2.55	122175.420	2.5	135622.600	3.5
743.4500	24.00	-1.42	41224.800	0.0	54671.900	1.0
743.5075	24.01	-4.57	53566.220	3.5	67012.280	2.5
743.5130	28.01	-4.33	123434.600	4.5	136880.560	4.5
743.5191	19.00	-2.61	21026.580	.5	34472.430	1.5
743.5241	24.01	-3.23	53923.570	4.5	67369.330	5.5
743.5329	19.00	-2.91	21026.580	.5	34472.180	.5
743.5376	18.00	-1.30	106237.597	2.0	119683.113	2.0
743.5744	17.00	-2.92	83894.037	3.5	97338.887	2.5
743.5943	28.01	-3.67	122175.420	2.5	135619.910	1.5
743.6072	17.00	-1.37	88080.042	2.5	101524.300	2.5
743.6138	17.00	-1.43	88080.042	2.5	101524.180	3.5
743.6291	18.00	-2.95	105462.804	3.0	118906.665	2.0
743.6301	7.00	-3.03	96750.810	1.5	110194.654	1.5
743.6353	28.01	-3.00	100309.290	5.5	113753.040	4.5
743.6590	63.00	.27	21616.215	0.0	35063.238	0.0
743.6673	27.00	-4.99	40345.950	2.5	53789.120	3.5
743.6828	28.01	-3.18	120002.860	3.5	133445.750	4.5
743.6956	28.01	-4.33	122175.420	2.5	135618.080	2.5
743.7083	9.02	.66	452748.540	2.5	466190.970	3.5
743.7138	27.00	-3.64	15774.040	1.5	29216.370	2.5
743.7448	22.01	-3.75	53554.900	2.5	66996.670	3.5
743.7560	72.00	-1.71	13953.751	0.0	27399.021	0.0
743.7586	28.01	-4.35	116732.510	2.5	130174.030	1.5
743.7725	24.01	-4.48	74984.930	1.5	88426.200	.5
743.7869	26.01	-4.02	72238.630	2.5	85679.640	2.5
743.8000	8.04	.33	722666.000	0.0	736110.474	0.0
743.8012	25.00	-4.03	38120.180	4.5	51560.930	5.5
743.8151	29.01	-.55	122223.840	0.0	135664.340	1.0
743.8245	24.00	-2.67	35870.530	4.0	49310.860	3.0
743.8416	8.01	-1.23	232462.830	2.5	245902.850	2.5
743.8682	28.01	-4.10	122140.710	4.5	135580.250	4.5
743.8898	10.00	-1.15	134818.640	0.0	148257.790	1.0
743.9860	40.00	-1.81	4355.506	0.0	17796.619	0.0
743.9922	17.01	-2.83	161348.400	1.0	174785.700	1.0
743.9978	27.00	-4.79	41969.900	.5	55407.100	1.5
744.0236	17.00	-2.99	85917.937	.5	99354.670	1.5
744.0421	13.01	-1.88	121480.900	2.0	134917.300	1.0
744.0493	18.01	-1.55	159393.310	1.5	172829.580	1.5
744.0495	22.00	-2.94	13981.750	1.0	27418.015	2.0
744.0515	23.00	-4.11	37764.890	5.5	51201.120	6.5
744.0587	13.01	-2.36	121481.200	1.0	134917.300	1.0
744.0592	22.00	-1.19	18192.577	6.0	31628.668	5.0
744.0668	7.00	-2.98	96864.020	2.5	110299.974	2.5
744.0720	14.00	-4.48	50054.800	4.0	63490.660	3.0
744.0841	27.00	-3.66	41041.430	3.5	54477.070	3.5
744.0919	9.02	-4.90	444957.110	1.5	458392.610	1.5
744.0921	26.00	-1.40	39625.784	4.0	53061.280	5.0
744.1207	15.00	-2.52	67113.820	2.5	80548.800	2.5
744.1520	71.00	-.91	24197.256	0.0	37635.371	0.0
744.1688	14.00	-4.03	50054.800	4.0	63488.910	4.0
744.1750	26.00	-3.67	40491.260	0.0	53925.260	1.0
744.1844	15.00	-2.97	68088.270	1.5	81522.100	2.5
744.1850	64.00	-2.30	0.000	0.0	13437.519	0.0
744.2132	24.00	-3.36	39158.630	4.0	52591.940	5.0
744.2298	7.00	-.31	83317.800	1.5	96750.810	1.5
744.2390	45.00	.12	28714.077	0.0	42150.621	0.0
744.2426	28.01	-1.97	100619.260	4.5	114052.040	3.5
744.2487	28.01	-2.81	122080.250	2.5	135512.920	2.5
744.2492	10.01	-3.25	279218.660	2.5	292651.320	1.5
744.2604	7.00	-3.43	96767.650	1.5	110220.107	1.5
744.2692	30.02	-2.74	221143.700	3.0	234576.000	4.0
744.2697	28.01	-.93	108368.050	2.5	121800.340	1.5
744.3019	26.00	-1.76	33765.291	2.0	47197.000	2.0
744.3165	16.00	-2.68	67876.685	4.0	81308.130	3.0
744.3165	16.00	-1.50	67876.685	4.0	81308.130	4.0
744.3165	16.00	-.64	67876.665	4.0	81308.130	5.0
744.3245	26.00	-3.21	41018.029	2.0	54449.330	1.0
744.3257	28.01	-2.44	105668.780	2.5	119100.060	1.5
744.3423	27.00	-1.12	40827.770	1.5	54258.750	2.5
744.3905	23.00	-4.30	19026.340	2.5	32456.450	1.5
744.3911	7.01	-3.80	189335.160	3.0	202765.260	2.0
744.3911	13.01	-1.34	133914.100	2.0	147344.200	3.0
744.3950	24.01	-4.80	53923.570	4.5	67353.600	4.5
744.4210	29.01	-3.40	117883.140	4.0	131312.700	3.0
744.4316	17.00	-2.39	72488.568	1.5	85917.937	.5
744.4543	16.01	-1.90	114804.110	2.5	128233.070	2.5
744.4624	26.00	-3.77	38175.332	3.0	51604.146	3.0
744.4625	26.00	-4.34	47377.909	4.0	60806.720	3.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
744.4733	28.00	-1.80	44314.980	4.0	57743.596	3.0
744.4923	26.00	-3.81	45281.816	2.0	58710.090	3.0
744.5194	14.00	-1.91	48020.074	1.0	61447.860	2.0
744.5700	26.00	-4.50	18378.187	2.0	31805.059	3.0
744.5701	8.02	-3.75	313801.070	0.0	327227.940	1.0
744.5729	24.00	-.43	41782.190	4.0	55209.010	4.0
744.5767	26.00	-.13	34328.733	3.0	47755.485	3.0
744.5768	9.02	-3.49	427731.850	2.5	441156.600	1.5
744.5923	26.01	-2.71	66012.830	4.5	79439.300	3.5
744.5995	28.01	-5.00	122086.580	3.5	135512.920	2.5
744.6006	20.02	-.61	327922.870	2.0	341349.190	1.0
744.6134	25.00	-2.96	38120.180	4.5	51546.270	4.5
744.6711	23.00	-1.86	26171.960	4.5	39597.010	4.5
744.6728	28.01	-4.43	102742.740	1.5	116167.760	1.5
744.6770	45.00	.11	31859.720	0.0	45288.361	0.0
744.6782	16.00	-1.53	67883.208	0.0	81308.130	1.0
744.6880	7.00	-1.99	96787.650	1.5	110212.396	2.5
744.6900	25.00	-2.93	45060.810	3.5	58485.520	4.5
744.7060	28.01	-2.14	106620.530	3.5	120044.950	4.5
744.7110	25.02	-4.91	179152.090	3.5	192576.420	2.5
744.7340	42.00	-.29	31375.775	0.0	44803.388	0.0
744.7357	26.00	-1.83	39969.830	3.0	53393.715	4.0
744.7371	24.01	-4.41	54444.190	3.5	67866.050	2.5
744.7460	29.01	-1.85	135135.600	1.0	148559.300	2.0
744.7542	16.00	-1.53	67884.577	1.0	81308.130	1.0
744.7542	16.00	-1.23	67884.577	1.0	81308.130	2.0
744.7940	26.00	-4.70	44551.325	3.0	57974.160	2.0
744.8070	24.00	-2.55	41782.190	4.0	55204.790	3.0
744.8082	18.01	-2.39	173393.380	2.5	186815.960	3.5
744.8245	7.00	-3.90	96864.020	2.5	110286.305	2.5
744.8258	20.00	-1.67	31539.495	1.0	44961.757	2.0
744.8275	24.00	-4.14	37205.880	3.0	50628.110	3.0
744.8330	70.00	-.88	24600.544	0.0	38026.372	0.0
744.8586	28.01	-2.96	103653.030	3.5	117074.700	3.5
744.8802	16.00	-2.38	67886.847	2.0	81308.130	1.0
744.8802	16.00	-1.38	67886.847	2.0	81308.130	2.0
744.8802	16.00	-1.00	67886.847	2.0	81308.130	3.0
744.9058	23.02	-2.24	147606.500	3.5	161027.320	4.5
744.9341	26.01	-3.60	31364.470	1.5	44784.780	2.5
744.9446	9.02	-.61	452770.850	3.5	466190.970	3.5
744.9457	13.01	-.31	125866.700	1.0	139286.800	2.0
744.9685	20.02	-2.02	360207.160	2.0	373626.850	2.0
744.9724	9.02	.78	452770.850	3.5	466190.470	4.5
745.0028	16.00	-2.38	67889.058	3.0	81308.130	2.0
745.0028	16.00	-1.36	67889.058	3.0	81308.130	3.0
745.0028	16.00	-.80	67889.058	3.0	81308.130	4.0
745.0300	39.01	-1.88	14034.406	0.0	27456.686	0.0
745.0535	20.00	-1.91	31539.495	1.0	44957.655	1.0
745.0862	28.01	-4.11	122047.290	3.5	135464.860	3.5
745.0946	7.01	-2.75	190120.240	1.0	203537.660	1.0
745.1301	22.00	-1.68	25797.600	3.0	39214.380	3.0
745.1584	27.00	-4.35	33674.380	2.5	47090.650	2.5
745.1637	20.00	-2.39	31539.495	1.0	44955.670	0.0
745.1668	18.01	-.63	191169.520	1.5	204585.640	2.5
745.1951	28.00	-2.24	42767.900	3.0	56183.510	4.0
745.2068	12.02	-4.23	548720.700	1.0	562136.100	2.0
745.2073	26.00	-2.90	40842.130	3.0	54257.520	2.0
745.2850	42.00	-1.00	25568.434	0.0	38986.120	0.0
745.3030	62.01	-1.51	12501.916	0.0	25919.278	0.0
745.3073	14.00	-2.95	49399.670	1.0	62813.260	1.0
745.3289	8.02	.24	357111.000	2.0	370524.200	2.0
745.3395	28.01	-4.24	122080.250	2.5	135493.260	1.5
745.3429	25.01	-3.05	72648.800	4.0	86061.750	3.0
745.3623	29.01	-3.52	125568.700	1.0	138981.300	2.0
745.3757	25.02	-2.32	217975.300	2.5	231387.660	3.5
745.3896	28.01	-5.00	116824.150	2.5	130236.260	2.5
745.4002	26.00	-2.85	33765.291	2.0	47177.210	1.0
745.4112	24.00	-.75	41575.100	3.0	54986.820	3.0
745.4122	17.00	-1.84	84688.637	.5	98100.340	.5
745.4618	28.01	-4.57	116786.420	.5	130197.230	1.5
745.4718	24.01	-4.75	53923.570	4.5	67334.200	3.5
745.4790	26.01	-4.61	73189.160	1.5	86599.660	2.5
745.4829	25.00	-4.64	38120.180	4.5	51530.610	3.5
745.4829	18.01	-4.18	189934.550	.5	203344.980	1.5
745.5230	27.00	-4.98	41104.960	2.5	54514.670	3.5
745.5335	24.00	-1.18	41409.030	2.0	54818.550	2.0
745.5376	14.00	-3.01	48102.323	2.0	61511.770	1.0
745.5418	22.00	-4.65	20795.599	5.0	34204.971	4.0
745.5524	23.00	-3.77	28768.130	4.5	42177.310	4.5
745.5530	23.00	-4.73	37342.660	2.5	50751.830	3.5
745.5585	24.00	-4.37	35618.510	1.0	49027.580	2.0
745.5919	28.01	-4.14	122084.790	1.5	135493.260	1.5
745.5986	18.01	-1.36	192712.000	1.5	206120.350	2.5
745.6461	28.00	-1.92	44336.100	4.0	57743.596	3.0
745.6570	22.00	-3.21	25699.950	2.0	39107.250	1.0
745.6579	22.00	-3.47	6598.749	2.0	20006.032	2.0
745.6581	23.02	-3.16	147169.340	3.5	160576.620	3.5
745.6734	7.00	-2.51	96787.650	1.5	110194.654	1.5
745.6747	14.00	-3.55	49399.670	1.0	62806.650	0.0
745.6960	71.01	-.44	36376.542	0.0	49786.833	0.0
745.7348	27.00	-1.21	31699.690	4.5	45105.590	3.5
745.7376	28.01	-4.39	117074.700	3.5	130480.550	3.5
745.7599	23.00	-4.89	8715.720	3.5	22121.170	4.5
745.7916	18.01	-1.27	191012.350	1.5	204417.230	1.5
745.7958	28.00	-3.75	42767.900	3.0	56172.704	3.0
745.7999	18.00	-4.03	111667.870	0.0	125072.600	1.0
745.8243	22.00	-3.69	28702.768	3.0	42107.060	4.0
745.8305	27.00	-3.89	41041.430	3.5	54445.610	2.5
745.8456	21.00	-3.75	11610.240	3.5	25014.150	2.5
745.8461	23.00	-3.08	24838.560	3.5	38242.460	3.5
745.8936	28.00	-2.28	45122.460	1.0	58525.507	1.0
745.8973	28.00	-1.35	44565.100	3.0	57968.080	3.0
745.9374	17.00	-1.58	84988.480	1.5	98390.740	.5
745.9780	56.00	.25	22826.078	0.0	36231.299	0.0
745.9808	15.00	-1.93	66360.120	1.5	79761.600	2.5
746.0174	26.00	-4.80	26224.961	3.0	39625.784	4.0
746.0187	28.01	-2.63	120044.950	4.5	133445.750	4.5
746.0482	23.00	-3.64	20767.570	3.5	34167.840	2.5
746.0587	24.01	-4.51	38269.670	3.5	51669.750	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
746.0888	24.00	-2.35	41575.100	3.0	54974.640	2.0
746.1237	26.00	-3.86	44415.057	4.0	57813.970	3.0
746.1519	16.00	-3.70	64888.014	1.0	78286.420	1.0
746.1531	26.00	-3.48	20641.110	4.0	34039.495	4.0
746.1819	17.00	-2.03	84132.262	2.5	97530.130	2.5
746.1896	14.02	-.27	201597.730	1.0	214995.460	0.0
746.2085	26.02	-4.18	186303.440	3.0	199700.830	4.0
746.2347	14.02	-.48	201597.730	1.0	214994.650	1.0
746.2364	24.00	.14	23498.840	4.0	36895.730	3.0
746.2370	17.00	-1.45	84648.100	2.5	98044.980	1.5
746.2414	26.01	-2.98	31387.980	2.5	44784.780	2.5
746.2520	23.00	-1.67	28768.130	4.5	42164.740	3.5
746.2626	18.01	-4.29	170400.940	2.5	183797.360	2.5
746.2631	9.02	-4.98	376814.020	2.5	390210.430	3.5
746.2654	14.02	-.01	201598.280	2.0	214994.650	1.0
746.2699	22.00	-3.29	28788.372	4.0	42184.660	4.0
746.2715	23.02	.29	146983.380	2.5	160379.640	2.5
746.2748	28.01	-2.22	117074.700	3.5	130470.900	4.5
746.2869	16.00	-4.18	64890.436	0.0	78286.420	1.0
746.2988	25.02	-2.36	218669.260	1.5	232065.030	2.5
746.3049	24.00	-2.57	41409.030	2.0	54804.690	1.0
746.3080	57.00	-.91	7985.094	0.0	21384.388	0.0
746.3378	26.00	-2.20	40842.130	3.0	54237.200	4.0
746.3511	14.00	-3.23	50189.389	2.0	63584.220	1.0
746.3535	16.00	-3.48	64891.632	2.0	78286.420	1.0
746.3640	23.00	-3.33	26004.220	2.5	39398.820	3.5
746.3668	27.00	-4.24	41918.410	3.5	55312.960	4.5
746.3857	21.00	-4.09	21085.840	3.5	34480.050	2.5
746.3860	72.00	-.81	23471.338	0.0	36869.231	0.0
746.4360	64.00	-2.10	483.945	0.0	13880.941	0.0
746.4367	22.00	-5.98	14105.680	3.0	27498.975	3.0
746.4653	28.00	-3.50	40361.254	3.0	53754.036	2.0
746.5222	15.00	-5.00	66813.040	1.5	80204.800	1.5
746.5345	14.02	-1.57	201597.730	1.0	214989.270	2.0
746.5395	18.01	-2.55	192712.000	1.5	206103.450	1.5
746.5479	8.01	-3.36	252607.700	4.5	265999.000	3.5
746.5479	8.01	-3.25	252607.700	4.5	265999.000	4.5
746.5579	10.01	-2.69	290583.170	1.5	303974.290	1.5
746.5652	14.02	-.40	201598.280	2.0	214989.270	2.0
746.5909	22.00	-4.13	31190.631	2.0	44581.160	2.0
746.6148	8.01	-2.66	252608.900	3.5	265999.000	3.5
746.6148	8.01	-.71	252608.900	3.5	265999.000	4.5
746.6165	21.00	-4.48	21032.780	2.5	34422.650	1.5
746.6321	14.02	.35	201599.480	3.0	214989.270	2.0
746.6366	18.01	-3.70	188766.150	2.5	202155.660	2.5
746.6457	22.00	-3.17	14028.470	2.0	27418.015	2.0
746.6566	22.00	-4.84	11531.760	2.0	24921.110	1.0
746.6655	28.01	-4.34	116838.330	1.5	130227.520	2.5
746.6711	26.01	-4.94	50076.100	1.5	63465.190	1.5
746.7046	28.01	-4.64	122812.970	3.5	136201.460	3.5
746.7113	24.00	-2.83	35398.020	4.0	48786.390	5.0
746.7191	24.01	-3.81	52321.300	4.5	65709.530	5.5
746.7275	10.01	-2.26	304440.240	.5	317828.320	.5
746.7570	40.00	-1.63	12259.943	0.0	25651.180	0.0
746.7704	22.00	-2.58	35527.760	1.0	48915.070	2.0
746.7750	73.00	-2.52	9920.875	0.0	23311.789	0.0
746.7832	20.02	-.62	327962.110	1.0	341349.190	1.0
746.7877	26.02	-3.58	184951.620	3.0	198338.620	4.0
746.7944	22.00	-2.51	32857.721	3.0	46244.600	2.0
746.8167	9.02	-3.09	445006.130	2.5	458392.610	1.5
746.8301	23.00	-3.50	13801.530	1.5	27187.770	2.5
746.8312	7.00	-.13	83364.590	2.5	96750.810	1.5
746.8323	29.01	-3.02	135135.600	1.0	148521.800	1.0
746.8446	25.02	-3.09	217975.300	2.5	231361.280	2.5
746.8446	23.00	-6.34	9824.580	2.5	23210.560	2.5
746.8747	26.02	-4.70	184951.620	3.0	198337.060	3.0
746.8910	44.00	.34	30811.173	0.0	44200.008	0.0
746.9004	23.00	-5.04	8578.520	2.5	21963.500	3.5
746.9210	28.01	-2.67	122080.250	2.5	135464.860	3.5
746.9584	24.00	-3.46	37244.170	4.0	50628.110	3.0
746.9824	22.00	-2.72	35652.950	3.0	49036.460	4.0
746.9914	8.01	-4.77	245902.850	2.5	259286.200	2.5
746.9943	22.00	-3.30	6742.757	4.0	20126.055	3.0
746.9960	7.00	-1.57	96864.020	2.5	110247.288	3.5
747.0221	22.01	-3.22	53554.900	2.5	66937.700	2.5
747.0260	24.00	-1.87	41289.170	1.0	54671.900	1.0
747.0483	28.01	-1.81	106620.530	3.5	120002.860	3.5
747.0496	22.00	-1.87	33655.853	2.0	47038.160	3.0
747.0530	63.00	-.94	15002.299	0.0	28388.230	0.0
747.0595	28.01	-3.54	106283.160	2.5	119665.290	2.5
747.0650	24.01	-4.80	52298.120	3.5	65680.150	4.5
747.0729	23.00	-4.59	37644.410	4.5	51026.300	5.5
747.1058	28.01	-3.10	122080.250	2.5	135461.550	2.5
747.1161	18.00	-1.98	93750.639	1.0	107131.755	1.0
747.1208	72.00	-3.75	6556.828	1.0	19937.659	1.0
747.1214	27.00	-3.33	32841.990	4.5	46223.010	4.5
747.1448	13.01	.78	110087.500	2.0	123468.100	3.0
747.1466	25.01	-4.73	55115.800	2.0	68496.370	1.0
747.1496	28.00	-1.41	44206.185	3.0	57586.700	2.0
747.1561	23.00	-3.54	23608.800	1.5	36989.200	2.5
747.1605	28.01	-4.80	122112.940	.5	135493.260	1.5
747.1752	26.00	-4.94	21999.132	4.0	35379.189	5.0
747.1845	24.01	-4.94	38563.150	4.5	51943.040	4.5
747.1912	26.00	-3.83	47377.909	4.0	60757.680	4.0
747.1935	28.01	-2.28	101740.270	3.5	115120.000	2.5
747.2066	22.00	-3.63	29768.655	2.0	43148.150	3.0
747.2253	9.02	-3.52	444957.110	1.5	458336.270	.5
747.2286	8.01	-2.99	252608.900	3.5	265988.000	2.5
747.2337	26.00	-3.43	40421.890	4.0	53800.900	5.0
747.2504	23.00	-3.03	20789.130	2.5	34167.640	2.5
747.2638	23.00	-3.10	24727.850	2.5	38106.320	2.5
747.3292	8.01	-3.30	252607.700	4.5	265985.000	3.5
747.3309	6.00	-1.02	70743.950	1.0	84121.220	0.0
747.3376	25.02	-1.97	218375.610	4.5	231752.760	5.5
747.3499	23.00	-3.41	26021.890	3.5	39398.820	3.5
747.3522	26.00	-1.40	37157.546	2.0	50534.435	3.0
747.3571	26.00	-4.92	47377.909	4.0	60754.710	4.0
747.3594	28.01	-4.09	122084.790	1.5	135461.550	2.5
747.3963	8.01	-4.14	252608.900	3.5	265985.000	3.5
WAVELENGTH	ELEM	LOGCF	ELC	JLO	EUP	JUP
747.4186	15.00	-3.35	66834.500	1.5	80210.200	.5
747.4275	22.00	-1.74	25926.820	4.0	39302.360	4.0
747.4479	22.00	-3.05	31205.985	3.0	44581.160	2.0
747.4502	26.00	-4.13	32133.977	2.0	45509.112	1.0
747.4594	28.01	-4.08	122086.580	3.5	135461.550	2.5
747.4608	26.00	-4.12	31686.342	2.0	45061.267	3.0
747.4762	14.00	-3.90	49850.830	2.0	63225.500	2.0
747.4845	21.00	-1.96	25584.640	2.5	38959.160	3.5
747.4931	22.00	-1.95	14105.680	3.0	27460.047	3.0
747.5047	26.01	-4.19	86544.140	1.5	99918.300	1.5
747.5430	42.00	-1.10	27181.584	0.0	40556.741	0.0
747.5532	22.00	-5.24	13981.750	1.0	27355.042	1.0
747.5639	19.02	-2.47	225082.000	1.5	238455.160	.5
747.5645	28.01	-3.74	106283.160	2.5	119656.250	3.5
747.5740	45.00	.21	30891.830	0.0	44266.432	0.0
747.5780	22.00	-3.07	29661.232	1.0	43034.080	1.0
747.5846	9.02	.26	457959.070	3.5	471331.600	2.5
747.6148	25.02	-2.05	218115.150	3.5	231487.340	4.5
747.6176	6.00	-.76	70743.950	1.0	84116.090	1.0
747.6363	26.00	-2.35	38678.015	2.0	52049.820	2.0
747.6405	18.00	-3.50	111667.870	0.0	125039.600	1.0
747.6416	23.00	-4.52	30694.340	3.5	44066.050	3.5
747.6418	26.00	-3.77	37162.729	3.0	50534.435	3.0
747.6422	10.02	-4.30	398948.510	3.0	412320.210	2.0
747.6466	28.01	-4.23	118379.110	2.5	131750.730	3.5
747.6478	29.01	-4.28	116388.000	2.0	129759.600	1.0
747.6511	9.00	-1.99	105056.282	.5	118427.823	1.5
747.6545	22.00	-4.65	35652.950	3.0	49024.430	3.0
747.6545	24.00	-3.05	48558.570	2.0	61930.050	3.0
747.6740	26.00	-7.07	12968.552	2.0	26339.682	2.0
747.6943	26.00	-2.21	33765.291	2.0	47136.058	2.0
747.7104	28.01	-1.87	122270.050	3.5	135640.530	4.5
747.7205	15.00	-3.06	66834.500	1.5	80204.600	1.5
747.7395	15.00	-2.51	66813.040	1.5	80183.000	2.5
747.7428	28.01	-4.35	117662.110	1.5	131032.010	2.5
747.7518	9.02	-3.65	442278.930	2.5	455648.670	1.5
747.7525	26.00	-3.49	31307.235	4.0	44676.963	4.0
747.7546	9.02	-.31	426989.570	3.5	440359.260	3.5
747.8200	41.00	-1.86	12582.573	0.0	25954.775	0.0
747.8418	26.00	-3.63	41018.029	2.0	54386.160	1.0
747.8564	10.02	-4.56	398952.340	2.0	412320.210	2.0
747.8592	28.01	-3.50	101740.270	3.5	115108.090	2.5
747.8776	27.00	-4.29	16195.680	.5	29563.170	1.5
747.8983	24.00	-4.70	31987.060	4.0	45354.180	5.0
747.9168	8.01	-2.38	232536.060	1.5	245902.850	2.5
747.9364	25.02	-3.40	181949.340	2.5	195315.780	2.5
747.9580	40.00	-1.38	14679.669	0.0	28049.404	0.0
747.9700	26.01	-3.67	31387.980	2.5	44753.820	3.5
748.0030	23.00	-5.50	8476.200	1.5	21841.450	2.5
748.0388	27.00	-4.75	41918.410	3.5	55283.020	2.5
748.0539	24.00	-4.67	31009.000	3.0	44373.340	3.0
748.0606	28.01	-2.25	122080.250	2.5	135444.470	3.5
748.0730	10.01	-4.70	303518.210	1.5	316882.210	2.5
748.1238	22.00	-5.00	35439.228	1.0	48802.320	0.0
748.1289	26.01	-3.15	66522.320	2.5	79885.320	2.5
748.1452	29.01	-1.98	123556.640	2.0	136919.350	3.0
748.1475	28.00	-.86	44314.980	4.0	57677.649	5.0
748.1542	26.00	-4.31	40894.972	2.0	54257.520	2.0
748.1728	22.00	-4.20	28596.293	1.0	41958.510	2.0
748.1892	26.00	-2.79	38678.015	2.0	52039.939	1.0
748.1917	19.00	-2.66	21026.580	.5	34386.460	1.5
748.1990	62.01	-1.40	13389.148	0.0	26754.576	0.0
748.2006	24.00	-4.63	33060.740	3.0	46422.460	4.0
748.2073	26.00	-4.19	40207.120	3.0	53568.720	2.0
748.2085	19.00	-2.96	21026.580	.5	34388.160	.5
748.2179	26.00	-2.15	41018.029	2.0	54379.440	3.0
748.2197	14.00	-2.26	47284.061	1.0	60645.441	2.0
748.2302	18.01	-3.45	161048.640	1.5	174409.830	1.5
748.2538	10.02	-4.12	398952.340	2.0	412313.110	1.0
748.2639	26.01	-4.75	47674.780	1.5	61035.370	.5
748.2644	28.01	-3.37	122270.050	3.5	135630.630	2.5
748.2706	23.00	-2.31	20767.570	3.5	34128.040	3.5
748.2718	9.00	-.72	102680.435	1.5	116040.883	1.5
748.2891	24.00	-1.61	49310.860	3.0	62671.000	4.0
748.2991	15.00	-3.01	66813.040	1.5	80173.000	.5
748.3092	25.02	-2.70	218705.250	2.5	232065.030	2.5
748.3109	10.01	-4.77	292651.320	1.5	306011.070	.5
748.3333	28.01	-2.55	122270.050	3.5	135629.400	3.5
748.3350	74.00	-1.89	20890.298	0.0	34253.297	0.0
748.3445	6.00	-.49	70743.950	1.0	84103.100	2.0
748.3500	57.01	-3.16	967.890	0.0	14330.621	0.0
748.3525	26.00	-4.90	37521.144	2.0	50880.152	1.0
748.3585	28.01	-4.37	116838.330	1.5	130197.230	1.5
748.3613	24.01	-2.61	52321.300	4.5	65680.150	4.5
748.3888	28.01	-2.51	122270.050	3.5	135628.410	4.5
748.3983	27.00	-1.50	40345.950	2.5	53704.140	2.5
748.4073	22.00	-.74	33680.130	3.0	47038.160	3.0
748.4151	28.01	-3.56	122086.580	3.5	135444.470	3.5
748.4263	26.00	-2.38	41018.029	2.0	54375.719	2.0
748.4328	18.00	-1.81	106087.305	1.0	119444.880	2.0
748.4384	17.00	-1.95	84485.309	1.5	97842.783	1.5
748.4448	26.00	-4.19	40534.180	3.0	53891.540	3.0
748.4448	10.02	-4.10	398955.750	1.0	412313.110	1.0
748.4560	72.00	-1.21	22745.421	0.0	36106.260	0.0
748.4633	24.00	-1.37	41289.170	1.0	54646.200	0.0
748.5018	17.00	-2.59	84688.637	.5	98044.980	1.5
748.5109	27.00	-1.46	40345.950	2.5	53702.130	3.5
748.5149	22.00	-2.78	35503.400	0.0	48859.510	1.0
748.5162	7.00	-3.32	96864.020	2.5	110220.107	1.5
748.5250	25.02	-4.38	178816.960	2.5	192172.890	2.5
748.5306	23.00	-3.22	24648.100	1.5	38003.930	1.5
748.5378	23.01	-4.00	26839.820	3.0	40195.520	3.0
748.5569	25.00	-3.69	45130.160	4.5	58465.520	4.5
748.5740	42.01	.10	26133.037	0.0	39491.770	0.0
748.5743	18.01	-4.95	172816.210	.5	186171.260	.5
748.5769	14.00	-2.53	47351.554	2.0	60706.558	1.0
748.5790	44.00	.46	30407.885	0.0	43766.529	0.0
748.5855	23.00	-1.96	20812.990	1.5	34167.840	2.5
748.5911	24.01	-3.25	38315.000	2.5	51669.750	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
748.5939	13.01	-1.90	133914.100	2.0	147268.600	1.0
748.6129	9.02	-4.56	442294.310	1.5	455648.670	1.5
748.6130	26.00	-3.83	31322.603	3.0	44676.963	4.0
748.6315	25.01	-4.44	62564.700	1.0	75918.730	2.0
748.6393	17.00	-1.42	88188.550	1.5	101542.440	1.5
748.6634	8.01	-2.14	232462.830	2.5	245816.290	1.5
748.6796	15.00	-3.22	66343.330	.5	79696.500	1.5
748.6878	7.00	-3.09	96750.810	1.5	110103.634	1.5
748.6900	46.00	-.29	35247.336	0.0	48603.999	0.0
748.6971	24.00	-2.44	31393.400	5.0	44746.260	6.0
748.7144	28.01	-2.64	122270.050	3.5	135622.600	3.5
748.7397	8.01	-3.81	252608.900	3.5	265961.000	2.5
748.7643	22.00	-2.94	25797.600	3.0	39149.260	2.0
748.7958	24.00	-1.34	49310.860	3.0	62661.960	3.0
748.8080	56.00	-.23	9596.000	0.0	22950.558	0.0
748.8384	27.00	-3.22	41918.410	3.5	55268.750	3.5
748.8601	22.00	-2.95	28702.768	3.0	42052.720	3.0
748.8687	25.02	-3.62	195682.500	5.5	209032.300	5.5
748.8697	28.00	-2.09	30912.838	1.0	44262.619	2.0
748.8822	22.00	-3.32	28638.832	2.0	41988.390	3.0
748.9144	9.00	-1.17	105056.282	.5	118405.267	.5
748.9311	28.00	-1.54	45281.152	3.0	58629.640	2.0
748.9315	28.01	-2.83	122086.580	3.5	135435.260	4.5
748.9349	27.00	-.80	40345.950	2.5	53694.570	3.5
748.9416	15.00	-3.94	66834.500	1.5	80183.000	2.5
748.9471	17.00	-1.52	84132.262	2.5	97480.664	1.5
748.9473	28.00	-1.73	45281.152	3.0	58629.550	3.0
748.9486	7.00	-2.17	96864.020	2.5	110212.396	2.5
748.9545	28.01	-4.99	122144.990	2.5	135493.260	1.5
748.9572	22.00	-1.26	18141.229	5.0	31489.451	4.0
748.9680	28.01	-3.76	122270.050	3.5	135618.080	2.5
748.9848	25.02	-4.40	179728.690	1.5	192576.420	2.5
749.0100	15.00	-2.86	67113.820	2.5	80461.100	3.5
749.0185	26.00	-4.78	40421.890	4.0	53769.020	4.0
749.0190	22.00	-4.86	27740.190	2.0	41087.310	3.0
749.0521	25.01	-3.25	62572.200	2.0	75918.730	2.0
749.0763	25.01	-2.89	65567.070	2.0	78913.170	2.0
749.0797	23.00	-4.24	28768.130	4.5	42114.170	3.5
749.0802	21.00	-4.77	11520.150	1.5	24866.180	1.5
749.0898	27.00	-2.67	43199.650	2.5	56545.510	2.5
749.1000	63.00	-.32	21616.215	0.0	34965.568	0.0
749.1079	14.00	-2.20	48102.323	2.0	61447.660	2.0
749.1100	25.01	-.92	100682.300	4.0	114027.800	4.0
749.1111	18.01	-3.02	191169.520	1.5	204515.000	.5
749.1212	29.01	-2.97	125247.800	2.0	138593.100	1.0
749.1364	22.00	-3.59	6661.003	3.0	20006.032	2.0
749.1392	28.01	-4.53	121325.090	2.5	134670.070	1.5
749.1420	10.01	-.92	290583.170	1.5	303928.100	.5
749.1640	26.00	-.98	34692.130	1.0	48036.667	2.0
749.1661	25.01	-.06	100682.300	4.0	114026.800	5.0
749.1683	17.00	-1.24	88188.550	1.5	101533.010	2.5
749.1706	17.00	-2.20	88188.550	1.5	101532.970	1.5
749.1740	18.00	-2.16	112138.980	2.0	125483.340	2.0
749.1841	18.00	-3.35	112138.980	2.0	125483.160	3.0
749.1942	25.01	-2.10	100682.300	4.0	114026.300	3.0
749.2099	18.00	-1.02	112138.980	2.0	125482.700	3.0
749.2116	10.01	-.82	280989.530	1.5	294333.220	.5
749.2118	17.00	-.85	83894.037	3.5	97237.723	2.5
749.2307	25.00	-4.07	49888.080	3.5	63231.430	4.5
749.2542	28.01	-2.17	92325.850	3.5	105668.780	2.5
749.3238	26.00	-4.43	38678.015	2.0	52019.706	1.0
749.3318	28.00	-.68	44336.100	4.0	57677.649	5.0
749.3318	10.01	-3.60	304440.240	.5	317781.790	1.5
749.3626	22.01	-4.12	53596.700	1.5	66937.700	2.5
749.3671	21.01	-4.74	14261.400	4.0	27602.320	3.0
749.3823	27.00	-3.78	41104.960	2.5	54445.610	2.5
749.4357	25.01	-.22	100688.100	3.0	114027.800	4.0
749.4654	29.01	-4.06	135863.930	1.0	149203.100	0.0
749.4688	22.00	-4.39	6598.749	2.0	19937.859	1.0
749.4727	26.00	-5.74	12560.933	3.0	25899.974	4.0
749.4801	23.00	-2.72	20789.130	2.5	34128.040	3.5
749.4880	39.00	-.93	18873.860	0.0	32216.302	0.0
749.4884	26.00	-4.45	40207.120	3.0	53545.882	3.0
749.5025	23.02	-.80	146983.380	2.5	160321.890	2.5
749.5031	15.00	-3.10	66834.500	1.5	80173.000	.5
749.5079	26.00	.02	34039.495	4.0	47377.909	4.0
749.5200	25.01	-.77	100688.100	3.0	114026.300	3.0
749.5240	45.00	-.10	28391.447	0.0	41733.248	0.0
749.5481	12.02	-.66	570112.800	0.0	583450.500	1.0
749.5481	12.02	-.66	570112.800	0.0	583450.500	1.0
749.5645	26.00	-2.48	40231.312	2.0	53568.720	2.0
749.5713	22.00	-1.65	33700.874	4.0	47038.160	3.0
749.6043	25.01	-1.80	100688.100	3.0	114024.800	2.0
749.6112	22.00	-1.34	18037.225	4.0	31373.801	3.0
749.6172	9.02	-1.47	426733.040	2.5	440069.510	1.5
749.6211	25.02	-3.71	195415.200	4.5	208751.600	4.5
749.6223	15.00	-3.18	66360.120	1.5	79696.500	1.5
749.6577	17.00	-2.03	88188.550	1.5	101524.300	2.5
749.6582	24.00	-1.57	49310.860	3.0	62646.600	2.0
749.6605	28.01	-4.95	116838.330	1.5	130174.030	1.5
749.7122	7.00	-4.40	106814.459	2.5	120149.238	3.5
749.7723	26.02	-4.24	185003.350	2.0	198337.060	3.0
749.7729	25.01	-.42	100692.600	2.0	114026.300	3.0
749.8460	27.00	-3.12	41528.530	5.5	54860.930	4.5
749.8534	26.00	-1.94	33412.706	3.0	46744.975	3.0
749.8573	28.01	-4.84	116087.380	4.5	129419.580	4.5
749.8573	25.01	-.80	100692.600	2.0	114024.800	2.0
749.8826	22.00	-3.24	35527.760	1.0	48859.510	1.0
749.8830	57.00	-.91	7985.094	0.0	21320.508	0.0
749.8961	28.01	-2.47	113407.310	2.5	126738.820	1.5
749.9045	9.02	-3.07	376879.070	3.5	390210.430	3.5
749.9118	25.01	-2.48	62587.500	3.0	75918.730	2.0
749.9304	25.01	-1.80	100692.600	2.0	114023.500	1.0
749.9411	27.00	-3.43	27497.060	2.5	40827.770	1.5
749.9445	29.01	-1.82	136919.350	3.0	150250.000	2.0
749.9454	7.00	-4.50	96864.020	2.5	110194.654	1.5
749.9529	13.01	-1.86	110087.500	2.0	123418.000	3.0
749.9748	28.01	-2.28	113408.710	1.5	126738.820	1.5
749.9750	44.00	.64	28310.790	0.0	41644.568	0.0
749.9962	29.01	-3.44	125568.700	1.0	138898.430	1.0
750.0002	15.00	-2.94	67971.140	.5	81300.800	1.5
750.0092	25.01	-.65	100695.300	1.0	114024.800	2.0
750.0188	18.00	-2.44	107289.747	2.0	120619.076	2.0
750.0469	28.01	-4.53	99844.130	3.5	113172.960	4.5
750.0497	28.01	.45	126679.980	4.5	140006.760	3.5
750.0647	18.00	-1.45	106237.597	2.0	119566.110	3.0
750.0795	24.00	-3.82	33040.100	2.0	46368.350	3.0
750.0823	25.01	-.95	100695.300	1.0	114023.500	1.0
750.1272	26.00	-2.77	33765.291	2.0	47092.693	3.0
750.1448	26.02	-4.50	188955.560	3.0	202282.650	2.0
750.1620	42.00	-1.38	25649.091	0.0	38979.545	0.0
750.1739	22.00	-3.59	14028.470	2.0	27355.042	1.0
750.1774	26.02	-3.30	186268.790	2.0	199595.300	3.0
750.1819	10.01	-2.93	279324.890	1.5	292651.320	1.5
750.1876	28.00	-1.40	45122.460	1.0	58448.790	0.0
750.1954	28.01	-.76	126679.980	4.5	140006.170	4.5
750.2073	18.01	-4.54	190592.170	1.5	203918.150	1.5
750.2390	62.01	-2.05	8469.040	0.0	21798.126	0.0
750.2715	27.00	-1.13	41101.800	.5	54426.640	1.5
750.2920	40.00	-1.69	14276.381	0.0	27604.525	0.0
750.3154	24.00	-3.54	37233.500	5.0	50557.560	4.0
750.3865	18.00	-.42	95399.870	1.0	108722.668	0.0
750.4033	8.01	-3.28	252607.700	4.5	265930.200	4.5
750.4090	17.00	-1.98	84485.309	1.5	97807.707	2.5
750.4160	74.00	-2.90	13227.833	0.0	26553.775	0.0
750.4168	26.01	-3.40	50142.930	2.5	63465.190	1.5
750.4218	26.01	-3.88	49506.990	1.5	62829.160	.5
750.4376	26.02	-2.56	186378.940	4.0	199700.830	4.0
750.4460	26.01	-9.01	25787.600	1.5	39109.340	.5
750.4470	42.00	-.89	26455.667	0.0	39781.058	0.0
750.4708	8.01	-1.31	252608.900	3.5	265930.200	4.5
750.4929	14.00	-1.72	48102.323	2.0	61423.230	3.0
750.5147	18.01	-1.29	161089.310	.5	174409.830	1.5
750.5204	28.01	-2.80	122080.250	2.5	135400.670	3.5
750.5282	28.00	-2.95	42954.234	2.0	56274.516	2.0
750.5350	64.01	-2.00	12824.546	0.0	26146.375	0.0
750.5514	28.01	-3.81	122144.990	2.5	135464.860	3.5
750.5622	22.00	-3.08	28638.832	2.0	41958.510	2.0
750.5666	13.01	-4.89	134181.200	4.0	147500.800	4.0
750.5666	13.01	-3.36	134181.200	5.0	147500.800	4.0
750.5891	21.02	-.02	114863.800	.5	128183.000	.5
750.5975	26.00	-2.17	40842.130	3.0	54161.182	3.0
750.6004	13.01	-3.58	134181.200	4.0	147500.200	3.0
750.6004	13.01	-2.85	134181.200	4.0	147500.200	3.0
750.6168	26.00	-2.74	41130.620	1.0	54449.330	1.0
750.6180	22.00	-2.80	28788.372	4.0	42107.060	4.0
750.6230	13.01	-3.59	134181.200	3.0	147499.800	2.0
750.6342	26.02	-4.42	200656.020	6.0	213974.420	6.0
750.6658	28.01	-4.71	122175.420	2.5	135493.260	1.5
750.6794	26.00	-4.56	40421.890	4.0	53739.488	5.0
750.6963	8.01	-1.27	252607.700	4.5	265925.000	5.5
750.7132	28.01	-4.99	121325.090	2.5	134642.090	3.5
750.7236	26.00	-1.89	35611.608	3.0	48928.423	2.0
750.7592	7.00	-1.94	96787.650	1.5	110103.834	1.5
750.8248	27.00	-4.05	41041.430	3.5	54356.450	4.5
750.8310	24.00	-4.00	48661.590	3.0	61976.500	4.0
750.8502	26.00	-3.79	40231.312	2.0	53545.882	3.0
750.8626	26.00	-2.58	33412.706	3.0	46727.055	2.0
750.8749	15.00	-1.85	68088.270	1.5	81402.400	2.5
750.8772	28.01	-3.02	122086.580	3.5	135400.670	3.5
750.8936	16.01	-1.76	115285.310	3.5	128599.110	3.5
750.8990	74.00	-1.92	19680.435	0.0	32997.805	0.0
750.9167	24.00	-4.46	37244.170	4.0	50557.560	4.0
750.9240	7.01	-3.12	188857.370	2.0	202170.630	1.0
750.9737	15.00	-3.14	67113.820	2.5	80426.200	1.5
750.9762	22.00	-2.75	14105.680	3.0	27418.015	2.0
750.9802	22.00	-3.69	29768.655	2.0	43080.920	2.0
751.0404	18.00	-2.61	107289.747	2.0	120600.944	2.0
751.0493	28.01	-4.95	116824.150	2.5	130135.190	1.5
751.0572	20.02	-2.34	346896.260	2.0	360707.160	2.0
751.0589	27.00	-4.03	41041.430	3.5	54352.300	3.5
751.0611	23.00	-3.02	25930.510	1.5	39241.340	2.5
751.0750	79.00	.42	40974.020	0.0	54286.270	0.0
751.0785	14.00	-1.77	48264.292	3.0	61574.814	3.0
751.0967	28.01	-3.94	122270.050	3.5	135580.250	4.5
751.1024	26.00	-3.50	44664.061	2.0	57974.160	2.0
751.1036	26.00	.18	33695.378	5.0	47005.455	5.0
751.1339	28.01	-4.88	116838.330	1.5	130147.870	.5
751.1418	24.00	-4.77	33040.100	2.0	46349.500	2.0
751.1537	24.00	-4.16	33113.270	4.0	46422.460	4.0
751.1689	26.02	-2.16	186268.790	2.0	199577.710	2.0
751.1821	28.00	-2.88	42954.234	2.0	56262.920	3.0
751.1836	28.01	-4.62	116067.380	4.5	129396.040	5.5
751.1904	21.00	-3.92	11557.640	2.5	24866.180	1.5
751.2121	26.00	-3.69	18378.187	2.0	31686.342	2.0
751.2142	26.00	-2.49	33412.706	3.0	46720.624	4.0
751.2429	24.00	-4.35	33060.740	3.0	46366.350	3.0
751.2666	24.01	-2.88	38362.560	1.5	51669.750	2.5
751.2764	28.00	-1.42	45281.152	3.0	58586.168	3.0
751.3620	24.00	-4.44	30787.300	1.0	44092.800	0.0
751.3654	25.02	-4.23	179683.610	4.5	192989.050	5.5
751.3770	60.01	-2.00	7420.492	0.0	20729.390	0.0
751.3865	22.00	-2.79	28596.293	1.0	41901.360	1.0
751.4072	8.02	-.22	357111.000	2.0	370415.700	1.0
751.4213	18.00	-4.16	111818.090	1.0	125122.540	0.0
751.4648	18.00	-.42	93750.639	1.0	107054.319	0.0
751.4918	9.00	-1.13	102840.376	.5	116143.579	.5
751.5089	26.01	-4.14	46967.470	2.5	60270.370	3.5
751.5281	27.00	-3.49	43242.950	2.5	56545.510	2.5
751.5498	26.00	-3.17	44511.795	2.0	57813.970	3.0
751.5700	40.00	-1.33	15566.901	0.0	28672.382	0.0
751.5812	24.00	-4.46	30787.300	1.0	44086.920	1.0
751.5834	26.01	-3.70	31483.200	3.5	44764.780	2.5
751.5930	41.00	-1.83	8630.355	0.0	21935.428	0.0
751.6083	28.01	-3.58	99418.610	3.5	112719.750	3.5
751.6524	27.00	-4.93	41982.660	1.5	55283.020	2.5
751.6558	24.00	-1.84	49370.700	3.0	62671.000	4.0
751.6580	9.02	-4.38	440069.510	1.5	453369.770	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
751.6631	26.02	-3.66	186303.440	3.0	199603.610	4.0
751.6806	27.00	-4.90	41968.890	2.5	55268.750	3.5
751.6965	28.01	-4.75	119909.720	1.5	133209.300	2.5
751.7000	26.00	-3.73	45220.662	3.0	58520.180	4.0
751.7111	26.00	-3.52	47377.909	4.0	60677.230	5.0
751.7513	23.01	-4.14	36425.070	4.0	49723.680	4.0
751.7835	23.00	-3.03	20767.570	3.5	34065.610	2.5
751.7875	28.01	-.41	120316.020	.5	133613.990	1.5
751.7892	23.02	.12	146846.320	1.5	160144.260	1.5
751.7950	40.00	-1.15	17663.997	0.0	30965.495	0.0
751.8117	14.00	-3.22	50189.389	2.0	63486.930	1.0
751.8344	25.00	-2.84	45130.160	4.5	58427.300	5.5
751.8994	28.01	-3.42	106369.300	1.5	119665.290	2.5
751.9770	41.00	-1.62	13066.518	0.0	26364.797	0.0
751.9852	14.00	-3.96	50499.838	2.0	63794.310	2.0
751.9933	23.00	-3.18	30771.720	4.5	44066.050	3.5
752.0299	14.00	-4.76	50499.838	2.0	63793.520	1.0
752.0352	26.01	-4.03	48039.230	2.5	61332.820	1.5
752.0560	73.00	-2.41	10888.765	0.0	24185.647	0.0
752.0660	74.00	-2.44	19438.462	0.0	32735.167	0.0
752.0799	28.01	-3.26	106620.530	3.5	119913.330	4.5
752.0929	24.00	-3.42	33762.740	6.0	47055.310	5.0
752.1030	40.00	-1.55	15324.929	0.0	28620.980	0.0
752.1046	28.00	-.99	44475.158	2.0	57767.520	1.0
752.1087	23.00	-4.29	23935.150	2.5	37227.440	2.5
752.1263	23.00	-3.84	24648.100	1.5	37940.080	.5
752.1331	26.02	-2.29	186303.440	3.0	199595.300	3.0
752.1407	14.00	-4.20	49933.775	3.0	63225.500	2.0
752.1670	24.00	-1.56	49370.700	3.0	62661.960	3.0
752.1897	22.00	-2.99	30039.211	5.0	43330.070	5.0
752.2095	23.00	-4.02	15078.250	.5	28368.760	1.5
752.2248	17.00	-2.45	83894.037	3.5	97184.277	3.5
752.2700	28.01	-4.33	122175.420	2.5	135464.660	3.5
752.2717	28.01	-2.47	99132.780	5.5	112422.190	5.5
752.2752	18.00	-4.69	105617.315	2.0	118906.665	2.0
752.2758	28.00	-.32	29500.690	1.0	42790.027	2.0
752.2763	14.00	-2.02	49060.601	1.0	62349.930	2.0
752.2819	10.01	-.86	280797.260	2.5	294086.490	1.5
752.2872	26.00	-1.84	37409.530	1.0	50698.666	2.0
752.3000	27.00	-2.73	41225.760	4.5	54514.670	3.5
752.3085	24.00	-3.50	33060.740	3.0	46349.500	2.0
752.3107	9.02	.01	457715.100	2.5	471003.820	1.5
752.3177	22.00	-2.66	28896.062	5.0	42184.660	4.0
752.3402	6.00	-1.08	70743.950	1.0	84032.150	1.0
752.3483	22.00	-4.88	33655.853	2.0	46943.910	2.0
752.3765	22.00	-3.28	25926.820	4.0	39214.380	3.0
752.3859	22.00	-3.80	27907.026	2.0	41194.420	3.0
752.3917	25.00	-4.93	34938.700	4.5	48225.990	3.5
752.4036	25.02	-2.29	218977.340	3.5	232264.420	3.5
752.4104	21.00	-.59	25584.640	2.5	38871.600	2.5
752.4436	26.00	-4.88	38175.332	3.0	51461.707	4.0
752.4574	28.01	-3.93	122175.420	2.5	135461.550	2.5
752.4733	28.01	-3.76	122790.410	4.5	136076.260	4.5
752.4862	22.00	-2.84	28702.768	3.0	41988.390	3.0
752.4873	22.00	-4.76	35439.228	1.0	48724.830	1.0
752.4877	14.00	-2.23	48020.074	1.0	61305.670	1.0
752.5022	25.01	-4.52	55759.270	3.0	69044.610	2.0
752.5111	28.00	-.33	29320.782	3.0	42605.964	3.0
752.5151	22.00	-4.38	35439.228	1.0	48724.340	2.0
752.5265	7.00	-2.82	96750.810	1.5	110035.720	.5
752.6064	13.01	-2.50	134181.200	4.0	147464.700	4.0
752.6064	13.01	-2.64	134181.200	4.0	147464.700	4.0
752.6064	13.01	-.88	134181.200	4.0	147464.700	5.0
752.6064	13.01	-3.97	134181.200	4.0	147464.700	5.0
752.6064	13.01	-.87	134181.200	4.0	147464.700	5.0
752.6064	13.01	-4.26	134181.200	5.0	147464.700	4.0
752.6064	13.01	-2.52	134181.200	5.0	147464.700	5.0
752.6064	13.01	-2.62	134181.200	5.0	147464.700	5.0
752.6064	13.01	-.79	134181.200	5.0	147464.700	6.0
752.6064	13.01	-.98	134181.200	3.0	147464.700	4.0
752.6251	27.00	-1.45	33462.830	2.5	46746.000	2.5
752.6359	23.00	-3.84	30635.600	2.5	43918.580	2.5
752.6500	25.02	-1.84	219195.950	4.5	232478.680	4.5
752.6612	26.00	-3.26	44415.057	4.0	57697.590	4.0
752.6670	24.01	-3.02	55023.300	2.5	68305.730	1.5
752.6704	22.00	-4.76	35577.140	2.0	48859.510	1.0
752.6948	27.00	-2.63	43263.570	1.5	56545.510	2.5
752.7231	8.01	-1.19	232747.510	2.5	246028.950	3.5
752.7560	23.02	-.71	147400.620	4.5	160681.480	3.5
752.7560	70.00	-.74	25084.489	0.0	38369.006	0.0
752.7656	7.00	-3.63	106868.635	3.5	120149.325	4.5
752.7906	28.01	-1.93	117662.110	1.5	130942.360	1.5
752.7917	8.01	-1.29	232536.060	1.5	245816.290	1.5
752.7940	28.01	-3.93	117662.110	1.5	130942.300	1.5
752.7991	15.00	-2.21	66834.500	1.5	80114.600	1.5
752.8104	26.01	-3.65	86544.140	1.5	99824.040	2.5
752.8112	26.00	-2.49	40594.413	4.0	53874.300	5.0
752.8541	27.00	-1.73	33466.870	3.5	46746.000	2.5
752.8643	22.00	-2.11	35757.510	4.0	49036.460	4.0
752.8700	63.00	.08	17260.709	0.0	30543.215	0.0
752.8960	28.01	-2.83	57080.550	3.5	70358.940	4.5
752.8961	9.02	-4.97	442370.280	.5	455648.670	1.5
752.9539	28.01	-1.96	120166.520	1.5	133443.690	2.5
752.9624	28.01	-3.72	100475.820	3.5	113753.040	4.5
752.9873	23.00	-1.99	26122.040	3.5	39398.820	3.5
753.0044	23.00	-2.75	20789.130	2.5	34065.610	2.5
753.0236	23.00	-3.96	24830.180	1.5	38106.320	2.5
753.0270	23.00	-3.64	24727.850	2.5	38003.930	1.5
753.0373	24.00	-1.81	49370.700	3.0	62646.600	2.0
753.0556	22.00	-3.30	28596.293	1.0	41871.870	2.0
753.0732	22.00	-2.83	28596.293	1.0	41871.560	0.0
753.0832	8.01	-.69	232753.860	3.5	246028.950	3.5
753.1093	18.00	-2.92	113020.390	3.0	126295.020	3.0
753.1117	26.00	-1.38	35257.309	4.0	48531.896	3.0
753.1133	22.00	-2.92	35527.760	1.0	48802.320	0.0
753.1161	18.00	-3.04	113020.390	3.0	126294.900	3.0
753.1161	18.00	-1.61	113020.390	3.0	126294.900	4.0
753.1297	26.02	-3.13	186303.440	3.0	199577.710	2.0
753.1745	23.02	-1.05	147606.500	3.5	160879.980	4.5
753.1761	14.00	-2.81	50499.838	2.0	63773.290	3.0
753.1983	26.00	-4.45	45551.748	1.0	58824.610	2.0
753.2070	44.00	-.80	24761.859	0.0	38038.422	0.0
753.2256	26.01	-4.30	66612.740	1.5	79885.320	2.5
753.2296	25.02	-2.75	218115.150	3.5	231387.660	3.5
753.2784	24.00	-4.74	31028.330	2.0	44299.980	2.0
753.3020	63.00	-1.12	15163.614	0.0	28436.502	0.0
753.3369	26.01	-4.50	31483.200	3.5	44753.820	3.5
753.3448	27.00	-1.45	32654.500	2.5	45924.960	3.5
753.3460	24.00	-3.95	36552.130	3.0	49622.590	2.0
753.3590	57.00	-1.79	2984.328	0.0	16258.212	0.0
753.3755	22.00	-3.98	12118.394	4.0	25388.334	4.0
753.3860	28.00	-3.92	40484.282	2.0	53754.036	2.0
753.3867	22.00	-2.89	30060.328	4.0	43330.070	5.0
753.3880	17.00	-1.61	88272.720	.5	101542.440	1.5
753.3910	92.00	-1.15	3710.246	0.0	16983.566	0.0
753.3953	28.01	-3.89	122112.940	.5	135382.530	1.5
753.3999	25.01	-3.98	88198.070	6.0	101467.580	6.0
753.4039	24.01	-4.44	38315.000	2.5	51584.440	1.5
753.4595	24.00	-3.26	48661.590	3.0	61930.050	3.0
753.4606	18.01	-2.96	191974.530	1.5	205242.970	.5
753.4608	28.00	-2.10	44475.158	2.0	57743.596	3.0
753.4742	10.01	-4.53	305566.940	1.5	318835.140	2.5
753.4851	27.00	-3.91	35450.560	3.5	48716.570	2.5
753.4993	23.00	-3.67	24838.560	3.5	38106.320	2.5
753.5208	28.01	-2.98	99154.810	4.5	112422.190	5.5
753.5328	23.00	-3.51	19189.280	1.5	32456.450	1.5
753.5362	27.00	-4.35	33439.720	4.5	46706.830	3.5
753.5396	18.01	-4.22	170530.310	3.5	183797.360	2.5
753.5470	22.00	-3.33	35757.510	4.0	49024.430	3.0
753.5663	14.00	-2.02	49399.670	1.0	62666.250	1.0
753.5873	26.00	-4.03	40894.972	2.0	54161.182	3.0
753.6129	28.01	-4.67	121699.020	1.5	134964.780	1.5
753.6319	22.00	-4.03	29768.655	2.0	43034.080	1.0
753.6561	10.03	-4.52	511411.000	2.5	524676.000	1.5
753.6931	22.00	-2.82	28788.372	4.0	42052.720	3.0
753.7106	24.00	-4.97	36558.550	2.0	49822.590	2.0
753.7254	9.02	-3.57	376814.020	2.5	390077.800	2.5
753.7403	26.00	-4.56	32873.623	4.0	46137.140	3.0
753.7424	23.00	-7.89	9824.580	2.5	23088.060	1.5
753.7430	74.00	-2.08	18873.860	0.0	32140.962	0.0
753.7674	28.01	-.32	92325.850	3.5	105588.890	4.5
753.7737	23.00	-6.03	8578.520	2.5	21841.450	2.5
753.7771	24.00	-1.13	41409.030	2.0	54671.900	1.0
753.7899	26.00	-3.08	44551.325	3.0	57813.970	3.0
753.7924	22.00	-3.14	35577.140	2.0	48839.740	3.0
753.7965	22.00	-2.56	28638.832	2.0	41901.360	1.0
753.8059	14.00	-4.34	50499.838	2.0	63762.200	3.0
753.8197	22.00	-3.42	35652.950	3.0	48915.070	2.0
753.8485	26.00	-3.89	38995.717	1.0	52257.330	0.0
753.8498	22.01	-3.86	53554.900	2.5	66816.490	1.5
753.8572	7.01	-2.54	188909.170	1.0	202170.630	1.0
753.8868	56.01	-3.37	57390.930	0.0	70655.521	0.0
753.8879	25.00	-4.38	30411.740	.5	43672.660	.5
753.8884	22.00	-3.64	29971.078	4.0	43231.990	4.0
753.9230	57.00	-2.03	0.000	0.0	13263.954	0.0
753.9260	17.00	-2.44	88272.720	.5	101532.970	1.5
753.9340	13.02	-.91	195621.720	.5	208681.830	1.5
754.0181	24.00	-4.86	31049.330	6.0	44307.960	5.0
754.0414	24.00	-3.19	33040.100	2.0	46298.320	1.0
754.0426	20.02	-1.43	328090.990	2.0	341349.190	1.0
754.0439	26.00	-4.80	21999.132	4.0	35257.309	4.0
754.0620	40.00	-1.24	15002.299	0.0	28263.808	0.0
754.0966	8.01	-4.13	246028.950	3.5	259286.200	2.5
754.1217	18.00	-3.72	111818.090	1.0	125074.900	2.0
754.1342	28.01	-2.95	119913.330	4.5	133169.920	3.5
754.1353	19.00	-2.69	21026.580	.5	34283.150	1.5
754.1393	15.00	-2.55	66834.500	1.5	80091.000	.5
754.1420	62.01	-1.54	12663.231	0.0	25923.333	0.0
754.1495	26.01	-4.69	79439.300	3.5	92695.620	2.5
754.1548	26.00	-3.71	31805.059	3.0	45061.287	3.0
754.1570	19.00	-2.99	21026.580	.5	34282.770	.5
754.1592	12.00	-1.31	47841.119	0.0	61097.270	1.0
754.1824	22.00	-3.44	28702.768	3.0	41958.510	2.0
754.1939	26.00	-3.76	41130.620	1.0	54386.160	1.0
754.1939	28.01	-4.43	116732.510	2.5	129988.050	2.5
754.2020	45.00	.66	36618.514	0.0	49677.561	0.0
754.2201	24.00	-2.83	33113.270	4.0	46368.350	3.0
754.2252	24.00	-3.76	33934.880	3.0	47189.670	4.0
754.2457	28.01	-2.12	122821.630	5.5	136076.260	4.5
754.2525	18.00	-4.36	111818.090	1.0	125072.600	1.0
754.3466	12.00	-1.43	47644.414	1.0	61097.270	1.0
754.3466	12.00	-1.13	47844.414	1.0	61097.270	2.0
754.3537	28.00	-4.34	42621.046	3.0	55873.780	2.0
754.3589	23.02	-2.40	147127.000	2.5	160379.640	2.5
754.3601	23.00	-3.18	20812.990	1.5	34065.610	2.5
754.3806	26.01	-4.29	50212.930	2.5	63465.190	1.5
754.3914	23.00	-2.58	26344.940	4.5	39597.010	4.5
754.4023	26.00	-3.06	33765.291	2.0	47017.170	3.0
754.4107	28.01	-1.63	108548.610	1.5	121800.340	1.5
754.4312	24.00	-4.53	32097.360	6.0	45348.730	6.0
754.4346	27.00	-1.48	41225.760	4.5	54477.070	3.5
754.4590	40.00	-1.54	12663.231	0.0	25917.762	0.0
754.5332	23.00	-4.21	24992.880	3.5	38242.460	3.5
754.5360	7.01	-2.98	174212.030	2.0	187461.560	2.0
754.5549	28.00	-1.05	45281.152	3.0	58530.350	3.0
754.6191	7.00	-1.31	96787.650	1.5	110035.720	.5
754.6197	25.02	-2.13	218816.970	2.5	232065.030	2.5
754.6357	23.00	-5.90	8715.720	3.5	21963.500	3.5
754.6396	18.01	-1.74	191169.520	1.5	204417.230	1.5
754.6607	27.00	-3.89	41104.960	2.5	54352.300	3.5
754.6676	27.00	-2.72	41916.410	3.5	55165.630	2.5
754.6830	25.00	-4.38	30425.710	1.5	43672.660	.5
754.6835	18.01	-4.45	191974.530	1.5	205221.470	1.5
754.7073	17.00	-.28	72488.568	1.5	85735.091	1.5
754.7249	26.00	-3.80	36940.600	2.0	50186.614	2.0
754.7297	25.02	-4.16	218115.150	3.5	231361.280	2.5
754.7309	12.00	-2.61	47851.162	2.0	61097.270	1.0
754.7309	12.00	-1.60	47851.162	2.0	61097.270	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
754.7309	12.00	-.68	47851.162	2.0	61097.270	3.0
754.7320	63.00	-1.06	15324.929	0.0	28574.665	0.0
754.7405	26.02	-1.97	186454.890	5.0	199700.630	4.0
754.7482	22.00	-3.04	29986.185	3.0	43231.990	4.0
754.7707	27.00	-4.53	32430.590	5.5	45676.000	5.5
754.7716	28.00	-1.25	44565.100	3.0	57810.494	4.0
754.7884	26.00	-2.20	41130.620	1.0	54375.719	2.0
754.7975	24.01	-2.54	52298.120	3.5	65543.060	3.5
754.8146	29.01	-3.36	135958.460	1.0	149203.100	0.0
754.8824	24.00	-1.08	41575.100	3.0	54818.550	2.0
754.9310	90.00	-2.04	7178.519	0.0	20424.763	0.0
754.9816	18.00	-4.52	111818.090	1.0	125059.800	2.0
755.0050	27.00	-3.53	41041.430	3.5	54282.730	2.5
755.0055	25.00	-4.68	30354.210	3.5	43595.500	2.5
755.0101	28.01	-4.65	116893.980	2.5	130135.190	1.5
755.0226	9.01	-3.73	257267.300	1.0	270508.290	2.0
755.0272	23.00	-4.06	20789.130	2.5	34030.040	1.5
755.0291	22.00	-3.62	29907.273	2.0	43148.150	3.0
755.0392	8.02	-1.40	350026.100	0.0	363266.800	1.0
755.0460	74.00	-2.19	17986.627	0.0	31230.853	0.0
755.0620	30.02	-2.67	221143.700	3.0	234384.000	3.0
755.0728	25.02	-4.26	179152.090	3.5	192392.200	3.5
755.0740	13.02	-.65	195641.740	1.5	208881.630	2.5
755.0740	13.02	-1.61	195641.740	1.5	208881.830	1.5
755.0814	27.00	-3.75	33466.870	3.5	46706.630	3.5
755.0897	7.00	-.98	96864.020	2.5	110103.834	1.5
755.1081	26.00	-2.93	41018.029	2.0	54257.520	2.0
755.1401	28.01	-2.19	122837.330	4.5	136076.260	4.5
755.1436	28.01	-2.79	105861.190	2.5	119100.060	1.5
755.1460	40.00	-1.36	12663.231	0.0	25905.703	0.0
755.1624	28.01	-.99	117662.110	1.5	130900.650	2.5
755.1835	20.02	-3.10	360388.680	3.0	373626.850	2.0
755.1863	24.00	-4.07	35398.020	4.0	48636.140	3.0
755.1909	25.01	-4.12	89465.300	4.0	102703.340	4.0
755.2206	26.02	-4.57	200325.560	4.0	213563.080	5.0
755.2213	26.00	-4.72	40894.972	2.0	54132.480	1.0
755.2232	9.00	-.45	102680.435	1.5	115917.909	2.5
755.2434	23.00	-2.07	26004.220	2.5	39241.340	2.5
755.2491	24.00	-2.06	49453.940	4.0	62690.960	5.0
755.2526	28.00	-.73	45281.152	3.0	58518.110	4.0
755.2599	25.02	-3.82	179339.590	2.5	192576.420	2.5
755.2761	26.00	-2.48	40594.413	4.0	53830.960	3.0
755.3000	40.00	-3.04	4113.534	0.0	17353.306	0.0
755.3137	22.00	-3.15	29912.262	3.0	43148.150	3.0
755.3398	23.00	-4.58	15078.250	.5	28313.680	.5
755.3450	25.02	-4.62	195415.200	4.5	208650.540	3.5
755.3798	24.00	-4.44	36577.730	4.0	49812.460	3.0
755.3963	21.00	-.47	25724.720	3.5	38959.160	3.5
755.3963	27.00	-.90	31871.150	3.5	45105.590	3.5
755.4540	22.00	-4.43	29914.720	3.0	43148.150	3.0
755.4563	7.01	-3.94	188937.240	0.0	202170.630	1.0
755.4608	23.00	-.80	24770.620	.5	38003.930	1.5
755.4700	40.00	-2.28	4113.534	0.0	17350.327	0.0
755.4717	10.01	-3.39	279218.660	2.5	292451.780	1.5
755.4764	22.00	-2.80	28638.832	2.0	41871.870	2.0
755.4951	25.00	-4.10	30411.740	.5	43644.450	1.5
755.4968	8.01	-2.75	232796.270	2.5	246028.950	3.5
755.5505	8.01	-1.83	232536.060	1.5	245767.800	.5
755.5598	28.00	.21	31031.042	3.0	44262.619	2.0
755.6230	28.01	-.50	93390.060	2.5	106620.530	3.5
755.6370	72.00	-1.61.	16615.449	0.0	29849.317	0.0
755.6441	24.00	-4.14	30858.820	2.0	44088.920	1.0
755.6705	22.00	-2.78	28788.372	4.0	42018.010	5.0
755.6735	10.00	-4.87	158601.115	2.0	171830.700	1.0
755.6761	25.00	-4.68	35041.370	3.5	48270.910	2.5
755.6801	56.01	-2.25	57390.930	0.0	70624.043	0.0
755.6893	25.00	-4.79	34938.700	4.5	48168.010	4.5
755.7013	26.00	-2.93	40534.180	3.0	53763.280	3.0
755.7264	28.01	-4.04	122847.600	3.5	136076.260	4.5
755.7395	10.01	-3.37	279422.890	.5	292651.320	1.5
755.7670	45.00	.30	32101.693	0.0	45333.284	0.0
755.7691	14.00	-1.95	50566.397	1.0	63794.310	2.0
755.7808	22.00	-2.18	28896.062	5.0	42123.770	6.0
755.8081	25.01	-4.70	53781.700	3.0	67008.930	3.0
755.8142	14.00	-2.20	50566.397	1.0	63793.520	1.0
755.8292	23.00	-2.96	26171.960	4.5	39398.820	3.5
755.8450	40.00	-1.47	12421.258	0.0	25651.484	0.0
755.8727	29.01	-2.27	135135.600	1.0	148361.700	1.0
755.8967	26.01	-8.93	25787.600	1.5	39013.280	1.5
755.8971	22.00	-3.48	29855.248	1.0	43080.920	2.0
755.9053	7.01	-4.19	174212.030	2.0	187437.560	1.0
755.9212	28.01	-3.65	122175.420	2.5	135400.670	3.5
755.9447	25.00	-4.38	30419.610	2.5	43644.450	1.5
755.9532	26.00	-2.93	40842.130	3.0	54066.821	2.0
755.9544	26.02	-2.54	186378.940	4.0	199603.610	4.0
755.9610	44.00	.38	29762.625	0.0	42990.621	0.0
755.9635	28.00	-1.37	44565.100	3.0	57789.611	4.0
755.9647	27.00	-2.51	33150.680	1.5	46375.170	1.5
755.9675	26.00	-1.89	40842.130	3.0	54066.570	4.0
755.9790	23.00	-3.29	30694.340	3.5	43918.580	2.5
755.9841	26.01	-3.23	72238.630	2.5	85462.780	3.5
755.9910	24.01	-3.18	55081.700	1.5	68305.730	1.5
756.0090	40.00	-1.56	14276.381	0.0	27503.737	0.0
756.0150	62.01	-1.73	13469.806	0.0	26697.057	0.0
756.0310	40.00	-1.72	14921.641	0.0	28148.612	0.0
756.0424	24.00	-3.72	33762.740	6.0	46985.870	5.0
756.0532	12.00	-1.65	47957.028	2.0	61179.970	2.0
756.0532	12.00	-.56	47957.028	2.0	61179.970	3.0
756.0532	12.00	-3.51	47957.028	2.0	61179.970	3.0
756.0541	12.00	-3.02	47957.045	3.0	61179.970	2.0
756.0541	12.00	-1.69	47957.045	3.0	61179.970	3.0
756.0541	12.00	-1.89	47957.045	3.0	61179.970	3.0
756.0541	12.00	-.42	47957.045	3.0	61179.970	4.0
756.0548	12.00	-.75	47957.056	1.0	61179.970	2.0
756.0561	10.01	-2.64	304440.240	.5	317663.130	1.5
756.0745	28.01	-3.83	98561.220	2.5	111783.790	3.5
756.1025	27.00	-2.49	32654.500	2.5	45876.580	2.5
756.1025	24.00	-4.31	30858.820	2.0	44080.900	2.0
756.1139	24.01	-3.41	38362.560	1.5	51584.440	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
756.1188	17.00	-4.87	84132.262	2.5	97354.057	1.5
756.1351	18.00	-3.16	111818.090	1.0	125039.600	1.0
756.1397	22.00	-3.51	35503.400	0.0	48724.830	1.0
756.1419	24.00	-3.72	35618.510	1.0	48839.900	1.0
756.1757	28.02	-4.81	121802.800	3.0	135023.600	3.0
756.2020	29.01	.01	110084.290	1.0	123304.630	1.0
756.2120	40.00	-2.71	5000.766	0.0	18224.571	0.0
756.2182	28.00	-2.59	42653.723	2.0	55873.780	2.0
756.2335	22.01	-4.01	53596.700	1.5	66816.490	1.5
756.2398	24.00	-3.68	35807.900	2.0	49027.580	2.0
756.2434	28.00	-4.10	40484.282	2.0	53703.899	1.0
756.2930	72.00	-2.16	6533.259	0.0	19755.648	0.0
756.2935	25.00	-4.48	30425.710	1.5	43644.450	1.5
756.2970	64.00	-2.08	161.315	0.0	13363.634	0.0
756.3008	26.00	-2.47	38995.717	1.0	52214.330	1.0
756.3090	28.00	-2.10	42954.234	2.0	56172.704	3.0
756.3095	28.01	-3.64	122812.970	3.5	136031.430	2.5
756.3130	39.00	-.63	19035.175	0.0	32257.214	0.0
756.3513	26.01	-4.99	80177.870	1.5	93395.600	2.5
756.3531	17.01	-.55	161634.900	2.0	174852.600	3.0
756.3657	15.00	-2.07	66544.120	2.5	79761.600	2.5
756.3666	28.00	-1.76	42656.317	1.0	55873.780	2.0
756.3674	9.01	-2.88	257290.840	2.0	270508.290	2.0
756.3897	24.00	-1.77	49453.940	4.0	62671.000	4.0
756.3902	23.00	-2.98	20812.990	1.5	34030.040	1.5
756.4183	29.01	-2.72	123556.640	2.0	136773.200	1.0
756.4220	72.00	.58	34602.076	0.0	47822.210	0.0
756.4297	26.02	-3.45	186378.940	4.0	199595.300	3.0
756.4457	28.01	-3.73	95332.530	2.5	108548.610	1.5
756.4517	12.00	-1.44	47844.414	1.0	61060.390	2.0
756.4846	13.01	-1.97	134917.300	1.0	148132.700	2.0
756.4933	27.00	-.56	39649.160	3.5	52864.410	4.5
756.5059	29.01	-1.99	137034.970	3.0	150250.000	2.0
756.5196	25.01	-4.23	89465.300	4.0	102680.090	5.0
756.5250	28.00	-4.80	14728.847	0.0	27943.543	1.0
756.5322	23.00	-3.45	24789.360	.5	38003.930	1.5
756.5487	22.00	-3.55	28702.768	3.0	41917.050	4.0
756.5488	29.01	-3.60	115639.020	2.0	128853.300	2.0
756.5665	28.01	-3.48	102742.740	1.5	115956.710	2.5
756.5734	24.00	-2.20	35813.730	3.0	49027.580	2.0
756.5809	8.01	-1.87	232602.570	.5	245816.290	1.5
756.5980	26.00	-2.87	44760.739	1.0	57974.160	2.0
756.6100	64.00	-1.35	11775.998	0.0	24992.847	0.0
756.6164	24.00	-4.07	48824.500	4.0	62037.600	5.0
756.6209	28.01	-4.82	118442.810	1.5	131655.830	.5
756.6261	26.01	-3.40	66672.390	3.5	79885.320	2.5
756.6272	28.01	-4.49	119656.250	3.5	132869.160	3.5
756.6272	9.02	-1.70	426989.570	3.5	440202.480	2.5
756.6490	28.01	-4.89	121120.880	5.5	134333.410	6.5
756.7212	28.01	-4.97	121125.410	4.5	134336.680	5.5
756.7267	26.00	-4.48	36975.640	3.0	50186.814	2.0
756.7367	22.00	-2.08	28896.062	5.0	42107.060	4.0
756.7377	28.00	-1.30	45418.858	2.0	58629.840	2.0
756.7543	28.00	-1.13	45418.858	2.0	58629.550	3.0
756.7750	26.01	-3.65	54063.530	.5	67273.860	1.5
756.7756	22.00	-1.91	32857.721	3.0	46068.040	4.0
756.7767	23.02	-.52	147169.340	3.5	160379.640	2.5
756.8381	12.00	-1.92	47851.162	2.0	61060.390	2.0
756.8477	20.02	-.35	331048.860	0.0	344257.920	1.0
756.8569	29.01	-2.52	115569.200	5.0	128778.100	4.0
756.8917	26.00	-.87	34547.192	2.0	47755.485	3.0
756.9074	24.00	-3.23	49453.940	4.0	62661.960	3.0
756.9230	73.00	-2.32	17260.709	0.0	30472.092	0.0
756.9360	27.00	-3.90	39649.160	3.5	52856.680	3.5
756.9452	22.00	-3.12	31373.801	3.0	44581.160	2.0
756.9496	18.00	-4.78	106237.597	2.0	119444.880	2.0
756.9553	14.00	-2.24	50566.397	1.0	63773.580	2.0
756.9595	28.01	-4.03	122175.420	2.5	135382.530	1.5
756.9873	17.00	-2.48	84132.262	2.5	97338.887	2.5
756.9910	74.00	-1.89	17986.627	0.0	31196.624	0.0
756.9979	28.01	-4.98	120002.860	3.5	133209.300	2.5
757.0157	23.00	-4.08	20812.990	1.5	34019.120	1.5
757.0547	26.01	-4.87	86462.750	3.5	99666.200	3.5
757.0814	22.00	-3.81	29829.097	0.0	43034.080	1.0
757.0950	62.01	-1.54	12743.888	0.0	25952.270	0.0
757.1017	24.00	-1.20	41782.190	4.0	54986.820	3.0
757.1453	28.01	-4.88	119665.290	2.5	132869.160	3.5
757.1530	42.00	-1.11	27181.584	0.0	40386.954	0.0
757.1752	14.00	-3.35	48102.323	2.0	61305.670	1.0
757.1975	28.00	-1.12	43654.974	3.0	56857.933	4.0
757.2534	10.00	-2.91	158601.115	2.0	171803.100	2.0
757.2588	22.00	-4.87	18287.560	4.0	31489.451	4.0
757.2640	42.00	-.96	26616.982	0.0	39822.416	0.0
757.3382	9.00	-.46	102840.376	.5	116040.883	1.5
757.3662	22.00	-2.27	28788.372	4.0	41988.390	3.0
757.3754	26.00	-4.14	32133.977	2.0	45333.634	2.0
757.3764	23.00	-2.12	20830.200	.5	34030.040	1.5
757.3919	22.00	-4.65	27887.740	3.0	41087.310	3.0
757.4022	28.01	-3.50	121042.570	1.5	134241.960	.5
757.4043	28.00	-.30	30912.838	1.0	44112.192	1.0
757.4126	24.00	-3.64	35640.690	0.0	48839.900	1.0
757.4402	9.02	-4.72	376879.070	3.5	390077.800	2.5
757.4418	21.00	-2.32	24656.800	1.5	37855.500	2.5
757.4580	41.00	-1.08	11292.053	0.0	24494.105	0.0
757.4786	24.00	-1.67	31393.400	5.0	44591.460	5.0
757.4821	16.05	.75	583679.000	1.5	596877.000	2.5
757.4821	16.05	-.21	583679.000	1.5	596877.000	1.5
757.5078	29.01	-3.90	117747.450	3.0	130945.600	2.0
757.5124	29.01	-1.92	123556.640	2.0	136754.110	2.0
757.5288	10.00	-3.82	158601.115	2.0	171798.300	1.0
757.5354	22.00	-3.00	35527.760	1.0	48724.830	1.0
757.5543	27.00	-3.85	41968.890	2.5	55165.630	2.5
757.5555	23.00	-2.19	25930.510	1.5	39127.230	1.5
757.5635	22.00	-3.96	35527.760	1.0	48724.340	2.0
757.5761	15.00	-3.64	66813.040	1.5	80009.400	.5
757.5807	20.01	-2.07	78164.720	4.5	91361.000	4.5
757.5807	20.01	-.34	78164.720	4.5	91361.000	5.5
757.5807	20.01	-.43	78164.720	3.5	91361.000	4.5
757.6433	24.00	-1.39	49466.770	2.0	62661.960	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
757.6606	23.02	-1.64	147127.000	2.5	160321.890	2.5
757.6709	20.02	-.70	360207.160	2.0	373401.870	3.0
757.6724	17.00	-2.79	84648.100	2.5	97842.783	1.5
757.6841	15.00	-4.25	67113.820	2.5	80308.300	2.5
757.6937	26.00	-4.24	34636.820	2.0	47831.132	2.0
757.6950	72.00	-1.52	18228.600	0.0	31426.523	0.0
757.7180	26.02	-.70	188013.400	4.0	201207.290	4.0
757.7220	45.00	.20	32101.693	0.0	45299.145	0.0
757.8090	62.01	-1.40	14437.696	0.0	27633.633	0.0
757.8420	23.00	-3.76	15270.420	1.5	28462.150	2.5
757.8639	24.00	-4.83	31055.350	5.0	44246.700	4.0
757.8730	75.00	-1.98	15647.559	0.0	28842.382	0.0
757.8748	23.00	-.41	24915.160	1.5	38106.320	2.5
757.8793	14.00	-1.81	50602.440	0.0	63793.520	1.0
757.8943	24.00	-3.94	33934.880	3.0	47125.700	3.0
757.9012	26.00	-2.39	39969.830	3.0	53160.530	3.0
757.9035	29.01	.28	110365.980	2.0	123556.640	2.0
757.9078	10.00	-3.82	158601.115	2.0	171791.700	2.0
757.9139	28.01	-2.49	121190.340	4.5	134380.820	3.5
757.9254	28.01	-4.70	119656.250	3.5	132846.530	3.5
757.9386	24.00	-4.35	33935.650	2.0	47125.700	3.0
757.9580	42.00	-1.06	27584.872	0.0	40778.215	0.0
757.9759	18.00	-1.43	111667.870	0.0	124857.270	1.0
757.9851	29.01	-.20	108335.430	2.0	121524.670	3.0
758.0035	23.00	-2.98	20830.200	.5	34019.120	1.5
758.0179	26.02	-4.54	189011.840	4.0	202200.510	3.0
758.0408	22.00	-1.50	17995.750	0.0	31184.021	1.0
758.0447	14.00	-2.19	49188.617	2.0	62376.820	3.0
758.0518	24.01	-3.08	38396.360	.5	51584.440	1.5
758.0621	29.01	-3.78	115665.400	1.0	128853.300	2.0
758.0765	12.01	-2.27	103689.890	3.5	116877.540	3.5
758.0765	12.01	-.73	103689.890	3.5	116877.540	4.5
758.0765	12.01	-.84	103689.890	2.5	116877.540	3.5
758.0782	28.01	-4.07	101754.800	2.5	114942.420	1.5
758.1133	20.01	-.88	74484.970	.5	87671.930	1.5
758.1202	23.00	-3.08	20789.130	2.5	33976.020	1.5
758.1259	22.00	-2.26	35652.950	3.0	48839.740	3.0
758.1372	26.00	-4.54	40207.120	3.0	53393.715	4.0
758.1507	14.01	-4.20	114177.400	3.5	127363.760	3.5
758.1507	14.01	-2.66	114177.400	4.5	127363.760	3.5
758.1507	14.01	-2.77	114177.400	3.5	127363.760	2.5
758.1645	25.01	-2.71	89519.250	2.0	102705.370	3.0
758.1714	25.00	-4.69	35114.980	2.5	48300.980	1.5
758.1780	10.00	-2.73	158601.115	2.0	171787.000	3.0
758.1887	17.01	-1.13	161634.900	2.0	174820.600	2.0
758.1896	15.00	-2.78	67113.820	2.5	80299.500	1.5
758.2116	26.00	-2.70	39969.830	3.0	53155.130	4.0
758.2266	25.00	-3.65	51638.170	2.5	64823.210	2.5
758.2335	24.00	-3.74	49477.040	2.0	62661.960	3.0
758.2658	22.00	-2.66	28638.832	2.0	41823.190	3.0
758.2668	28.01	-4.05	116087.380	4.5	129271.720	3.5
758.2766	26.02	-1.57	188109.580	3.0	201293.750	2.0
758.2880	74.00	-1.15	28068.817	0.0	41256.419	0.0
758.3112	14.00	-4.27	48264.292	3.0	61447.860	2.0
758.3210	41.00	-1.68	12905.203	0.0	26092.231	0.0
758.3347	23.01	-4.59	44159.430	2.0	57342.590	2.0
758.3456	26.01	-4.76	49506.990	1.5	62689.960	2.5
758.3456	27.00	-4.83	41982.660	1.5	55165.630	2.5
758.3550	10.00	-3.21	159379.993	0.0	172562.800	1.0
758.3560	29.01	-4.41	116576.810	0.0	129759.600	1.0
758.3610	55.00	-4.06	14499.257	0.0	27685.589	0.0
758.3797	26.00	-2.06	24338.766	3.0	37521.144	2.0
758.3910	63.00	.38	15486.244	0.0	28672.054	0.0
758.4158	24.00	-3.49	33906.650	1.0	47088.400	1.0
758.4452	28.01	-4.40	119665.290	2.5	132846.530	3.5
758.4544	28.01	-5.00	119833.000	5.5	133014.080	5.5
758.4734	25.00	-2.29	44978.960	1.5	58159.730	2.5
758.4946	25.02	-2.75	218180.900	1.5	231361.280	2.5
758.5002	22.00	-2.72	27907.026	2.0	41087.310	3.0
758.5096	26.01	.36	103653.030	3.5	116833.150	4.5
758.5263	24.00	-1.57	49466.770	2.0	62646.600	2.0
758.5281	13.01	-2.46	134917.300	1.0	148097.100	0.0
758.5510	28.01	-2.69	121115.590	1.5	134294.990	2.5
758.5770	62.01	-1.23	13953.751	0.0	27136.328	0.0
758.5990	26.00	-.84	34782.406	5.0	47960.973	4.0
758.6031	28.00	-2.21	44565.100	3.0	57743.596	3.0
758.6057	28.01	-.29	117763.910	1.5	130942.360	1.5
758.6092	28.01	-4.20	117763.910	1.5	130942.300	1.5
758.6449	27.00	-4.88	41104.960	2.5	54282.730	2.5
758.6592	26.00	-4.80	37521.144	2.0	50698.666	2.0
758.6691	28.01	-4.87	117573.680	4.5	130751.030	5.5
758.6725	27.00	-2.79	23152.570	3.5	36329.660	2.5
758.6754	26.01	-4.04	67000.630	2.5	80177.870	1.5
758.6775	20.00	-.77	38219.118	2.0	51396.320	3.0
758.6851	22.00	-4.59	29971.078	4.0	43148.150	3.0
758.6899	20.00	-.75	38192.392	1.0,	51369.380	2.0
758.6999	28.00	-4.82	36600.805	2.0	49777.619	3.0
758.7324	29.01	-2.12	137073.750	2.0	150250.000	2.0
758.7468	23.02	-2.06	147400.620	4.5	160576.620	3.5
758.7531	25.00	-4.43	30419.610	2.5	43595.500	2.5
758.7554	7.00	-1.47	96750.810	1.5	109926.661	2.5
758.7660	60.01	-2.14	9598.245	0.0	22777.539	0.0
758.7944	26.00	-3.39	38175.332	3.0	51350.505	4.0
758.8101	15.00	-3.82	66834.500	1.5	80009.400	.5
758.8200	64.00	-1.02	12421.258	0.0	25599.614	0.0
758.6270	26.00	-2.04	40594.413	4.0	53769.020	4.0
758.8764	23.00	-3.84	24830.180	1.5	38003.930	1.5
758.8810	27.00	-4.45	20500.710	1.5	33674.380	2.5
758.8823	22.00	-2.91	29907.273	2.0	43080.920	2.0
758.9081	28.01	-1.52	92325.850	3.5	105499.050	3.5
758.9144	28.01	-4.59	122812.970	3.5	135986.060	3.5
758.9323	18.01	-.57	147875.860	2.5	161048.640	1.5
758.9369	13.01	-2.45	134917.300	1.0	148090.000	1.0
758.9369	13.01	-1.98	134917.300	1.0	148090.000	2.0
758.9554	12.01	-2.60	103705.660	4.5	116878.040	4.5
758.9554	12.01	-.87	103705.660	4.5	116878.040	5.5
758.9554	12.01	-.96	103705.660	3.5	116878.040	4.5
758.9715	16.01	-.88	114804.110	2.5	127976.210	1.5
758.9967	22.00	-3.42	30060.328	4.0	43231.990	4.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
758.9996	26.00	-6.66	12968.552	2.0	26140.164	3.0
759.0002	13.01	-3.90	106918.200	1.0	120089.600	1.0
759.0192	26.00	-3.12	47377.909	4.0	60549.180	5.0
759.0296	22.00	-4.81	28772.860	0.0	41943.950	1.0
759.0504	22.01	-4.47	53596.700	1.5	66767.430	.5
759.0540	92.00	-1.91	5726.684	0.0	18900.977	0.0
759.0579	27.00	-2.88	16778.160	2.5	29948.760	2.5
759.0626	28.00	-3.69	43933.428	2.0	57103.946	3.0
759.0653	10.01	-2.44	290803.820	.5	303974.290	1.5
759.0850	24.00	-4.01	31364.330	3.0	44534.460	4.0
759.1000	25.00	-4.57	30354.210	3.5	43524.060	3.5
759.1046	25.00	-3.86	30425.710	1.5	43595.500	2.5
759.1161	12.01	-4.53	103705.660	3.5	116875.250	3.5
759.1161	12.01	-2.99	103705.660	4.5	116875.250	3.5
759.1161	12.01	-3.10	103705.660	3.5	116875.250	2.5
759.1178	24.00	-4.76	49477.040	2.0	62646.600	2.0
759.1236	23.00	-.73	24770.620	.5	37940.080	.5
759.1322	28.00	-1.25	45418.858	2.0	58588.168	3.0
759.1442	22.00	-2.39	28702.768	3.0	41871.870	2.0
759.1660	42.00	-2.00	20003.065	0.0	33175.415	0.0
759.1698	22.00	-3.60	29912.262	3.0	43080.920	2.0
759.1778	27.00	-4.39	34196.210	1.5	47364.730	1.5
759.1882	23.01	-2.80	36425.070	4.0	49593.410	5.0
759.2487	9.02	-4.20	440202.480	2.5	453369.770	1.5
759.2620	28.01	-2.18	120002.860	3.5	133169.920	3.5
759.2740	14.00	-2.23	50189.389	2.0	63356.240	2.0
759.2759	2.01	.C2	421353.130	0.0	434523.573	0.0
759.2897	28.00	-3.22	43654.974	3.0	56821.553	3.0
759.2960	72.00	-.93	23148.708	0.0	36316.802	0.0
759.3116	22.00	-4.76	29914.720	3.0	43080.920	2.0
759.3347	17.01	-.82	161654.800	1.0	174820.600	2.0
759.3675	8.01	-1.41	232602.570	.5	245767.600	.5
759.3800	26.00	-4.90	20874.482	3.0	34039.495	4.0
759.4188	28.01	-3.14	122812.970	3.5	135977.310	4.5
759.4253	26.00	-4.16	40404.492	1.0	53568.720	2.0
759.4304	24.00	-3.78	35398.020	4.0	48562.160	4.0
759.4840	12.00	-1.35	47841.119	0.0	61004.330	1.0
759.4944	23.00	-2.94	20812.990	1.5	33976.020	1.5
759.4961	13.01	-2.98	134181.200	4.0	147344.200	3.0
759.4961	13.01	-3.56	134181.200	4.0	147344.200	3.0
759.4961	13.01	-4.90	134181.200	3.0	147344.200	3.0
759.5070	92.00	-1.31	10566.135	0.0	23732.571	0.0
759.5160	42.00	-1.05	25810.406	0.0	38976.666	0.0
759.5222	20.00	-1.92	33317.264	0.0	46479.813	1.0
759.5510	26.02	-2.47	188131.700	1.0	201293.750	2.0
759.5559	22.00	-2.89	29986.185	3.0	43148.150	3.0
759.5590	28.01	-3.56	119656.250	3.5	132818.160	4.5
759.5631	23.01	-5.18	26839.820	3.0	40001.660	2.0
759.5935	14.00	-2.93	49188.617	2.0	62349.930	2.0
759.6185	23.02	-.55	146983.380	2.5	160144.260	1.5
759.6318	28.01	-4.32	103663.500	1.5	116824.150	2.5
759.6364	28.00	-3.07	48671.900	3.0	61832.470	4.0
759.6416	25.00	-4.68	38008.700	5.5	51169.180	5.5
759.6520	22.00	-4.70	34947.120	1.0	48107.420	2.0
759.6658	28.01	-3.86	100592.980	3.5	113753.040	4.5
759.6742	12.00	-1.48	47844.414	1.0	61004.330	1.0
759.6742	12.00	-1.17	47844.414	1.0	61004.330	2.0
759.6918	23.00	-4.26	19189.280	1.5	32346.890	.5
759.6920	17.00	-1.83	84648.100	2.5	97807.707	2.5
759.7070	20.00	-.21	38192.392	1.0	51351.740	1.0
759.7305	14.00	-3.30	48264.292	3.0	61423.230	3.0
759.7559	26.02	-4.87	166421.330	4.0	179579.830	5.0
759.7778	28.01	-4.84	121178.560	3.5	134336.680	4.5
759.8281	23.00	-1.44	18805.050	.5	31962.300	.5
759.8500	8.01	-1.20	232745.980	1.5	245902.850	2.5
759.8714	24.00	-2.11	31377.960	4.0	44534.460	4.0
759.8962	25.02	-2.94	218596.690	5.5	231752.760	5.5
759.9384	8.01	-.96	232747.510	2.5	245902.850	2.5
759.9407	8.01	-4.03	252607.700	4.5	265763.000	3.5
759.9644	25.01	-3.27	62564.700	1.0	75719.590	1.0
759.9725	28.01	-4.51	123434.600	4.5	136589.350	3.5
760.0074	17.00	-1.44	84688.637	.5	97842.783	1.5
760.0096	22.00	-1.34	33090.492	1.0	46244.600	2.0
760.0100	8.01	-1.92	252608.900	3.5	265763.000	3.5
760.0279	27.00	-4.70	41104.960	2.5	54258.750	2.5
760.0314	23.00	-3.29	20812.990	1.5	33966.720	.5
760.0563	8.01	-1.94	252607.700	4.5	265761.000	4.5
760.0639	12.00	-2.65	47851.162	2.0	61004.330	1.0
760.0639	12.00	-1.65	47851.162	2.0	61004.330	2.0
760.0639	12.00	-.73	47851.162	2.0	61004.330	3.0
760.0658	26.00	-2.67	40594.413	4.0	53747.547	3.0
760.0695	25.00	-4.90	35165.050	1.5	48316.120	.5
760.0724	28.01	-3.84	121227.800	2.5	134380.820	3.5
760.0765	26.02	-1.16	188013.400	4.0	201166.350	3.0
760.0794	24.00	-2.26	49538.060	5.0	62690.960	5.0
760.1094	15.00	-4.27	66544.120	2.5	79696.500	1.5
760.1123	22.00	-4.93	28791.620	1.0	41943.950	1.0
760.1256	8.01	-2.80	252608.900	3.5	265761.000	4.5
760.1314	24.00	-3.90	48824.500	4.0	61976.500	4.0
760.1331	20.01	-.63	74521.750	1.5	87673.720	2.5
760.1730	24.00	-1.38	49519.720	3.0	62671.000	4.0
760.1828	26.02	-3.52	188142.640	2.0	201293.750	2.0
760.1840	42.00	-.88	27262.242	0.0	40416.952	0.0
760.1900	10.00	-3.16	158601.115	2.0	171752.100	1.0
760.2007	17.01	-2.17	161634.900	2.0	174785.700	1.0
760.2054	23.00	-3.08	24789.360	.5	37940.080	.5
760.2318	20.00	-.C3	38219.118	2.0	51369.380	2.0
760.2366	20.01	-1.58	74521.750	1.5	87671.930	1.5
760.2457	12.00	-1.72	47957.028	2.0	61107.050	2.0
760.2457	12.00	-.63	47957.028	2.0	61107.050	3.0
760.2457	12.00	-3.55	47957.028	2.0	61107.050	3.0
760.2467	12.00	-3.09	47957.045	3.0	61107.050	2.0
760.2467	12.00	-1.76	47957.045	3.0	61107.050	3.0
760.2467	12.00	-1.96	47957.045	3.0	61107.050	3.0
760.2467	12.00	-.49	47957.045	3.0	61107.050	4.0
760.2473	12.00	-.82	47957.056	1.0	61107.050	2.0
760.2522	26.00	-2.82	44664.061	2.0	57613.970	3.0
760.2557	28.01	-3.19	120903.200	3.5	134053.050	2.5
760.2950	76.00	-1.73	15082.956	0.0	28235.745	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
760.3054	8.01	-2.28	232753.860	3.5	245902.850	2.5
760.3511	28.01	.54	126857.970	5.5	140006.170	4.5
760.3750	60.01	-2.47	7420.492	0.0	20571.698	0.0
760.3806	22.00	-2.62	35577.140	2.0	48724.630	1.0
760.3979	25.01	-2.78	62572.200	2.0	75719.590	1.0
760.4089	22.00	-2.48	35577.140	2.0	48724.340	2.0
760.4124	19.00	-1.86	21534.700	2.5	34681.840	1.5
760.4141	28.01	-3.31	122812.970	3.5	135960.080	4.5
760.4268	27.00	-2.64	43398.620	3.5	56545.510	2.5
760.4274	21.00	-1.91	25724.720	3.5	38871.600	2.5
760.4546	17.00	-2.11	85244.330	.5	98390.740	.5
760.4630	26.00	-3.16	44551.325	3.0	57697.590	4.0
760.4632	10.01	-.86	290371.950	2.5	303518.210	1.5
760.4679	25.00	-3.01	45013.550	2.5	58159.730	2.5
760.4997	27.00	-1.64	23184.230	2.5	36329.860	2.5
760.5211	18.01	-3.42	170530.310	3.5	183675.570	3.5
760.5318	26.00	-1.66	40594.413	4.0	53739.488	5.0
760.5454	19.00	-2.81	21537.000	1.5	34681.840	1.5
760.5454	19.00	-2.11	21537.000	1.5	34681.840	.5
760.5475	14.00	-3.55	47351.554	2.0	60496.358	2.0
760.5506	27.00	-4.00	33945.900	2.5	47090.650	2.5
760.5621	28.00	-6.48	13521.352	2.0	26665.903	3.0
760.5998	8.02	-.92	350122.900	1.0	363266.600	1.0
760.6160	13.00	-1.96	32949.804	.5	46093.424	1.5
760.6224	27.00	-1.69	32733.070	3.5	45876.580	2.5
760.6299	23.01	-2.49	36425.070	4.0	49568.450	3.0
760.6363	27.00	-1.74	32781.710	2.5	45924.980	3.5
760.6430	26.00	-2.01	41018.029	2.0	54161.182	3.0
760.6565	24.00	-3.92	33816.060	4.0	46958.980	5.0
760.6959	24.00	-1.11	49519.720	3.0	62661.960	3.0
760.7150	40.00	-1.88	5000.766	0.0	18146.294	0.0
760.7175	9.00	-.44	104731.050	1.5	117872.916	1.5
760.7289	27.00	-4.29	41225.760	4.5	54367.430	5.5
760.7596	9.02	-4.47	440202.480	2.5	453343.620	2.5
760.7642	24.00	-2.99	31393.400	5.0	44534.460	4.0
760.7781	24.00	-3.67	33906.650	1.0	47047.470	2.0
760.7879	26.01	-4.79	86547.550	2.5	99688.200	3.5
760.7989	28.01	-4.45	121115.590	1.5	134256.050	2.5
760.8302	28.01	-3.89	121240.900	3.5	134380.820	3.5
760.8590	72.00	.20	31779.063	0.0	44922.103	0.0
760.8608	10.01	-3.02	280947.100	1.5	294086.490	1.5
760.8777	28.01	-2.37	121115.590	1.5	134254.690	1.5
760.8904	55.00	-1.47	11178.270	0.0	24320.767	0.0
760.8985	7.01	-4.19	190120.240	1.0	203258.980	2.0
760.9014	18.01	-2.25	190592.170	1.5	203730.860	1.5
760.9160	92.00	-1.42	7259.177	0.0	20401.232	0.0
760.9395	55.00	-2.94	14499.257	0.0	27640.906	0.0
760.9879	20.00	.21	38259.124	3.0	51396.320	3.0
761.0046	22.00	-4.87	28791.620	1.0	41926.528	2.0
761.0092	25.02	-4.29	179228.690	1.5	192365.520	1.5
761.0144	28.01	-.97	117763.910	1.5	130900.650	2.5
761.0196	21.00	-4.50	11520.150	1.5	24656.800	.5
761.0196	21.00	-5.13	11520.150	1.5	24656.800	1.5
761.0236	28.01	-4.96	109038.840	1.5	122175.420	2.5
761.0271	23.00	-3.42	20830.200	.5	33966.720	.5
761.0271	27.00	-2.32	21215.900	.5	34352.420	1.5
761.0273	26.00	-3.96	33765.291	2.0	46901.808	1.0
761.0332	26.00	-2.60	40257.300	5.0	53393.715	4.0
761.0480	56.00	.08	22906.736	0.0	36046.512	0.0
761.0653	24.00	-2.67	49538.060	5.0	62673.920	6.0
761.0830	40.00	-2.96	322.630	0.0	13461.601	0.0
761.0834	14.00	-2.45	47351.554	2.0	60487.103	1.0
761.0868	14.00	-4.17	49850.830	2.0	62986.320	2.0
761.0891	23.00	-.69	29418.170	3.5	42553.620	4.5
761.1024	28.01	-4.96	121192.320	3.5	134327.540	3.5
761.1036	13.01	-2.19	134917.300	1.0	148052.500	1.0
761.1077	14.00	-3.71	49850.830	2.0	62985.960	1.0
761.1221	24.00	-3.11	35501.260	3.0	48636.140	3.0
761.1534	25.01	-3.70	89571.030	3.0	102705.370	3.0
761.1557	24.00	-3.70	33040.100	2.0	46174.400	3.0
761.1656	28.01	-4.13	121115.590	1.5	134249.720	1.5
761.1780	64.00	-1.17	11211.395	0.0	24348.927	0.0
761.1848	8.02	-.70	367952.200	1.0	381086.000	1.0
761.1859	28.01	-3.51	100619.260	4.5	113753.040	4.5
761.1890	75.00	-1.97	19357.805	0.0	32495.147	0.0
761.2021	29.01	-2.51	137649.100	2.0	150782.600	2.0
761.2080	40.00	-1.50	14276.381	0.0	27413.395	0.0
761.2102	6.00	-3.04	70743.950	1.0	83877.310	1.0
761.2346	24.00	-3.53	49538.060	5.0	62671.000	4.0
761.2357	14.02	.58	214532.170	1.0	227665.090	2.0
761.2530	20.00	-.70	38219.118	2.0	51351.740	1.0
761.2711	25.01	-2.54	89571.030	3.0	102703.340	4.0
761.2940	44.00	-.18	30891.830	0.0	44027.360	0.0
761.2940	57.01	-3.78	967.890	0.0	14103.420	0.0
761.3221	28.01	-3.76	122812.970	3.5	135944.400	3.5
761.3494	23.00	-1.99	25111.500	4.5	38242.460	3.5
761.3528	17.01	-1.18	161654.800	1.0	174785.700	1.0
761.3621	28.01	-3.48	115739.150	4.5	128869.890	5.5
761.3650	27.00	-3.67	41225.760	4.5	54356.450	4.5
761.3766	10.01	-4.98	292451.780	1.5	305582.270	.5
761.3940	62.01	-1.95	11695.340	0.0	24829.145	0.0
761.3941	22.00	-.86	33114.412	2.0	46244.600	2.0
761.4110	74.00	-1.68	19680.435	0.0	32813.946	0.0
761.4135	22.00	-2.46	24694.895	4.0	37824.748	4.0
761.4305	26.01	-3.73	72043.210	1.5	85172.770	.5
761.4577	22.00	-1.22	18061.540	1.0	31190.631	2.0
761.4820	13.00	-1.70	32965.643	1.5	46094.316	2.5
761.4902	22.00	-3.79	26657.409	4.0	39785.940	4.0
761.5068	26.00	-3.82	21715.735	5.0	34843.980	6.0
761.5164	28.00	-2.03	48715.200	4.0	61843.280	5.0
761.5338	13.00	-2.65	32965.643	1.5	46093.424	1.5
761.5472	17.00	-2.37	84132.262	2.5	97259.811	1.5
761.5477	28.01	-3.03	102742.740	1.5	115870.280	2.5
761.5819	26.00	-4.06	40534.180	3.0	53661.130	3.0
761.5848	26.00	-1.93	41130.620	1.0	54257.520	2.0
761.5854	10.01	-3.42	279324.890	1.5	292451.780	1.5
761.5860	24.00	-1.31	49519.720	3.0	62646.600	2.0
761.5902	22.00	-3.54	29907.273	2.0	43034.080	1.0
761.6057	27.00	-3.52	41225.760	4.5	54352.300	3.5
761.6191	27.00	-3.09	39649.160	3.5	52775.470	4.5
761.6324	24.00	-3.20	44246.700	4.0	57372.780	4.0
761.6527	23.00	-7.54	8715.720	3.5	21841.450	2.5
761.6968	28.01	-2.20	120044.950	4.5	133169.920	3.5
761.6983	28.00	.29	29481.020	4.0	42605.964	3.0
761.7177	28.01	-4.15	119889.470	5.5	133014.080	5.5
761.7189	26.00	-3.41	40842.130	3.0	53966.720	2.0
761.7369	10.01	-1.51	290803.820	.5	303928.100	.5
761.7514	21.00	-2.57	24656.800	.5	37780.830	1.5
761.7514	21.00	-2.56	24656.800	1.5	37780.830	1.5
761.7536	26.00	-4.26	40421.890	4.0	53545.882	3.0
761.7641	10.01	-4.38	279422.890	.5	292546.700	.5
761.7914	28.01	-4.25	115739.150	4.5	128862.490	4.5
761.7994	26.00	-2.10	33765.291	2.0	46888.494	2.0
761.8020	22.00	-1.53	28896.062	5.0	42019.220	6.0
761.8030	25.00	-2.00	45013.550	2.5	58136.690	3.5
761.8042	18.01	-1.75	159706.460	.5	172829.580	1.5
761.8106	23.00	-2.89	26004.220	2.5	39127.230	1.5
761.8337	18.00	-1.65	107496.463	1.0	120619.076	2.0
761.8413	22.00	-1.52	18061.540	1.0	31184.021	1.0
761.8634	27.00	-2.43	23207.760	1.5	36329.860	2.5
761.8663	19.00	-3.67	21026.580	.5	34148.630	1.5
761.8692	28.01	-4.99	109148.050	4.5	122270.050	3.5
761.8722	22.00	-4.24	28896.062	5.0	42018.010	5.0
761.8933	37.00	-1.43	12578.950	0.0	25704.147	0.0
761.8942	19.00	-3.97	21026.580	.5	34148.150	.5
761.9110	28.01	-4.92	122140.710	4.5	135261.990	4.5
761.9209	27.00	-4.94	42434.230	2.5	55555.340	2.5
761.9210	28.00	-.43	29668.918	3.0	42790.027	2.0
761.9350	92.00	-1.14	7581.807	0.0	20706.286	0.0
761.9505	13.01	-1.67	135012.100	1.0	148132.700	2.0
761.9609	22.00	-3.25	28702.768	3.0	41823.190	3.0
761.9807	28.01	-2.99	101754.800	2.5	114874.880	2.5
761.9836	24.00	-3.78	33934.880	3.0	47054.910	4.0
761.9970	27.00	-2.36	43425.710	2.5	56545.510	2.5
762.0179	25.01	-4.53	53781.700	3.0	66901.140	2.0
762.0250	75.00	-2.72	15647.559	0.0	28770.488	0.0
762.0260	23.00	-2.88	26122.040	3.5	39241.340	2.5
762.0475	26.00	-1.70	38175.332	3.0	51294.262	3.0
762.0645	22.00	-1.91	28638.832	2.0	41757.470	3.0
762.0982	22.00	-1.99	28596.293	1.0	41714.350	2.0
762.1056	24.00	-.98	49573.030	4.0	62690.960	5.0
762.1149	15.01	-3.33	105224.830	0.0	118342.600	1.0
762.1170	40.00	-1.72	11130.738	0.0	24252.083	0.0
762.1313	10.00	-4.48	158795.992	1.0	171915.480	0.0
762.1439	28.00	-2.32	48715.200	4.0	61832.470	4.0
762.1500	38.00	-.61	20003.065	0.0	33123.842	0.0
762.1500	44.00	.44	31698.405	0.0	44819.182	0.0
762.1561	24.00	-4.99	35398.020	4.0	48515.080	3.0
762.1610	40.00	-1.89	14679.669	0.0	27800.256	0.0
762.1747	27.00	-4.26	41041.430	3.5	54158.170	4.5
762.1753	23.00	-2.08	26480.280	3.5	39597.010	4.5
762.1960	64.00	-.89	10808.108	0.0	23928.093	0.0
762.2119	22.00	-3.02	34078.580	3.0	47194.660	4.0
762.2217	22.00	-1.79	28702.768	3.0	41818.700	4.0
762.2340	28.01	-2.43	113623.100	.5	126738.620	1.5
762.2503	24.00	-3.90	30965.460	3.0	44080.900	2.0
762.2567	29.01	-3.87	115662.770	4.0	128778.100	4.0
762.2666	10.01	-4.01	292451.780	1.5	305566.940	1.5
762.2696	22.00	-1.66	28788.372	4.0	41903.480	5.0
762.2701	24.00	-4.74	33906.650	1.0	47021.750	1.0
762.2765	18.01	-4.10	189040.870	1.5	202155.860	2.5
762.2898	28.01	-3.55	115739.150	4.5	128853.910	4.5
762.2933	17.01	-1.15	161671.000	0.0	174785.700	1.0
762.2940	39.00	-.90	18873.860	0.0	31992.158	0.0
762.3026	24.00	-2.39	44246.700	4.0	57361.240	3.0
762.3038	27.00	-2.21	39649.160	3.5	52763.680	3.5
762.3078	26.00	-4.29	41018.029	2.0	54132.480	1.0
762.3400	12.00	-1.48	47844.414	1.0	60956.310	2.0
762.3538	24.00	-3.01	33060.740	3.0	46174.400	3.0
762.3572	24.00	-3.83	33934.880	3.0	47048.480	3.0
762.3665	23.00	-1.96	24992.880	3.5	38106.320	2.5
762.4020	24.00	-4.12	33935.650	2.0	47048.480	3.0
762.4160	24.00	-4.61	33934.880	3.0	47047.470	2.0
762.4400	72.00	-.99	10485.478	0.0	23601.264	0.0
762.4584	17.00	-1.36	84988.480	1.5	98100.340	.5
762.4607	24.00	-3.54	33935.650	2.0	47047.470	2.0
762.4660	25.02	-2.72	218375.610	4.5	231487.340	4.5
762.4765	28.00	-2.07	43654.974	3.0	56766.523	4.0
762.4769	28.00	-2.13	44475.158	2.0	57586.700	2.0
762.4788	24.00	-3.90	33671.550	3.0	46783.060	4.0
762.4793	23.00	-.12	25130.960	2.5	38242.460	3.5
762.4798	28.00	-1.50	45418.858	2.0	58530.350	3.0
762.4852	13.01	-.89	125700.500	0.0	138811.900	1.0
762.5020	25.01	-4.29	69044.610	2.0	82155.720	1.0
762.5311	26.01	-3.97	72352.170	3.5	85462.780	3.5
762.5375	25.01	-2.71	72648.800	4.0	85759.300	4.0
762.5503	29.01	-3.81	133826.200	2.0	146936.480	2.0
762.5517	20.00	-.70	38259.124	3.0	51369.380	2.0
762.5700	90.00	-1.86	8711.012	0.0	21824.562	0.0
762.5724	23.00	-2.46	24830.180	1.5	37940.080	.5
762.6300	27.00	-2.28	40827.770	1.5	53936.680	2.5
762.6351	22.00	-4.80	12118.394	4.0	25227.217	3.0
762.6562	23.00	-1.40	29296.430	2.5	42404.890	3.5
762.6783	19.00	-1.95	21534.700	2.5	34642.780	1.5
762.7325	12.00	-1.96	47851.162	2.0	60956.310	2.0
762.7616	28.00	-2.41	45418.858	2.0	58525.507	1.0
762.7655	8.01	-2.95	232796.270	2.5	245902.850	2.5
762.7726	25.01	-3.64	69044.610	2.0	82151.070	2.0
762.8063	28.00	-2.58	42767.900	3.0	55873.780	2.0
762.8092	28.01	-4.12	121180.550	5.5	134286.380	4.5
762.8121	19.00	-2.91	21537.000	1.5	34642.780	1.5
762.8121	19.00	-2.21	21537.000	1.5	34642.780	.5
762.8162	7.00	-1.67	96750.810	1.5	109856.520	1.5
762.8168	13.01	-1.02	125706.200	1.0	138811.900	1.0
762.8168	13.01	-.54	125706.200	1.0	138811.900	2.0
762.8255	24.00	-4.42	48824.500	4.0	61930.050	3.0
762.8307	17.00	-1.69	84132.262	2.5	97237.723	2.5
762.8459	23.00	-2.13	24898.730	2.5	38003.930	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
762.8581	25.00	-4.49	51718.220	1.5	64823.210	2.5
762.8814	8.01	-1.52	232711.700	.5	245816.290	1.5
762.8878	18.00	-3.96	107496.463	1.0	120600.944	2.0
762.8884	25.00	-3.79	30419.610	2.5	43524.080	3.5
762.9059	14.00	-2.23	49850.830	2.0	62955.000	2.0
762.9373	14.00	-4.12	49850.830	2.0	62954.460	3.0
762.9588	24.00	-4.27	30965.460	3.0	44068.720	3.0
762.9944	26.00	-3.84	36940.600	2.0	50043.250	1.0
763.0503	14.03	-.11	305641.100	.5	318742.790	.5
763.0840	28.01	-3.29	121180.550	5.5	134281.660	5.5
763.0875	24.00	-4.77	33423.790	1.0	46524.840	2.0
763.1050	28.01	-3.59	119913.330	4.5	133014.080	5.5
763.1120	24.00	-2.92	36552.130	3.0	49652.760	2.0
763.1477	22.00	-4.63	28828.510	2.0	41928.528	2.0
763.1644	25.01	-3.35	69044.610	2.0	82144.340	3.0
763.1710	92.00	-1.76	3710.246	0.0	16813.469	0.0
763.1770	62.01	-2.01	11695.340	0.0	24798.460	0.0
763.1880	20.00	-1.09	35730.454	2.0	48829.780	1.0
763.1880	20.00	-1.54	35730.454	2.0	48829.780	2.0
763.1880	20.00	-3.36	35730.454	2.0	48829.780	3.0
763.1976	21.00	-4.68	11557.640	2.5	24656.800	1.5
763.2116	25.00	-4.40	45060.810	3.5	58159.730	2.5
763.2151	15.00	-3.88	67971.140	.5	81070.000	1.5
763.2274	24.01	-4.51	52321.300	4.5	65419.950	5.5
763.2600	24.00	-3.24	36552.130	3.0	49650.220	3.0
763.2670	24.00	-.78	49573.030	4.0	62671.000	4.0
763.2676	28.01	-4.73	115739.150	4.5	128837.110	5.5
763.2821	26.02	-.49	188109.580	3.0	201207.290	4.0
763.3259	10.01	-.95	280989.530	1.5	294086.490	1.5
763.3631	26.01	-4.51	54904.500	3.5	68000.620	4.5
763.3645	17.00	-2.29	88080.042	2.5	101176.340	2.5
763.3693	14.00	-3.06	49060.601	1.0	62156.816	2.0
763.3743	17.00	-.99	88080.042	2.5	101176.171	3.5
763.3760	8.01	-3.95	252608.900	3.5	265705.000	2.5
763.3795	28.01	-2.64	121190.340	4.5	134286.380	4.5
763.3981	26.00	-2.62	40257.300	5.0	53353.020	6.0
763.4343	24.00	-4.15	33542.110	2.0	46637.210	3.0
763.4477	27.00	-1.06	32781.710	2.5	45876.580	2.5
763.4555	22.00	-3.53	29986.165	3.0	43080.920	2.0
763.4564	16.01	-1.91	140318.800	3.5	153413.520	3.5
763.4730	92.00	-1.52	7259.177	0.0	20357.217	0.0
763.4862	24.00	-3.23	36558.550	2.0	49652.760	2.0
763.4908	6.00	-2.24	70743.950	1.0	83838.080	2.0
763.4943	28.01	-3.71	121180.550	5.5	134274.620	5.5
763.5101	29.01	-2.19	137649.100	2.0	150742.900	3.0
763.5102	18.00	.06	93143.800	2.0	106237.597	2.0
763.5223	13.02	-.73	188877.570	2.5	201971.160	2.5
763.5723	13.02	.57	188877.570	2.5	201971.160	3.5
763.5509	13.01	-3.44	125706.200	1.0	138799.300	0.0
763.5602	13.02	.41	188878.220	1.5	201971.160	2.5
763.5625	13.01	-2.19	125719.000	2.0	138811.900	1.0
763.5625	13.01	-1.02	125719.000	2.0	138811.900	2.0
763.5625	13.01	-.27	125719.000	2.0	138811.900	3.0
763.5818	27.00	-4.70	16470.600	1.5	29563.170	1.5
763.5823	26.00	-3.03	38678.015	2.0	51770.577	3.0
763.6098	28.01	-1.57	93528.440	3.5	106620.530	3.5
763.6343	24.00	-3.10	36558.550	2.0	49650.220	3.0
763.6547	28.01	-2.31	121190.340	4.5	134281.660	5.5
763.6710	28.01	-4.28	121180.550	5.5	134271.590	4.5
763.6746	15.00	-3.12	67113.820	2.5	80204.800	1.5
763.6793	17.00	-3.32	72827.038	.5	85917.937	.5
763.6900	56.00	-.22	22906.736	0.0	36001.054	0.0
763.7055	23.00	-3.39	23935.150	2.5	37025.600	3.5
763.7174	22.00	-3.02	29768.655	2.0	42858.900	3.0
763.7370	27.00	-2.01	41225.760	4.5	54315.670	5.5
763.7498	25.01	-4.47	95080.760	1.0	108170.450	2.0
763.7906	28.01	-3.36	122812.970	3.5	135901.960	2.5
763.7940	62.01	-1.78	10808.108	0.0	23900.643	0.0
763.7941	24.00	-2.61	49573.030	4.0	62661.960	3.0
763.8035	23.00	-.59	24915.160	1.5	38003.930	1.5
763.8327	28.01	-.41	108368.050	2.5	121456.320	1.5
763.8397	23.00	-1.27	29418.170	3.5	42506.320	4.5
763.8484	28.01	-3.92	115739.150	4.5	128827.150	3.5
763.8588	22.00	-4.26	30060.328	4.0	43148.150	3.0
763.8665	25.02	-3.54	218977.340	3.5	232065.030	2.5
763.9272	28.01	-3.76	121180.550	5.5	134267.200	6.5
763.9412	27.00	-4.16	42434.230	2.5	55520.640	3.5
763.9511	22.00	-2.55	18287.560	4.0	31373.601	3.0
763.9540	92.00	-1.61	4194.191	0.0	17283.984	0.0
763.9564	28.01	-3.31	121294.670	4.5	134380.820	3.5
763.9698	24.01	-4.72	52298.120	3.5	65384.040	4.5
763.9757	25.01	-3.26	72648.800	4.0	85734.620	3.0
764.0080	71.00	-1.16	23955.263	0.0	37044.151	0.0
764.0168	55.00	-2.66	14596.845	0.0	27685.562	0.0
764.0189	26.01	-3.14	50167.950	3.5	63273.030	2.5
764.0236	13.01	-2.16	135012.100	1.0	148097.100	0.0
764.0276	14.00	-1.31	49850.830	2.0	62935.760	3.0
764.0422	28.01	-3.38	123434.600	4.5	136519.280	4.5
764.0644	25.02	-3.26	124823.900	4.5	137908.200	5.5
764.0656	28.01	-3.29	121190.340	4.5	134274.620	5.5
764.0940	75.00	-1.85	15647.559	0.0	28734.954	0.0
764.0965	26.01	-2.62	71964.810	2.5	85048.560	1.5
764.1229	8.01	-2.89	252607.700	4.5	265691.000	3.5
764.1409	27.00	-2.42	32841.990	4.5	45924.980	3.5
764.1561	25.00	-4.21	34938.700	4.5	48021.430	5.5
764.1579	25.00	-4.85	50341.300	4.5	63424.000	3.5
764.1684	27.00	-4.03	40621.620	1.5	53704.140	2.5
764.1731	27.00	-2.61	31699.690	4.5	44782.130	4.5
764.1853	22.00	-2.94	35757.510	4.0	48839.740	3.0
764.1929	8.01	-3.20	252608.900	3.5	265691.000	3.5
764.2087	28.01	-4.47	101754.800	2.5	114836.630	3.5
764.2426	28.01	-3.52	121190.340	4.5	134271.590	4.5
764.2472	28.01	-4.96	87538.090	3.5	100619.260	4.5
764.2571	13.01	-2.16	135009.000	0.0	148090.000	1.0
764.2910	56.00	.46	23632.653	0.0	36716.675	0.0
764.3150	6.00	-4.81	75253.970	1.0	88333.980	0.0
764.3343	25.02	-3.11	218307.980	2.5	231387.660	3.5
764.3483	18.02	-2.95	239193.480	1.0	252272.920	1.0
764.4272	27.00	-.60	32027.500	3.5	45105.590	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
764.4384	13.01	-2.76	135012.100	1.0	148090.000	1.0
764.4384	13.01	-2.28	135012.100	1.0	148090.000	2.0
764.4752	28.01	-.24	106022.790	.5	119100.060	1.5
764.5090	62.01	-1.76	8469.040	0.0	21549.331	0.0
764.5146	22.00	-4.69	26564.385	3.0	39640.980	3.0
764.5191	26.00	-4.13	38678.015	2.0	51754.534	1.0
764.5388	6.00	-2.67	70743.950	1.0	83820.130	1.0
764.5435	17.01	-3.83	159574.200	2.0	172650.300	3.0
764.5564	25.00	-3.00	45060.810	3.5	58136.690	3.5
764.5640	72.00	-1.33	17825.312	0.0	30904.662	0.0
764.5705	25.00	-4.06	33825.490	2.5	46901.130	2.5
764.5776	22.00	-2.60	28638.832	2.0	41714.350	2.0
764.6038	28.01	-1.60	94067.140	1.5	107142.210	1.5
764.6091	23.02	-2.58	147606.500	3.5	160681.480	3.5
764.6096	24.00	-2.95	44307.960	5.0	57382.930	5.0
764.6213	25.00	-2.57	51638.170	2.5	64712.940	2.5
764.6447	25.00	-3.82	30354.210	3.5	43428.580	4.5
764.6582	9.02	-4.26	442694.580	1.5	455768.720	.5
764.6605	28.01	-4.98	109038.840	1.5	122112.940	.5
764.7044	24.00	-.68	49617.610	5.0	62690.960	5.0
764.7167	18.01	-1.81	189934.550	.5	203007.690	1.5
764.7371	28.01	-4.04	119909.720	1.5	132982.510	1.5
764.7547	24.00	-2.62	36577.730	4.0	49650.220	3.0
764.7710	41.00	-.57	24600.544	0.0	37676.354	0.0
764.7804	26.01	-4.03	67273.860	1.5	80345.910	.5
764.7812	26.00	-2.15	35856.386	2.0	48928.423	2.0
764.7981	26.00	-4.44	40894.972	2.0	53966.720	2.0
764.7992	28.01	-4.95	121190.340	4.5	134262.070	3.5
764.8020	62.01	-1.68	12179.286	0.0	25254.566	0.0
764.8056	27.00	-4.68	33674.380	2.5	46746.000	2.5
764.8191	22.00	-2.63	35652.950	3.0	48724.340	2.0
764.8208	26.01	-8.88	25787.600	1.5	38856.960	2.5
764.8361	13.01	-2.28	135018.900	2.0	148090.000	2.0
764.8361	13.01	-1.53	135018.900	2.0	148090.000	3.0
764.8361	13.01	-3.46	135018.900	2.0	148090.000	1.0
764.8588	25.00	-.74	50012.530	2.5	63083.240	1.5
764.8823	8.01	-1.56	232745.980	1.5	245816.290	1.5
764.8846	24.00	-2.56	49620.690	4.0	62690.960	5.0
764.9185	8.01	-1.01	232959.260	3.5	246028.950	3.5
764.9250	28.01	-.46	117872.780	2.5	130942.360	1.5
764.9285	28.01	-4.97	117872.780	2.5	130942.300	1.5
764.9483	15.00	-2.73	67113.820	2.5	80183.000	2.5
764.9496	24.00	-3.93	33040.100	2.0	46109.260	2.0
764.9520	42.01	-1.06	27584.872	0.0	40657.588	0.0
764.9525	28.01	-4.01	92792.080	3.5	105861.190	2.5
764.9531	25.02	-4.81	195682.500	5.5	208751.600	4.5
764.9665	7.00	-3.36	96787.650	1.5	109856.520	1.5
764.9712	7.01	-2.32	190120.240	1.0	203189.030	1.0
764.9718	8.01	-1.62	232747.510	2.5	245816.290	1.5
764.9771	26.02	-1.55	188109.320	0.0	201178.010	1.0
764.9847	24.00	-3.50	36552.130	3.0	49620.690	4.0
764.9899	25.02	-2.84	219195.950	4.5	232264.420	3.5
764.9929	28.01	-4.22	117662.110	1.5	130730.530	2.5
765.0320	64.00	-.93	10485.478	0.0	23556.827	0.0
765.0649	28.01	-1.97	121227.800	2.5	134294.990	2.5
765.0649	23.00	-1.68	29296.430	2.5	42363.620	3.5
765.0953	26.00	-4.06	21715.735	5.0	34782.406	5.0
765.1855	28.01	-4.79	120144.170	2.5	133209.300	2.5
765.1885	10.00	-3.57	159534.620	1.0	172599.700	0.0
765.2037	24.00	-2.03	44307.960	5.0	57372.780	4.0
765.2095	25.00	-3.31	50359.280	3.5	63424.000	3.5
765.2341	29.01	.16	108014.660	3.0	121076.960	3.0
765.2587	24.00	-3.27	49598.080	2.0	62661.960	3.0
765.2658	22.00	-4.47	31190.631	2.0	44254.390	3.0
765.2786	26.02	-4.49	186597.300	6.0	199660.840	5.0
765.2890	39.00	-1.35	18873.860	0.0	31940.819	0.0
765.2986	24.00	-3.20	35572.940	2.0	48636.140	3.0
765.3144	28.01	-3.20	121317.890	3.5	134380.820	3.5
765.3174	22.00	-3.09	29661.232	1.0	42724.110	2.0
765.3255	24.01	-3.08	52321.300	4.5	65384.040	4.5
765.3260	42.00	-1.26	26616.982	0.0	39683.309	0.0
765.3390	28.01	-3.36	121190.340	4.5	134252.850	3.5
765.3712	28.01	-3.05	107082.210	2.5	120144.170	2.5
765.3719	26.00	-2.07	38678.015	2.0	51739.964	2.0
765.3730	26.01	-3.27	66377.370	3.5	79439.300	3.5
765.3940	19.00	-2.04	21534.700	2.5	34596.270	1.5
765.4027	7.00	-2.07	96750.810	1.5	109812.233	.5
765.4034	18.01	-2.59	145668.800	1.5	158730.210	2.5
765.4122	24.00	-2.91	44299.980	2.0	57361.240	3.0
765.4199	24.00	-2.99	33113.270	4.0	46174.400	3.0
765.4245	24.00	-4.60	33906.650	1.0	46967.700	2.0
765.4333	24.00	-3.02	35501.260	3.0	48562.160	4.0
765.4518	22.00	-.94	18145.400	2.0	31205.985	3.0
765.4538	10.01	-1.17	281025.940	2.5	294086.490	1.5
765.4556	14.03	.19	305682.270	1.5	318742.790	.5
765.4738	18.02	-3.51	239193.480	1.0	252253.690	2.0
765.4796	29.01	-4.11	133826.200	2.0	146886.310	1.0
765.4802	26.01	-3.48	50212.930	2.5	63273.030	2.5
765.5112	12.00	-1.77	47957.028	2.0	61016.600	2.0
765.5112	12.00	-.68	47957.028	2.0	61016.600	3.0
765.5112	12.00	-3.55	47957.028	2.0	61016.600	3.0
765.5122	12.00	-3.14	47957.045	3.0	61016.600	2.0
765.5122	12.00	-1.81	47957.045	3.0	61016.600	3.0
765.5122	12.00	-2.01	47957.045	3.0	61016.600	3.0
765.5122	12.00	-.53	47957.045	3.0	61016.600	4.0
765.5128	12.00	-.86	47957.056	1.0	61016.600	2.0
765.5289	19.00	-2.99	21537.000	1.5	34596.270	1.5
765.5289	19.00	-2.29	21537.000	1.5	34596.270	.5
765.5353	26.02	-3.62	186268.790	2.0	199327.950	1.0
765.5500	26.01	-3.89	31387.980	2.5	44446.890	3.5
765.5623	28.01	-3.96	114836.630	3.5	127895.330	3.5
765.5676	9.01	-4.45	265357.560	1.0	278416.170	0.0
765.5681	24.00	-4.77	37205.880	3.0	50264.480	3.0
765.5780	62.01	-1.86	12905.203	0.0	25967.229	0.0
765.6098	28.01	-2.64	121180.550	5.5	134236.440	6.5
765.6314	22.00	-3.15	33980.639	2.0	47036.160	3.0
765.6754	26.02	-1.13	188109.580	3.0	201166.350	3.0
765.6760	42.00	-.13	31698.405	0.0	44756.760	0.0
765.6912	17.00	-3.39	84988.480	1.5	98044.980	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
765.7024	24.00	-.83	49617.610	5.0	62673.920	6.0
765.7106	26.01	-4.04	86767.870	2.5	99824.040	2.5
765.7147	8.01	-3.01	252608.900	3.5	265665.000	2.5
765.7147	8.01	-2.33	232711.700	.5	245767.600	.5
765.7256	28.00	-.75	43654.974	3.0	56710.889	2.0
765.7323	24.00	-2.73	49635.160	6.0	62690.960	5.0
765.7523	26.01	-4.14	47389.820	1.5	60445.280	2.5
765.7603	12.00	-1.12	41197.403	1.0	54252.726	2.0
765.7634	24.00	-4.04	42153.740	5.0	55209.010	4.0
765.7739	22.00	-4.89	11639.804	3.0	24694.895	4.0
765.7967	22.00	-2.52	28702.768	3.0	41757.470	3.0
765.8010	26.02	-3.35	188109.580	3.0	201164.210	2.0
765.8319	26.00	-3.02	38995.717	1.0	52049.820	2.0
765.8320	90.00	-2.24	8065.752	0.0	21123.446	0.0
765.8326	28.01	-3.72	121240.900	3.5	134294.990	2.5
765.8350	23.00	-4.57	23935.150	2.5	36989.200	2.5
765.8450	23.00	-4.33	26344.940	4.5	39398.820	3.5
765.8600	40.00	-2.38	4355.506	0.0	17412.723	0.0
765.8737	24.00	-2.72	49617.610	5.0	62671.000	4.0
765.8790	25.02	-3.89	218307.980	2.5	231361.280	2.5
765.8954	16.01	-2.33	140229.780	2.5	153282.600	2.5
765.9152	12.00	-1.34	41197.403	1.0	54250.086	1.0
765.9233	14.00	-3.71	49933.775	3.0	62986.320	2.0
765.9434	14.00	-3.89	50566.397	1.0	63618.600	0.0
765.9544	17.00	-.80	84132.262	2.5	97184.277	3.5
765.9847	17.00	-2.55	83894.037	3.5	96945.536	2.5
765.9886	22.00	-2.64	20062.980	1.0	33114.412	2.0
765.9902	12.00	-1.82	41197.403	1.0	54248.809	0.0
766.0257	13.02	-.18	178433.430	.5	191484.230	.5
766.0275	25.00	-3.55	50373.230	2.5	63424.000	3.5
766.0333	24.00	-1.60	44299.980	2.0	57350.650	2.0
766.0545	24.00	-3.95	49620.690	4.0	62671.000	4.0
766.1061	25.00	-1.87	45060.810	3.5	58110.240	4.5
766.1179	28.01	-3.03	114836.630	3.5	127885.860	4.5
766.1210	26.00	-.95	34328.733	3.0	47377.909	4.0
766.1436	26.00	-2.55	41018.029	2.0	54066.821	2.0
766.1466	28.01	-4.09	117662.110	1.5	130710.850	.5
766.1596	24.00	-2.97	33060.740	3.0	46109.260	2.0
766.1596	24.00	-3.45	49598.080	2.0	62646.600	2.0
766.1648	20.02	-.09	370141.770	5.0	383190.200	5.0
766.1663	22.00	-3.77	31205.985	3.0	44254.390	3.0
766.1871	20.02	-1.84	370141.770	5.0	383189.820	4.0
766.2429	18.00	-2.07	111818.090	1.0	124865.190	2.0
766.2435	6.00	-1.42	70743.950	1.0	83791.640	2.0
766.2893	26.02	-2.11	188131.700	1.0	201178.010	1.0
766.2940	23.00	-2.22	26352.590	2.5	39398.820	3.5
766.3052	25.01	-4.68	55371.300	3.0	68417.340	2.0
766.3087	28.01	-4.05	92792.080	3.5	105838.060	3.5
766.3105	24.00	-4.97	36552.130	3.0	49598.680	2.0
766.3205	25.00	-3.19	51638.170	2.5	64683.950	1.5
766.3246	12.00	-1.37	47841.119	0.0	60886.830	1.0
766.3381	28.01	-3.03	121240.900	3.5	134286.380	4.5
766.3527	22.00	-1.48	18145.400	2.0	31190.631	2.0
766.3769	17.00	-1.85	84485.309	1.5	97530.130	2.5
766.3804	28.01	-3.38	106620.530	3.5	119665.290	2.5
766.4120	26.00	-2.37	38995.717	1.0	52039.939	1.0
766.4301	26.00	-1.94	24118.815	4.0	37162.729	3.0
766.4340	57.00	-1.90	3468.273	0.0	16515.711	0.0
766.4411	26.00	-4.09	38175.332	3.0	51219.059	3.0
766.4544	13.01	-2.50	135009.000	0.0	148052.500	1.0
766.4650	29.01	.19	120684.550	3.0	133727.870	2.0
766.4685	23.00	-4.75	15270.420	1.5	28313.680	.5
766.4814	16.01	-4.27	151959.410	1.5	165002.450	1.5
766.4862	24.00	-3.87	36577.730	4.0	49620.690	4.0
766.4908	19.00	.15	0.000	.5	13042.880	1.5
766.5044	23.00	-5.42	10892.500	3.5	23935.150	2.5
766.5181	12.00	-1.50	47844.414	1.0	60886.830	1.0
766.5181	12.00	-1.19	47844.414	1.0	60886.830	2.0
766.5285	7.01	-3.42	190120.240	1.0	203162.480	0.0
766.5496	15.00	-3.15	66360.120	1.5	79402.000	2.5
766.5696	21.00	-1.27	20237.100	4.5	33278.640	3.5
766.5855	24.00	-3.32	49620.690	4.0	62661.960	3.0
766.6366	30.02	-3.52	221343.600	2.0	234384.000	3.0
766.6366	13.01	-2.50	135012.100	1.0	148052.500	1.0
766.6390	16.01	-2.79	118146.500	1.5	131186.860	2.5
766.6672	24.00	-2.49	36577.730	4.0	49617.610	5.0
766.6672	28.01	-4.08	115827.120	3.5	128867.000	3.5
766.6686	26.00	-4.30	32873.623	4.0	45913.480	3.0
766.6860	9.01	-3.96	265357.560	1.0	278397.120	1.0
766.6996	18.00	-1.46	111818.090	1.0	124857.420	2.0
766.7084	18.00	-1.52	111818.090	1.0	124857.270	1.0
766.7200	62.01	-1.53	13389.148	0.0	26431.719	0.0
766.7319	10.00	-2.88	159534.620	1.0	172573.400	2.0
766.7331	24.00	-.65	49635.160	6.0	62673.920	6.0
766.7354	21.00	-2.45	20239.920	3.5	33278.640	3.5
766.7412	22.00	-2.50	18145.400	2.0	31184.021	1.0
766.7542	26.02	-1.84	188131.700	1.0	201170.100	0.0
766.8072	29.01	-2.01	135484.300	0.0	148521.800	1.0
766.8142	24.00	-4.56	44050.870	4.0	57088.250	5.0
766.8354	28.01	-.84	108763.320	.5	121800.340	1.5
766.8372	24.00	-2.78	33040.100	2.0	46077.090	1.0
766.8465	20.02	-1.27	360388.680	3.0	373425.510	4.0
766.8695	29.01	-4.07	116080.460	3.0	129116.900	3.0
766.8768	22.00	-2.96	36000.144	4.0	49036.460	4.0
766.9119	28.01	-4.07	106620.530	3.5	119656.250	3.5
766.9149	12.00	-2.68	47851.162	2.0	60886.830	1.0
766.9149	12.00	-1.67	47851.162	2.0	60886.830	2.0
766.9149	12.00	-.75	47851.162	2.0	60886.830	3.0
766.9207	10.01	-4.09	292546.700	.5	305582.270	.5
766.9236	28.01	-4.24	95332.530	2.5	108368.050	2.5
766.9265	14.00	-2.88	45276.188	1.0	58311.659	0.0
766.9325	26.02	-1.98	188142.640	2.0	201178.010	1.0
766.9325	28.01	-4.20	115827.120	3.5	128862.490	4.5
766.9407	15.00	-3.23	68088.270	1.5	81123.500	2.5
766.9538	10.00	-3.58	158795.992	1.0	171831.000	0.0
766.9649	22.00	-4.80	28788.372	4.0	41823.190	3.0
766.9710	14.00	-1.06	49933.775	3.0	62968.490	4.0
766.9714	10.00	-3.99	158795.992	1.0	171830.700	1.0
766.9972	28.01	-4.90	121227.800	2.5	134262.070	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
767.0053	18.00	-2.96	105617.315	2.0	118651.447	1.0
767.0366	13.01	-1.80	135018.900	2.0	148052.500	1.0
767.0825	24.00	-4.47	33934.880	3.0	46967.700	2.0
767.0973	22.00	-3.53	26494.322	2.0	39526.690	2.0
767.1008	26.02	-1.30	188131.700	1.0	201164.210	2.0
767.1127	10.00	-3.49	158795.992	1.0	171828.300	2.0
767.1143	28.01	-1.40	106283.160	2.5	119315.440	2.5
767.1161	29.01	-3.95	123304.630	1.0	136336.880	1.0
767.1163	20.00	-1.17	35730.454	2.0	48762.700	1.0
767.1163	20.00	-1.61	35730.454	2.0	48762.700	2.0
767.1163	20.00	-3.44	35730.454	2.0	48762.700	3.0
767.1249	17.01	-3.87	158177.100	1.0	171209.200	2.0
767.1278	24.00	-3.83	33935.650	2.0	46967.700	2.0
767.1308	24.00	-2.38	35807.900	2.0	48839.900	1.0
767.1685	26.02	-4.41	186268.790	2.0	199300.150	2.0
767.1719	8.01	-3.38	252607.700	4.5	265639.000	3.5
767.2079	28.01	-2.65	121240.900	3.5	134271.590	4.5
767.2090	56.00	.14	9033.000	0.0	22067.258	0.0
767.2292	22.00	-2.58	28788.372	4.0	41818.700	4.0
767.2316	26.00	-4.74	40894.972	2.0	53925.260	1.0
767.2373	26.01	-5.64	25428.800	5.5	38458.990	4.5
767.2416	17.00	-2.59	71958.363	2.5	84988.480	1.5
767.2426	8.01	-4.10	252608.900	3.5	265639.000	3.5
767.2560	64.00	-.89	10243.505	0.0	23276.964	0.0
767.2648	14.00	-2.19	47351.554	2.0	60381.278	1.0
767.3060	38.00	-.52	21535.558	0.0	34566.168	0.0
767.3139	10.01	-3.29	279422.890	.5	292451.780	1.5
767.3375	27.00	-3.67	41918.410	3.5	54946.900	2.5
767.3516	28.01	-4.26	121227.800	2.5	134256.050	2.5
767.3557	10.00	-3.57	159534.620	1.0	172562.800	1.0
767.3581	28.01	-3.83	120002.860	3.5	133031.000	4.5
767.3740	28.01	.07	117872.780	2.5	130900.650	2.5
767.3951	22.00	-2.41	20062.980	1.0	33090.492	1.0
767.4230	26.00	-3.55	38678.015	2.0	51705.052	2.0
767.4317	28.01	-2.30	121227.800	2.5	134254.690	1.5
767.4376	28.01	-4.23	115827.120	3.5	128853.910	4.5
767.4399	28.01	-4.56	115827.120	3.5	128853.870	2.5
767.4441	28.01	-4.43	120903.200	3.5	133929.880	3.5
767.4565	6.00	-.81	84851.530	1.0	97878.000	2.0
767.4719	10.00	-4.22	158795.992	1.0	171822.200	1.0
767.4989	28.01	-2.78	120144.170	2.5	133169.920	3.5
767.5319	28.01	-1.73	121042.570	1.5	134067.760	1.5
767.5401	28.01	-2.03	121227.800	2.5	134252.850	3.5
767.5478	23.00	-1.34	24915.160	1.5	37940.080	.5
767.5478	25.01	-4.33	72648.800	4.0	85673.720	4.0
767.5543	24.00	-4.90	33423.790	1.0	46448.600	1.0
767.5676	7.00	-2.33	96787.650	1.5	109812.233	.5
767.5684	26.01	-4.82	49101.090	.5	62125.660	1.5
767.5764	26.00	-2.63	40257.300	5.0	53281.735	5.0
767.5784	29.01	-4.66	125568.700	1.0	138593.100	1.0
767.5851	22.00	-3.64	36000.144	4.0	49024.430	3.0
767.6060	64.00	-1.11	11775.998	0.0	24803.515	0.0
767.6173	23.00	-3.82	15571.900	2.5	28595.640	3.5
767.6191	26.02	-1.38	188142.640	2.0	201166.350	3.0
767.7097	22.00	-3.02	20062.980	1.0	33085.153	0.0
767.7160	64.00	-.31	19438.462	0.0	32464.112	0.0
767.7246	28.01	-3.63	121227.800	2.5	134249.720	1.5
767.7305	8.01	-1.89	232745.980	1.5	245767.800	.5
767.7311	25.02	-4.76	181949.340	2.5	194971.150	2.5
767.7376	8.03	-.57	575507.400	4.5	588529.100	4.5
767.7376	8.03	1.16	575507.400	4.5	588529.100	5.5
767.7376	8.03	1.07	575507.400	3.5	588529.100	4.5
767.7435	28.00	-3.12	44565.100	3.0	57586.700	2.0
767.7452	26.02	-1.44	188142.640	2.0	201164.210	2.0
767.7647	26.01	-4.29	87470.800	4.5	100492.040	3.5
767.7656	14.00	-2.89	49933.775	3.0	62955.000	2.0
767.7688	28.01	-2.71	121240.900	3.5	134262.070	3.5
767.7847	24.00	-2.23	36552.130	3.0	49573.030	4.0
767.7918	24.00	-2.75	49650.220	3.0	62671.000	4.0
767.7974	14.00	-2.32	49933.775	3.0	62954.460	3.0
767.8120	90.00	-2.32	7420.492	0.0	20444.514	0.0
767.8195	24.00	-4.35	37244.170	4.0	50264.480	3.0
767.8237	10.01	-3.18	292546.700	.5	305566.940	1.5
767.8243	56.01	-2.45	57631.640	0.0	70655.453	0.0
767.8367	8.01	-3.10	232796.270	2.5	245816.290	1.5
767.8514	24.00	-3.29	37233.500	5.0	50253.270	5.0
767.8549	28.01	-2.01	120903.200	3.5	133922.910	4.5
767.8549	22.00	-4.27	35652.950	3.0	48672.660	4.0
767.8749	14.03	-.62	315230.270	3.5	328249.640	3.5
767.8749	14.03	.93	315230.270	3.5	328249.640	4.5
767.8749	14.03	.82	315230.270	2.5	328249.640	3.5
767.8790	62.01	-2.30	9356.272	0.0	22379.157	0.0
767.8962	20.02	-.17	328582.450	1.0	341601.460	2.0
767.9145	28.01	-4.61	116275.810	3.5	129294.510	2.5
767.9410	28.01	-4.37	119909.720	1.5	132927.970	1.5
767.9452	28.01	-4.43	116824.150	2.5	129842.330	2.5
767.9481	24.00	-3.44	31355.210	2.0	44373.340	3.0
767.9490	42.00	-1.68	20164.380	0.0	33166.078	0.0
767.9531	16.00	-1.25	63445.115	1.0	76463.160	2.0
767.9693	20.02	-1.68	370172.430	4.0	383190.200	5.0
767.9705	28.01	-1.28	108368.050	2.5	121385.800	1.5
767.9717	25.00	-.67	49888.080	3.5	62905.810	2.5
767.9917	20.02	-.19	370172.430	4.0	383189.820	4.0
767.9994	23.02	-2.30	147127.000	2.5	160144.260	1.5
768.0089	28.01	-3.46	121050.660	2.5	134067.760	1.5
768.0230	25.00	.86	44288.760	4.5	57305.620	3.5
768.0266	14.00	-.75	47284.061	1.0	60300.860	2.0
768.0431	29.01	-4.82	117926.480	1.0	130945.000	1.0
768.0697	28.01	-4.99	88128.560	2.5	101144.630	3.5
768.0950	18.01	-.50	188766.150	2.5	201781.790	2.5
768.1032	14.00	-2.79	50189.389	2.0	63204.690	2.0
768.1239	28.01	-3.00	121240.900	3.5	134256.050	2.5
768.1287	28.01	-1.15	94067.140	1.5	107082.210	2.5
768.1482	20.02	-1.63	370141.770	5.0	383156.510	4.0
768.1788	22.00	-4.16	35757.510	4.0	48771.730	5.0
768.1800	29.01	-1.20	122745.770	2.0	135759.970	2.0
768.1972	13.02	.12	178470.320	1.5	191484.230	.5
768.2024	24.00	-3.62	35501.260	3.0	48515.060	3.0
768.2397	20.02	-2.60	360388.680	3.0	373401.670	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
768.2523	22.00	-1.45	26772.965	5.0	39785.940	4.0
768.2685	20.02	-2.10	328588.760	3.0	341601.460	2.0
768.2709	28.01	-1.77	100309.290	5.5	113321.950	4.5
768.2833	28.01	-1.02	108548.610	1.5	121561.060	.5
768.3069	25.02	-4.04	218375.610	4.5	231387.660	3.5
768.3128	28.01	-3.10	121240.900	3.5	134252.650	3.5
768.3252	24.00	-3.85	49650.220	3.0	62661.960	3.0
768.3346	22.00	-4.02	28702.768	3.0	41714.350	2.0
768.3360	64.00	-.36	19035.175	0.0	32050.314	0.0
768.3465	18.01	-2.66	147227.970	.5	160239.350	1.5
768.3607	22.00	-4.46	35577.140	2.0	48588.280	3.0
768.3650	20.00	-1.04	35818.713	3.0	48829.780	2.0
768.3650	20.00	-1.73	35818.713	3.0	48829.780	3.0
768.3867	15.01	-2.37	118342.600	1.0	131353.300	2.0
768.3997	28.01	-1.79	121042.570	1.5	134053.050	2.5
768.4014	9.01	-3.73	265357.560	1.0	278368.010	2.0
768.4422	26.02	-4.62	69836.830	3.0	82846.590	4.0
768.4753	24.00	-3.15	49652.760	2.0	62661.960	3.0
768.4812	24.00	-4.93	37244.170	4.0	50253.270	5.0
768.4865	24.00	-2.41	31364.330	3.0	44373.340	3.0
768.5131	28.01	-3.77	94729.250	2.5	107737.810	1.5
768.5190	6.00	-1.88	70743.950	1.0	83752.410	1.0
768.5314	28.01	-3.95	114858.880	5.5	127867.130	4.5
768.5533	26.00	-4.83	22249.430	3.0	35257.309	4.0
768.5580	27.00	-2.15	43537.710	1.5	56545.510	2.5
768.5580	7.02	.60	341947.900	2.5	354955.700	3.5
768.5805	22.00	-2.80	28896.062	5.0	41903.480	5.0
768.5989	10.00	-4.00	158795.992	1.0	171803.100	2.0
768.6072	16.00	-1.03	63456.192	2.0	76463.160	2.0
768.6330	25.00	-4.15	45130.160	4.5	58136.690	3.5
768.6407	6.00	-4.33	75253.970	1.0	88260.370	2.0
768.6797	19.00	-2.10	21534.700	2.5	34540.440	1.5
768.7028	26.01	-4.43	72043.210	1.5	85048.560	1.5
768.7134	20.02	-1.38	347383.510	4.0	360388.680	3.0
768.7175	6.00	-3.79	75255.270	2.0	88260.370	2.0
768.7453	24.01	-3.11	54444.190	3.5	67448.820	4.5
768.7780	47.00	.08	29359.337	0.0	42366.993	0.0
768.8050	26.01	-4.18	72169.150	1.5	85172.770	.5
768.8157	19.00	-3.06	21537.000	1.5	34540.440	1.5
768.8157	6.00	-3.77	70743.950	1.0	83747.390	2.0
768.8281	19.00	-2.36	21537.000	1.5	34540.230	.5
768.8396	14.00	-1.45	49933.775	3.0	62936.810	4.0
768.8754	28.01	-3.63	119909.720	1.5	132912.150	2.5
768.8778	28.01	-3.39	121050.660	2.5	134053.050	2.5
768.8826	10.00	-3.18	158795.992	1.0	171798.300	1.0
768.8893	26.00	-3.72	47755.485	3.0	60757.680	4.0
768.8940	74.00	-1.81	19680.435	0.0	32686.129	0.0
768.9017	14.00	-1.71	49933.775	3.0	62935.760	3.0
768.9032	28.01	-2.19	107142.210	1.5	120144.170	2.5
768.9091	26.00	-2.17	41130.620	1.0	54132.480	1.0
768.9245	28.01	-4.50	109846.000	3.5	122847.600	3.5
768.9490	39.00	-1.50	18873.860	0.0	31878.624	0.0
768.9795	10.01	-1.39	281332.550	.5	294333.220	.5
769.0050	45.00	.20	31295.118	0.0	44298.935	0.0
769.0164	12.00	-3.67	46403.065	2.0	59403.110	1.0
769.0173	28.01	-4.22	115827.120	3.5	128827.150	3.5
769.0522	24.00	-1.95	44373.340	3.0	57372.780	4.0
769.0528	27.00	-3.06	42269.320	4.5	55268.750	3.5
769.0650	26.00	-4.00	47755.485	3.0	60754.710	4.0
769.0830	40.00	-1.42	14034.408	0.0	27036.906	0.0
769.0907	25.01	-3.13	62564.700	1.0	75563.490	0.0
769.1138	17.01	-3.05	159574.200	2.0	172572.600	2.0
769.1374	17.01	-2.08	140259.000	2.0	153257.000	2.0
769.1553	12.00	-2.19	46403.065	2.0	59400.763	2.0
769.1553	12.00	-3.20	46403.065	2.0	59400.763	3.0
769.1553	12.00	-.80	46403.065	2.0	59400.763	3.0
769.1694	24.00	-3.71	33060.740	3.0	46058.200	4.0
769.2132	28.01	-4.87	115870.280	2.5	128867.000	3.5
769.2138	26.02	-3.39	186303.440	3.0	199300.150	2.0
769.2333	24.00	-2.61	49650.220	3.0	62646.600	2.0
769.2428	24.00	-3.08	44393.100	6.0	57389.320	6.0
769.2493	6.00	-2.50	70743.950	1.0	83740.060	0.0
769.2517	15.00	-2.04	66343.330	.5	79339.400	1.5
769.2611	28.01	-4.94	116275.810	3.5	129271.720	3.5
769.2731	10.00	-2.92	158795.992	1.0	171791.700	2.0
769.2925	24.00	-3.16	31377.960	4.0	44373.340	3.0
769.2940	17.00	-1.85	84485.309	1.5	97480.664	1.5
769.2972	24.00	-3.34	36577.730	4.0	49573.030	4.0
769.3316	25.00	-3.54	51718.220	1.5	64712.940	2.5
769.3340	20.02	-.85	328606.780	2.0	341601.460	2.0
769.3501	22.00	-3.56	33655.853	2.0	46650.260	3.0
769.3525	20.00	-1.92	35835.413	2.0	48829.780	1.0
769.3525	20.00	-1.74	35835.413	2.0	48829.780	2.0
769.3525	20.00	-3.86	35835.413	2.0	48829.780	3.0
769.3837	24.00	-2.42	49652.760	2.0	62646.600	2.0
769.3943	28.01	.01	104081.040	4.5	117074.700	3.5
769.4450	64.00	-1.20	10162.848	0.0	23159.229	0.0
769.4512	21.00	-2.22	29022.870	2.5	42015.570	3.5
769.4536	28.01	-4.74	109148.050	4.5	122140.710	4.5
769.4541	18.01	-4.69	173347.830	1.5	186340.480	1.5
769.4630	7.00	-2.40	96864.020	2.5	109856.520	1.5
769.4784	23.00	-3.42	26604.770	3.5	39597.010	4.5
769.5009	23.00	-2.48	26249.480	1.5	39241.340	2.5
769.5098	28.01	-2.45	121294.670	4.5	134286.380	4.5
769.5158	28.00	-2.65	42585.296	4.0	55576.905	3.0
769.5252	22.00	-4.70	35527.760	1.0	48519.210	2.0
769.5412	28.01	-4.69	116512.060	3.5	129503.240	4.5
769.5624	14.00	-3.91	50499.838	2.0	63490.660	3.0
769.5939	27.00	-.93	43555.220	3.5	56545.510	2.5
769.6212	24.00	-1.86	44393.100	6.0	57382.930	5.0
769.6284	22.00	-1.72	34204.971	4.0	47194.680	4.0
769.6347	14.00	-3.83	50499.838	2.0	63489.440	2.0
769.6514	21.00	-1.76	24866.180	1.5	37855.500	2.5
769.6597	9.02	.20	431967.930	.5	444957.110	1.5
769.6669	16.00	-.89	63474.101	3.0	76463.160	2.0
769.6804	26.00	-2.57	40842.130	3.0	53830.960	3.0
769.6816	21.00	-2.30	29096.200	3.5	42085.010	4.5
769.7130	25.02	-3.10	218373.000	1.5	231361.280	2.5
769.7195	14.00	-4.09	50499.838	2.0	63488.010	3.0

WAVELENGTH	ELEM	LOCCF	ELO	JLO	EUP	JUP
769.7356	24.00	-1.26	44373.340	3.0	57361.240	3.0
769.7420	17.00	-1.30	88188.550	1.5	101176.340	2.5
769.7788	22.01	-2.28	52471.480	2.5	65456.650	3.5
769.7853	21.00	-4.89	25584.640	2.5	38571.700	3.5
769.7895	28.01	-2.10	121294.670	4.5	134261.660	5.5
769.7977	26.00	-3.70	47377.909	4.0	60364.760	3.0
769.8055	23.00	-.64	29418.170	3.5	42404.890	3.5
769.8138	27.00	-1.46	41918.410	3.5	54904.990	2.5
769.8452	28.01	-4.27	120044.950	4.5	133031.000	4.5
769.8488	27.00	-3.84	36092.440	2.5	49078.430	1.5
769.8974	19.00	-.16	0.000	.5	12965.170	.5
769.9264	20.02	-1.74	370172.430	4.0	383157.110	3.0
769.9454	9.02	-3.84	440359.260	3.5	453343.620	2.5
769.9490	70.00	-.03	19599.777	0.0	32587.650	0.0
769.9620	25.00	-1.34	50099.160	1.5	63083.240	1.5
769.9620	20.02	-3.04	370172.430	4.0	383156.510	4.0
769.9670	12.00	-1.51	47844.414	1.0	60826.410	2.0
769.9922	22.00	-1.38	26657.409	4.0	39640.980	3.0
770.0741	25.02	-4.84	179683.610	4.5	192665.800	4.5
770.1000	74.00	-2.35	19115.832	0.0	32101.159	0.0
770.1014	15.00	-3.18	68088.270	1.5	81070.000	1.5
770.1364	23.00	-3.97	18805.050	.5	31786.190	.5
770.1460	76.00	-2.48	15324.929	0.0	28309.460	0.0
770.1477	25.02	-3.14	218506.390	3.5	231487.340	4.5
770.1524	25.01	-4.58	92039.800	2.0	105020.670	1.0
770.1649	26.01	-4.99	73143.480	3.5	86124.140	4.5
770.1744	28.01	-3.09	121227.800	2.5	134208.300	2.5
770.1857	27.00	-3.36	21215.900	.5	34196.210	1.5
770.1993	25.00	-3.08	45130.160	4.5	58110.240	4.5
770.1999	27.00	-4.82	41969.900	.5	54949.970	1.5
770.2011	22.00	-2.60	18825.890	1.0	31805.940	2.0
770.2070	28.01	-4.97	121294.670	4.5	134274.620	5.5
770.2228	26.00	-3.59	33765.291	2.0	46744.975	3.0
770.2337	13.01	-.61	133435.000	2.0	146414.500	3.0
770.2438	28.01	-4.28	99442.860	4.5	112422.190	5.5
770.2468	15.00	-1.60	66360.120	1.5	79339.400	1.5
770.2491	28.01	-1.53	93390.060	2.5	106369.300	1.5
770.2829	17.00	-2.88	82918.893	2.5	95897.565	1.5
770.3097	24.00	-4.43	37205.880	3.0	50184.100	2.0
770.3132	27.00	-3.78	41918.410	3.5	54896.570	3.5
770.3310	25.01	-4.81	53698.700	2.0	66676.560	2.0
770.3330	41.00	-.21	25084.489	0.0	38065.888	0.0
770.3601	24.00	-3.42	37233.500	5.0	50210.870	4.0
770.3674	12.00	-1.99	47851.162	2.0	60828.410	2.0
770.3803	14.02	-1.18	244871.470	1.0	257848.500	2.0
770.3869	28.01	-4.90	121294.670	4.5	134271.590	4.5
770.4017	26.00	-4.65	45294.830	5.0	58271.500	5.0
770.4270	40.00	-1.46	14599.011	0.0	27576.826	0.0
770.4349	28.01	-4.39	115827.120	3.5	128803.230	2.5
770.4795	23.00	-.61	25130.960	2.5	38106.320	2.5
770.4810	18.00	-4.11	106237.597	2.0	119212.930	3.0
770.4890	27.00	-2.81	22475.360	4.5	35450.560	3.5
770.5543	13.01	-1.67	133440.400	3.0	146414.500	3.0
770.5543	13.01	-.71	133440.400	3.0	146414.500	4.0
770.5543	13.01	-.89	133440.400	3.0	146414.500	4.0
770.5864	26.00	-4.14	38175.332	3.0	51146.892	2.0
770.6274	27.00	-4.14	42434.230	2.5	55407.100	1.5
770.6535	25.00	.36	43595.500	2.5	56567.930	1.5
770.6535	25.01	-4.55	92083.000	3.0	105055.430	2.0
770.6826	16.01	-4.26	140229.780	2.5	153201.720	1.5
770.6894	26.00	-4.19	40421.890	4.0	53393.715	4.0
770.6909	13.01	-4.52	132213.200	1.0	145185.000	0.0
770.6909	13.01	-4.13	132213.200	1.0	145185.000	1.0
770.6909	13.01	-3.82	132213.200	1.0	145185.000	2.0
770.7010	20.02	-.64	347417.050	3.0	360388.680	3.0
770.7218	15.00	-1.44	66544.120	2.5	79515.400	3.5
770.7890	24.00	-2.94	33934.880	3.0	46905.030	4.0
770.7902	22.00	-1.99	33680.130	3.0	46650.260	3.0
770.7908	23.02	-3.23	147606.500	3.5	160576.620	3.5
770.8420	40.00	-1.84	12663.231	0.0	25636.058	0.0
770.8496	28.01	-4.24	120044.950	4.5	133014.080	5.5
770.8515	22.00	-4.18	28788.372	4.0	41757.470	3.0
770.8543	28.01	-4.27	79823.030	3.5	92792.080	3.5
770.8710	24.00	-4.98	48558.570	2.0	61527.340	1.0
770.8876	28.01	-4.02	121317.890	3.5	134286.380	4.5
770.9049	14.00	-2.44	49188.617	2.0	62156.816	2.0
770.9411	24.00	-4.72	36552.130	3.0	49519.720	3.0
770.9524	28.01	-3.99	121294.670	4.5	134262.070	3.5
770.9524	28.01	-3.68	121240.900	3.5	134206.300	2.5
770.9540	42.00	-1.22	25326.461	0.0	38297.403	0.0
770.9643	13.01	-3.47	133447.300	4.0	146414.500	3.0
770.9643	13.01	-1.90	133447.300	4.0	146414.500	4.0
770.9643	13.01	-2.04	133447.300	4.0	146414.500	4.0
770.9643	13.01	-.38	133447.300	4.0	146414.500	5.0
770.9762	24.00	-4.10	33816.060	4.0	46783.060	4.0
770.9935	25.00	.60	43524.080	3.5	56490.790	2.5
770.9941	24.00	-3.79	37244.170	4.0	50210.870	4.0
770.9988	28.01	-4.01	117763.910	1.5	130730.530	2.5
771.0381	26.00	-1.13	34039.495	4.0	47005.455	5.0
771.0517	25.00	-2.81	51718.220	1.5	64683.950	1.5
771.0559	24.00	-4.72	33671.550	3.0	46637.210	3.0
771.0932	22.00	-3.87	24694.895	4.0	37659.927	3.0
771.1231	28.01	-2.89	58493.210	2.5	71457.740	3.5
771.1249	8.02	-.71	350302.300	2.0	363266.800	1.0
771.1404	27.00	-4.94	41982.660	1.5	54946.900	2.5
771.1547	16.01	-3.28	140318.800	3.5	153282.800	2.5
771.1731	26.01	-2.81	31483.200	3.5	44446.890	3.5
771.2040	62.01	-1.38	14034.408	0.0	27001.146	0.0
771.2427	25.00	.64	44523.450	3.5	57485.970	2.5
771.2436	22.00	-1.59	26564.385	3.0	39526.890	2.0
771.2528	24.00	-3.70	31106.370	4.0	44068.720	3.0
771.2665	27.00	-1.96	20500.710	1.5	33462.630	2.5
771.2877	26.00	-3.77	33765.291	2.0	46727.055	2.0
771.2950	26.02	-4.62	105906.230	2.0	118867.870	1.0
771.3230	24.00	-2.38	36558.550	2.0	49519.720	3.0
771.3272	8.03	-.51	575585.000	5.5	588546.100	5.5
771.3272	8.03	1.38	575585.000	5.5	588546.100	6.5
771.3272	8.03	1.30	575585.000	4.5	588546.100	5.5
771.3730	24.00	-1.17	36577.730	4.0	49536.060	5.0

WAVELENGTH	ELFM	LOGGF	ELO	JLO	EUP	JUP
771.4123	26.01	-3.05	72213.100	.5	85172.770	.5
771.4154	26.00	-3.74	32873.623	4.0	45833.240	4.0
771.4176	22.00	-2.02	34078.580	3.0	47038.160	3.0
771.4314	28.00	-2.38	15609.861	2.0	28569.210	2.0
771.4522	26.02	-4.34	186303.440	3.0	199262.440	3.0
771.4575	24.01	-3.42	52298.120	3.5	65257.030	3.5
771.5010	28.01	-3.23	121294.670	4.5	134252.850	3.5
771.5188	26.01	-6.69	26055.400	2.5	39013.280	1.5
771.5445	18.01	-2.78	183675.570	3.5	196633.020	2.5
771.5468	24.00	-3.87	35501.260	3.0	48458.670	2.0
771.5583	28.00	-.77	29832.810	3.0	42790.027	2.0
771.5677	27.00	-4.96	34133.590	3.5	47090.650	2.5
771.5689	28.01	-.57	108368.050	2.5	121325.090	2.5
771.5831	15.02	-.64	202906.400	3.5	215863.200	3.5
771.5831	15.02	.90	202906.400	3.5	215863.200	4.5
771.5831	15.02	.79	202906.400	2.5	215863.200	3.5
771.6243	10.00	-3.97	158795.992	1.0	171752.100	1.0
771.6393	28.00	-2.73	42621.048	3.0	55576.905	3.0
771.6516	28.01	-2.57	122790.410	4.5	135746.060	3.5
771.6633	22.00	-3.45	29768.655	2.0	42724.110	2.0
771.6820	26.01	-4.77	87536.900	3.5	100492.040	3.5
771.7189	18.01	-1.71	188766.150	2.5	201720.670	1.5
771.7582	17.00	-2.36	72488.568	1.5	85442.430	1.5
771.7660	64.00	-2.01	7420.492	0.0	20377.787	0.0
771.7678	28.01	-2.58	121317.890	3.5	134271.590	4.5
771.7738	9.01	-.25	277188.860	1.0	290142.460	2.0
771.7899	20.02	-.76	370141.770	5.0	383095.100	5.0
771.8083	20.02	1.07	370141.770	5.0	383094.790	6.0
771.8131	9.02	-4.96	445006.130	2.5	457959.070	3.5
771.8471	14.01	-4.21	101024.610	2.5	113976.980	1.5
771.8763	29.01	-2.47	133984.600	3.0	146936.480	2.0
771.8787	14.03	-.57	315305.280	4.5	328257.120	4.5
771.6787	14.03	1.17	315305.280	4.5	328257.120	5.5
771.8787	14.03	1.08	315305.280	3.5	328257.120	4.5
771.8913	22.00	-3.79	29907.273	2.0	42858.900	3.0
771.9007	26.00	-2.86	40594.413	4.0	53545.882	3.0
771.9495	8.01	-2.18	253048.350	2.5	265999.000	3.5
771.9676	22.00	-2.52	29661.232	1.0	42611.580	1.0
771.9728	14.00	-2.33	49399.670	1.0	62349.930	2.0
771.9890	39.00	-.90	18873.860	0.0	31827.412	0.0
772.0116	24.01	-2.66	54444.190	3.5	67393.800	3.5
772.0249	22.00	-1.14	33700.874	4.0	46650.260	3.0
772.0527	28.01	-2.50	116833.150	4.5	129782.070	3.5
772.0664	26.00	-2.17	41018.029	2.0	53966.720	2.0
772.0741	15.00	-3.11	66813.040	1.5	79761.600	2.5
772.0770	42.00	-1.35	20245.038	0.0	33197.114	0.0
772.0867	28.01	-4.71	116893.980	2.5	129842.330	2.5
772.0891	17.00	-3.18	85442.430	1.5	98390.740	.5
772.1219	16.01	-.99	115285.310	3.5	128233.070	2.5
772.1338	24.00	-3.15	31352.420	1.0	44299.980	2.0
772.1708	28.01	-3.92	117763.910	1.5	130710.850	.5
772.1888	22.00	-1.89	29912.262	3.0	42858.900	3.0
772.1991	20.00	-1.23	35730.454	2.0	48676.920	1.0
772.1991	20.00	-1.67	35730.454	2.0	48676.920	2.0
772.1991	20.00	-3.49	35730.454	2.0	48676.920	3.0
772.2020	73.00	-2.70	12179.286	0.0	25129.265	0.0
772.2054	19.00	-3.52	21026.580	.5	33972.940	1.5
772.2084	18.01	-1.41	183675.570	3.5	196621.880	3.5
772.2185	28.01	-1.55	106369.300	1.5	119315.440	2.5
772.2412	19.00	-3.82	21026.580	.5	33972.340	.5
772.2480	40.00	-.92	22019.503	0.0	34968.711	0.0
772.2573	9.02	.47	432060.640	1.5	445006.130	2.5
772.2584	12.00	-1.80	47957.028	2.0	60902.500	2.0
772.2584	12.00	-.71	47957.028	2.0	60902.500	3.0
772.2584	12.00	-3.55	47957.028	2.0	60902.500	3.0
772.2594	12.00	-3.17	47957.045	3.0	60902.500	2.0
772.2594	12.00	-1.84	47957.045	3.0	60902.500	3.0
772.2594	12.00	-2.03	47957.045	3.0	60902.500	3.0
772.2594	12.00	-.56	47957.045	3.0	60902.500	4.0
772.2596	23.00	-1.37	29418.170	3.5	42363.620	3.5
772.2600	12.00	-.89	47957.056	1.0	60902.500	2.0
772.2602	25.02	-4.43	181949.340	2.5	194894.780	1.5
772.2746	13.01	-3.07	125866.700	1.0	138811.900	2.0
772.2746	13.01	-3.55	125866.700	1.0	138811.900	1.0
772.2870	44.00	-1.56	15405.586	0.0	28354.140	0.0
772.2907	24.00	-1.94	33113.270	4.0	46058.200	4.0
772.2925	25.00	-1.73	45130.160	4.5	58075.060	5.5
772.2985	19.02	-1.99	237912.200	1.5	250857.000	.5
772.3002	24.00	-2.83	31355.210	2.0	44299.980	2.0
772.3086	23.00	-2.81	26182.600	.5	39127.230	1.5
772.3163	24.00	-4.36	31106.370	4.0	44050.870	4.0
772.3213	26.00	-2.70	18378.187	2.0	31322.603	3.0
772.3217	28.01	-4.48	109846.000	3.5	122790.410	4.5
772.3312	6.00	-3.09	75253.970	1.0	88198.220	2.0
772.3354	28.01	-2.50	121317.890	3.5	134262.070	3.5
772.3469	20.00	-1.12	35818.713	3.0	48762.700	2.0
772.3469	20.00	-1.81	35818.713	3.0	48762.700	3.0
772.3623	24.00	-3.47	33934.880	3.0	46878.610	3.0
772.3630	42.00	-1.02	26939.612	0.0	39886.892	0.0
772.3706	8.01	-1.85	232959.260	3.5	245902.850	2.5
772.3757	18.00	-.82	93143.800	2.0	106087.305	1.0
772.3950	40.00	-2.85	4839.451	0.0	17786.195	0.0
772.3993	24.01	-3.78	54444.190	3.5	67387.300	2.5
772.4080	39.00	-.88	19035.175	0.0	31981.701	0.0
772.4082	24.00	-4.29	33935.650	2.0	46878.610	3.0
772.4088	6.00	-2.65	75255.270	2.0	88198.220	2.0
772.4204	18.00	-.48	94553.707	0.0	107496.463	1.0
772.4261	6.00	-1.85	84935.340	1.0	97878.000	2.0
772.4345	27.00	-2.09	41918.410	3.5	54860.930	4.5
772.4398	25.01	-4.41	69215.730	1.0	82158.160	0.0
772.4512	24.00	-4.94	33762.740	6.0	46704.980	5.0
772.4530	18.01	-2.52	159393.310	1.5	172335.520	2.5
772.4572	24.00	-3.22	35572.940	2.0	48515.080	3.0
772.4595	30.02	-4.29	220668.300	2.0	233610.400	2.0
772.4613	22.00	-4.85	35577.140	2.0	48519.210	2.0
772.4626	10.00	-2.28	152970.733	0.0	165912.782	1.0
772.4661	24.00	-2.11	36577.730	4.0	49519.720	3.0
772.4792	8.01	-1.41	253046.230	1.5	265988.000	2.5
772.5192	14.00	-1.90	50189.389	2.0	63130.490	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
772.5855	25.01	-3.97	69215.730	1.0	82155.720	1.0
772.5927	27.00	-2.93	23152.570	3.5	36092.440	2.5
772.6058	8.01	-3.05	253048.350	2.5	265986.000	2.5
772.6076	24.00	-2.00	33060.740	3.0	46000.360	3.0
772.6181	12.00	-3.62	46403.065	2.0	59342.510	1.0
772.6181	12.00	-4.10	46403.065	2.0	59342.510	2.0
772.6333	9.02	-.34	458392.610	1.5	471331.600	2.5
772.6429	14.01	-4.47	101023.310	1.5	113962.340	.5
772.6655	29.01	-.41	110365.980	2.0	123304.630	1.0
772.6680	41.00	-1.45	11292.053	0.0	24234.222	0.0
772.6727	28.01	-4.58	109148.050	4.5	122066.580	3.5
772.6847	6.00	-2.78	75253.970	1.0	88192.300	1.0
772.6948	28.01	-2.75	121317.890	3.5	134256.050	2.5
772.7049	21.00	-.82	29022.870	2.5	41960.860	2.5
772.7204	19.00	-2.18	21534.700	2.5	34472.430	1.5
772.7613	28.00	-.06	29668.918	3.0	42605.964	3.0
772.7622	6.00	-4.88	75255.270	2.0	88192.300	1.0
772.7849	8.01	-1.66	253048.350	2.5	265985.000	3.5
772.8118	26.00	-3.05	41130.620	1.0	54066.821	2.0
772.8130	6.00	-2.91	75256.120	0.0	88192.300	1.0
772.8286	18.00	-3.26	112138.980	2.0	125074.900	2.0
772.8447	24.00	-3.43	31364.330	3.0	44299.980	2.0
772.8560	62.01	-1.29	13469.806	0.0	26406.827	0.0
772.8579	19.00	-3.13	21537.000	1.5	34472.430	1.5
772.8632	25.01	-3.85	69215.730	1.0	82151.070	2.0
772.8638	22.00	-4.83	35652.950	3.0	48588.260	3.0
772.8728	19.00	-2.43	21537.000	1.5	34472.180	.5
772.8812	10.01	-.88	290583.170	1.5	303518.210	1.5
772.8859	28.01	-4.02	121317.890	3.5	134252.850	3.5
772.9170	14.02	-1.15	201597.730	1.0	214532.170	1.0
772.9499	14.02	-.68	201598.280	2.0	214532.170	1.0
772.9660	18.00	-4.16	112138.980	2.0	125072.600	1.0
772.9726	21.00	-4.61	25724.720	3.5	38658.230	4.5
772.9910	44.00	-.20	30811.173	0.0	43747.934	0.0
773.0096	20.00	-.70	35896.889	4.0	48829.780	3.0
773.0270	13.01	-.91	125866.700	1.0	138799.300	0.0
773.0383	27.00	-1.37	41225.760	4.5	54158.170	4.5
773.0462	14.03	-2.85	315317.360	4.5	328249.640	4.5
773.0462	14.03	-1.12	315317.360	5.5	328249.640	4.5
773.0462	14.03	-1.21	315317.360	4.5	328249.640	3.5
773.0700	9.02	-4.34	453343.620	2.5	466275.500	2.5
773.0748	18.00	-3.60	111818.090	1.0	124749.690	0.0
773.1477	29.01	-4.07	115639.020	2.0	128569.600	2.0
773.2292	26.00	-4.21	40231.312	2.0	53160.530	3.0
773.2490	42.00	-1.90	19841.750	0.0	32774.195	0.0
773.2608	28.01	-4.80	119889.470	5.5	132818.160	4.5
773.2913	28.01	-1.21	117972.470	3.5	130900.650	2.5
773.3236	6.00	-4.64	84950.360	2.0	97878.000	2.0
773.3242	25.00	.78	43428.580	4.5	56356.210	3.5
773.3355	28.01	-4.79	117763.910	1.5	130691.350	1.5
773.3447	20.00	-2.00	35835.413	2.0	48762.700	1.0
773.3447	20.00	-1.79	35835.413	2.0	48762.700	2.0
773.3447	20.00	-3.93	35835.413	2.0	48762.700	3.0
773.3500	64.00	-1.79	967.890	0.0	13898.646	0.0
773.3559	15.00	-4.27	66834.500	1.5	79761.600	2.5
773.3684	26.00	-2.10	40842.130	3.0	53769.020	4.0
773.3702	24.00	-4.72	36895.730	3.0	49822.590	2.0
773.4007	24.00	-2.09	33040.100	2.0	45966.450	2.0
773.4163	25.01	-4.67	66643.010	4.0	79569.100	5.0
773.4223	27.00	-1.68	33449.180	.5	46375.170	1.5
773.4450	25.00	.45	44696.290	2.5	57621.900	1.5
773.4869	24.00	-3.97	36552.130	3.0	49477.040	2.0
773.5054	15.01	-.55	111508.500	0.0	124433.100	1.0
773.5725	25.00	.15	43644.450	1.5	56567.930	1.5
773.5903	28.00	-1.55	42653.723	2.0	55576.905	3.0
773.5987	14.00	-2.56	50566.397	1.0	63489.440	2.0
773.6192	28.02	-3.83	121412.200	2.0	134334.900	3.0
773.6210	20.02	.98	370172.430	4.0	383095.100	5.0
773.6229	22.00	-4.55	28896.062	5.0	41818.700	4.0
773.6413	27.00	-2.83	41982.660	1.5	54904.990	2.5
773.6581	23.00	-2.03	14548.830	2.5	27470.880	3.5
773.6611	28.01	-4.84	121692.550	4.5	134614.550	5.5
773.7174	25.00	-2.22	37420.240	5.5	50341.300	4.5
773.7342	28.01	-4.75	121146.980	2.5	134067.760	1.5
773.7419	28.01	-2.09	107082.210	2.5	120002.860	3.5
773.7533	25.00	-3.31	51718.220	1.5	64638.680	.5
773.7611	26.01	-3.52	86767.870	2.5	99688.200	3.5
773.7636	26.00	-2.72	35611.608	3.0	48531.896	3.0
773.7825	22.00	-3.68	14105.680	3.0	27025.652	4.0
773.7952	25.01	-3.82	89760.330	5.0	102680.090	5.0
773.8081	28.00	-2.02	42954.234	2.0	55873.780	2.0
773.8114	24.01	-4.19	52298.120	3.5	65217.610	4.5
773.8186	21.00	-.69	29096.200	3.5	42015.570	3.5
773.8306	28.01	-4.02	118877.090	1.5	131796.260	2.5
773.8336	22.01	-6.08	16625.250	1.5	29544.370	2.5
773.8549	26.00	-3.96	34636.820	2.0	47555.584	1.0
773.8665	29.01	.06	122745.770	2.0	135664.340	1.0
773.8683	23.00	-2.94	26480.280	3.5	39398.820	3.5
773.8713	24.00	-4.70	36558.550	2.0	49477.040	1.0
773.8713	24.00	-3.61	36558.550	2.0	49477.040	2.0
773.8752	22.00	-4.71	18287.560	4.0	31205.985	3.0
773.8953	22.00	-2.76	11776.806	4.0	24694.895	4.0
773.9618	26.01	-4.32	66522.320	2.5	79439.300	3.5
773.9768	24.00	-4.98	36895.730	3.0	49812.460	3.0
774.0170	72.00	-1.49	10485.478	0.0	23405.091	0.0
774.0433	10.01	-4.81	292651.320	1.5	305566.940	1.5
774.0721	14.02	-.88	244933.360	1.0	257848.500	2.0
774.0739	10.01	-.38	281171.380	2.5	294086.490	1.5
774.0942	8.01	-3.20	253046.230	1.5	265961.000	2.5
774.1014	21.00	-.84	24866.180	1.5	37780.830	1.5
774.1224	21.00	-.56	20237.100	4.5	33151.400	4.5
774.1350	21.00	-1.42	20239.920	3.5	33154.010	2.5
774.1590	14.00	-2.25	50054.800	4.0	62968.490	4.0
774.1793	28.01	-2.88	117074.700	3.5	129988.050	2.5
774.2024	22.00	-4.96	6661.003	3.0	19573.968	4.0
774.2213	8.01	-1.47	253048.350	2.5	265961.000	2.5
774.2381	24.00	-2.25	35398.020	4.0	48310.390	5.0
774.2399	27.00	-4.90	33462.830	2.5	46375.170	1.5
774.2405	28.01	-4.92	121042.520	1.5	133954.850	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
774.2435	28.01	-2.91	121042.570	1.5	133954.850	.5
774.2570	63.00	.22	17583.339	0.0	30498.947	0.0
774.2657	26.00	-1.41	40257.300	5.0	53169.210	6.0
774.2669	24.00	-3.42	33934.880	3.0	46846.770	3.0
774.2717	14.00	-.69	50054.800	4.0	62966.610	5.0
774.2915	21.00	-2.27	20239.920	3.5	33151.400	4.5
774.3131	24.00	-3.81	33935.650	2.0	46846.770	3.0
774.3215	27.00	-1.03	31871.150	3.5	44782.130	4.5
774.3418	17.00	-3.80	87979.490	3.5	100890.130	2.5
774.3570	72.00	-2.01	15566.901	0.0	28480.841	0.0
774.3583	17.00	-2.77	87979.490	3.5	100889.855	3.5
774.3628	28.01	-3.72	115956.710	2.5	128867.000	3.5
774.3796	26.00	-3.07	36940.600	2.0	49850.610	3.0
774.4024	18.01	-3.08	190592.170	1.5	203501.600	2.5
774.4078	18.01	-3.58	192333.430	.5	205242.970	.5
774.4102	29.01	-.80	120684.550	3.0	133594.050	3.0
774.4156	24.01	-2.50	54444.190	3.5	67353.600	4.5
774.4234	26.02	-3.64	186303.440	3.0	199212.720	4.0
774.4402	29.01	-3.37	135733.600	3.0	148642.600	2.0
774.4564	28.01	-4.10	122837.330	4.5	135746.060	3.5
774.4870	24.00	-3.56	36558.550	2.0	49466.770	2.0
774.4876	27.00	-2.08	23184.230	2.5	36092.440	2.5
774.4937	16.01	-3.68	152094.340	2.5	165002.450	1.5
774.4971	17.00	-.49	72827.038	.5	85735.091	1.5
774.5020	14.00	-4.38	50189.389	2.0	63097.360	1.0
774.5027	10.01	.07	290371.950	2.5	303279.910	2.5
774.5051	10.01	-4.54	303974.290	1.5	316882.210	2.5
774.5101	14.00	-1.85	49028.294	0.0	61936.130	1.0
774.5176	28.01	-.53	108548.610	1.5	121456.320	1.5
774.5290	22.00	-2.52	18818.230	0.0	31725.750	1.0
774.5290	28.01	-4.19	116512.060	3.5	129419.580	4.5
774.5356	26.01	-3.91	101144.630	3.5	114052.040	3.5
774.5464	26.00	-2.20	41018.029	2.0	53925.260	1.0
774.5596	24.00	-4.51	42079.810	4.0	54986.820	3.0
774.5908	24.00	-4.26	33542.110	2.0	46448.600	1.0
774.6160	28.01	-4.52	121146.980	2.5	134053.050	2.5
774.6184	26.01	-2.94	71964.810	2.5	84870.840	2.5
774.6190	63.00	.16	16534.792	0.0	29444.364	0.0
774.6262	6.00	-3.36	75253.970	1.0	88159.670	0.0
774.6344	12.00	-.14	35051.264	1.0	47957.028	2.0
774.6376	24.00	-3.13	33060.740	3.0	45966.450	2.0
774.6552	26.00	-2.09	40842.130	3.0	53747.547	3.0
774.6822	22.00	-3.30	20209.444	2.0	33114.412	2.0
774.6953	25.01	-4.63	53781.700	3.0	66686.450	3.0
774.7217	20.02	-2.41	346896.260	2.0	359800.570	3.0
774.7390	14.00	-4.50	50189.389	2.0	63093.410	2.0
774.7397	26.01	-4.04	67273.860	1.5	80177.870	1.5
774.8003	25.01	-3.49	89800.340	4.0	102703.340	4.0
774.8190	92.00	-1.01	11453.368	0.0	24359.608	0.0
774.8278	26.00	-1.86	23783.617	5.0	36686.159	4.0
774.8314	22.00	-4.86	35559.627	5.0	48462.110	5.0
774.8370	64.01	-1.51	19277.147	0.0	32183.087	0.0
774.8718	24.00	-1.41	36552.130	3.0	49453.940	4.0
774.8891	28.00	-.14	29888.505	2.0	42790.027	2.0
774.9262	26.00	-4.11	33412.706	3.0	46313.610	2.0
774.9300	64.00	-2.25	483.945	0.0	13388.336	0.0
774.9300	62.01	-1.29	13469.806	0.0	26374.197	0.0
774.9432	18.00	-3.34	112138.980	2.0	125039.600	1.0
774.9667	24.01	-4.02	54444.190	3.5	67344.420	2.5
774.9889	22.00	-2.72	18825.890	1.0	31725.750	1.0
774.9913	9.02	-3.98	442748.850	2.5	455648.670	1.5
774.9949	25.02	-3.77	181949.340	2.5	194849.100	1.5
775.0009	14.00	-2.82	50054.800	4.0	62954.460	3.0
775.0010	14.00	-1.99	49060.601	1.0	61960.260	0.0
775.0364	21.00	-.02	29022.870	2.5	41921.940	1.5
775.0731	28.01	-2.63	122847.600	3.5	135746.060	3.5
775.0815	28.01	-3.70	118897.940	2.5	131796.260	2.5
775.1109	26.00	-1.84	40257.300	5.0	53155.130	4.0
775.1151	28.00	-1.92	44206.185	3.0	57103.946	3.0
775.1247	29.01	-2.39	135733.600	3.0	148631.200	3.0
775.1512	28.01	-3.69	115956.710	2.5	128853.870	2.5
775.1927	9.02	-.35	432060.640	1.5	444957.110	1.5
775.2023	24.01	-4.78	52321.300	4.5	65217.610	4.5
775.2113	24.00	-4.56	37205.880	3.0	50102.040	3.0
775.2130	7.00	-3.87	107253.106	2.5	120149.238	3.5
775.2131	29.01	-2.95	115662.770	4.0	128558.900	3.0
775.2191	25.00	-3.75	51787.920	.5	64683.950	1.5
775.2299	25.00	-3.60	49591.510	1.5	62487.360	2.5
775.2340	42.00	-1.32	26939.612	0.0	39838.943	0.0
775.2492	10.01	-3.44	279137.620	3.5	292033.150	2.5
775.2636	25.00	.18	43595.500	2.5	56490.790	2.5
775.2648	25.00	-.64	43672.660	.5	56567.930	1.5
775.2660	27.00	-2.97	41041.430	3.5	53936.680	2.5
775.2702	21.00	-.78	29189.830	4.5	42085.010	4.5
775.2954	14.03	-2.22	315305.280	3.5	328200.040	3.5
775.2954	14.03	-.68	315305.280	4.5	328200.040	3.5
775.2954	14.03	-.79	315305.280	3.5	328200.040	2.5
775.3086	22.00	-2.63	18911.399	2.0	31805.940	2.0
775.3153	25.01	-4.98	72648.800	4.0	85543.230	5.0
775.3254	12.00	-2.27	47841.119	0.0	60735.380	1.0
775.3845	25.00	-.67	50012.530	2.5	62905.810	2.5
775.3953	28.01	-2.61	93390.060	2.5	106283.160	2.5
775.4005	22.00	-1.92	26892.926	3.0	39785.940	4.0
775.4049	23.00	-3.53	26505.880	2.5	39398.620	3.5
775.4079	9.02	-4.87	457376.180	.5	470269.070	.5
775.4190	92.00	-1.52	7259.177	0.0	20155.431	0.0
775.4350	29.01	-.27	122867.530	1.0	135759.970	2.0
775.4576	17.00	-1.51	87979.490	3.5	100871.554	3.5
775.4691	9.00	.28	104731.050	1.5	117622.923	2.5
775.4783	17.00	-.55	87979.490	3.5	100871.209	4.5
775.4789	22.00	-4.71	31489.451	4.0	44381.160	4.0
775.5072	28.01	-4.57	121161.810	1.5	134053.050	2.5
775.5156	25.00	.26	44814.730	1.5	57705.630	.5
775.5200	62.01	-1.67	11695.340	0.0	24589.914	0.0
775.5237	12.00	-2.39	47844.414	1.0	60735.380	1.0
775.5237	12.00	-2.09	47844.414	1.0	60735.380	2.0
775.5427	25.02	-4.31	218596.690	5.5	231487.340	4.5
775.5529	15.00	-3.98	65450.020	1.5	78340.500	2.5
775.5571	28.01	-3.04	121317.890	3.5	134208.300	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
775.5607	24.00	-3.99	35398.020	4.0	48288.370	4.0
775.5739	25.00	-3.48	50341.300	4.5	63231.430	4.5
775.5812	24.01	-2.70	54444.190	3.5	67334.200	3.5
775.5970	64.00	-1.03	12421.258	0.0	25314.552	0.0
775.6997	18.01	-4.85	192333.430	.5	205221.470	1.5
775.7128	22.00	-4.21	29971.078	4.0	42858.900	3.0
775.7310	41.00	-.16	25568.434	0.0	38459.501	0.0
775.7551	23.00	-4.86	24727.850	2.5	37614.970	3.5
775.7569	24.00	-4.24	33113.270	4.0	46000.360	3.0
775.7651	37.00	-.96	12816.545	0.0	25707.045	0.0
775.7890	72.01	-2.01	18793.202	0.0	31683.305	0.0
775.8026	17.00	-2.84	87979.490	3.5	100865.620	2.5
775.8129	26.01	-4.09	50076.100	1.5	62962.260	1.5
775.8300	71.00	-1.14	24197.256	0.0	37086.678	0.0
775.8388	24.00	-4.49	35572.940	2.0	48458.670	2.0
775.9014	26.01	-3.92	67000.630	2.5	79885.320	2.5
775.9020	27.00	-2.21	23207.760	1.5	36092.440	2.5
775.9298	12.00	-3.57	47651.162	2.0	60735.380	1.0
775.9298	12.00	-2.57	47651.162	2.0	60735.380	2.0
775.9298	12.00	-1.65	47651.162	2.0	60735.380	3.0
775.9435	37.00	-1.91	12816.545	0.0	25704.081	0.0
775.9731	26.02	-3.25	186378.940	4.0	199262.440	3.0
775.9749	9.02	-4.92	453369.770	1.5	466253.240	1.5
775.9755	15.00	-3.65	66813.040	1.5	79696.500	1.5
775.9870	92.00	-1.48	7581.807	0.0	20468.621	0.0
776.0477	16.01	-1.47	118146.500	1.5	131028.760	1.5
776.0616	17.00	-1.57	84648.100	2.5	97530.130	2.5
776.0628	14.00	-1.56	50054.800	4.0	62936.810	4.0
776.0772	8.01	-1.58	253046.230	1.5	265928.000	1.5
776.1074	25.02	-3.84	218506.390	3.5	231387.660	3.5
776.1140	74.00	-2.98	13227.833	0.0	26112.538	0.0
776.1208	22.00	-4.21	20209.444	2.0	33090.492	1.0
776.1261	14.00	-3.05	50054.800	4.0	62935.760	3.0
776.1273	18.00	-4.56	113643.260	1.0	126524.200	0.0
776.1448	25.01	-4.37	53805.800	4.0	66686.450	3.0
776.1514	6.00	-4.02	75255.270	2.0	88135.810	3.0
776.1860	92.00	-1.37	6936.547	0.0	19820.057	0.0
776.1990	25.01	-2.33	89800.340	4.0	102660.090	5.0
776.2050	8.01	-2.53	253048.350	2.5	265928.000	1.5
776.2237	7.01	-.41	174212.030	2.0	187091.370	2.0
776.2309	28.01	-2.16	121050.660	2.5	133929.880	3.5
776.3195	23.00	-3.92	26249.480	1.5	39127.230	1.5
776.3406	29.01	-2.19	135484.300	0.0	148361.700	1.0
776.3461	26.01	-5.93	25981.650	3.5	38858.960	2.5
776.3738	26.00	-4.87	45833.240	4.0	58710.090	3.0
776.3847	25.00	-4.36	38669.600	3.5	51546.270	4.5
776.4027	27.00	-1.32	40827.770	1.5	53704.140	2.5
776.4030	46.00	.61	35731.281	0.0	48611.190	0.0
776.4087	15.00	-2.70	66343.330	.5	79219.600	.5
776.4124	24.00	-2.28	36577.730	4.0	49453.940	4.0
776.4534	14.00	-2.33	49060.601	1.0	61936.130	1.0
776.4721	25.00	.50	43314.230	5.5	56189.450	4.5
776.4872	28.01	-.04	105439.850	1.5	118314.820	2.5
776.4926	24.00	-1.88	44514.440	7.0	57389.320	6.0
776.5161	28.01	-3.47	121178.560	3.5	134053.050	2.5
776.5686	28.01	-4.46	121194.140	2.5	134067.760	1.5
776.5700	40.00	-2.99	4113.534	0.0	16990.673	0.0
776.5994	26.01	-4.48	60270.370	3.5	73143.480	3.5
776.6006	23.01	-4.65	34228.790	3.0	47101.880	2.0
776.6024	28.01	-3.81	118923.200	3.5	131796.260	2.5
776.6078	23.00	-1.46	25130.960	2.5	38003.930	1.5
776.6232	22.00	-3.66	29986.185	3.0	42858.900	3.0
776.6550	40.00	-2.06	10969.423	0.0	23845.153	0.0
776.6573	25.00	-3.82	50359.280	3.5	63231.430	4.5
776.6721	26.00	-4.90	31805.059	3.0	44676.963	4.0
776.6773	17.00	-2.07	84132.262	2.5	97004.081	1.5
776.6929	28.01	-3.73	115120.000	2.5	127991.560	3.5
776.7456	22.00	-2.99	7255.369	2.0	20126.055	3.0
776.8136	28.01	-4.47	95893.760	1.5	108763.320	.5
776.8492	18.00	-1.18	113426.050	2.0	126295.020	3.0
776.8557	22.00	-4.30	29855.248	1.0	42724.110	2.0
776.8564	18.00	-2.59	113426.050	2.0	126294.900	3.0
776.8595	29.01	-1.77	137913.800	1.0	150782.600	2.0
776.8626	17.00	-2.36	84485.309	1.5	97354.057	1.5
776.8890	23.00	-.47	29296.430	2.5	42164.740	3.5
776.8957	28.01	-2.98	79923.880	4.5	92792.080	3.5
776.9163	17.00	-3.20	82918.893	2.5	95786.752	2.5
776.9530	23.00	-1.84	29202.800	1.5	42070.050	2.5
776.9588	22.00	-5.22	8602.340	2.0	21469.494	3.0
776.9754	28.01	-3.87	115000.250	3.5	127867.130	4.5
777.0310	10.01	-2.52	290371.950	2.5	303237.910	1.5
777.0400	20.00	-.78	35896.889	4.0	48762.700	3.0
777.0472	26.02	-4.04	186712.020	1.0	199577.710	2.0
777.0575	28.01	-4.05	115956.710	2.5	128822.230	1.5
777.1094	17.00	-1.48	83130.900	1.5	95995.561	.5
777.1095	21.00	.08	29096.200	3.5	41960.660	2.5
777.1218	22.00	-4.56	14028.470	2.0	26892.926	3.0
777.1398	22.00	-3.16	32857.721	3.0	45721.878	4.0
777.1409	28.01	-4.31	121090.710	.5	133954.850	.5
777.1759	24.00	-.97	38537.680	5.0	51401.240	5.0
777.1944	8.00	.35	73768.212	2.0	86631.466	3.0
777.2442	25.00	-4.85	35041.370	3.5	47903.800	4.5
777.2900	45.00	.17	29278.680	0.0	42143.891	0.0
777.3119	25.01	-4.99	53781.700	3.0	66643.010	4.0
777.3185	19.02	-1.66	225051.000	2.5	237912.200	1.5
777.3191	29.01	-1.10	108014.660	3.0	120875.650	2.0
777.3300	25.00	-3.45	38669.600	3.5	51530.610	3.5
777.3469	28.01	-4.48	121192.320	3.5	134053.050	2.5
777.3620	28.01	-3.99	121042.520	1.5	133903.000	1.5
777.3651	28.01	-2.88	121042.570	1.5	133903.000	1.5
777.3905	22.00	-2.60	18825.890	1.0	31685.900	0.0
777.3992	26.00	-4.20	45964.944	2.0	58824.810	2.0
777.4004	26.00	-4.50	40421.890	4.0	53281.735	5.0
777.4164	22.00	-2.58	34327.960	1.0	47187.540	2.0
777.4166	8.00	.21	73768.212	2.0	86627.790	2.0
777.4225	15.00	-3.12	66360.120	1.5	79219.600	.5
777.4570	28.01	-3.83	121194.140	2.5	134053.050	2.5
777.4697	23.00	-2.74	26736.310	4.5	39597.010	4.5
777.4793	24.00	-2.82	49812.460	3.0	62671.000	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
777.4995	20.00	-1.18	35818.713	3.0	48676.920	2.0
777.4995	20.00	-1.87	35818.713	3.0	48676.920	3.0
777.5198	24.00	-4.06	37244.170	4.0	50102.040	3.0
777.5277	28.01	-4.28	121115.590	1.5	133973.330	2.5
777.5387	8.00	-.01	73768.212	2.0	86625.769	1.0
777.6233	28.01	-.93	121385.800	1.5	134241.960	.5
777.6323	17.00	-2.18	85244.330	.5	98100.340	.5
777.6686	22.00	-3.76	31725.750	1.0	44581.160	2.0
777.7104	26.01	-5.52	25805.320	4.5	38660.040	3.5
777.7104	20.02	-.04	331403.200	1.0	344257.920	1.0
777.7356	17.00	-2.85	84988.480	1.5	97842.783	1.5
777.7606	24.00	-2.19	35398.020	4.0	48251.910	3.0
777.7685	19.00	-2.23	21534.700	2.5	34388.460	1.5
777.7703	22.01	-2.39	52458.980	1.5	65312.710	2.5
777.7795	17.00	-1.84	84485.309	1.5	97338.887	2.5
777.7872	9.01	-3.73	254546.490	2.0	267399.940	1.0
777.7914	25.01	-4.88	92060.800	1.0	104914.180	0.0
777.7960	14.00	-2.95	49028.294	0.0	61881.600	1.0
777.7969	24.00	-3.94	33671.550	3.0	46524.840	2.0
777.8402	26.00	-4.92	40894.972	2.0	53747.547	3.0
777.8405	20.02	.28	370304.540	2.0	383157.110	3.0
777.8459	26.00	-4.13	32873.623	4.0	45726.104	5.0
777.8520	24.01	-3.39	55023.300	2.5	67875.680	3.5
777.8526	24.00	-4.48	35934.020	6.0	48786.390	5.0
777.8544	28.01	-4.10	121050.660	2.5	133903.000	1.5
777.8738	29.01	-.17	120875.850	2.0	133727.870	2.0
777.8846	28.01	-4.22	122112.940	.5	134964.780	1.5
777.8913	24.00	-4.28	37205.880	3.0	50057.610	2.0
777.9076	19.00	-3.19	21537.000	1.5	34388.460	1.5
777.9258	19.00	-2.49	21537.000	1.5	34388.160	.5
777.9500	25.00	-3.10	51787.920	.5	64638.680	.5
777.9767	22.00	-3.53	33680.130	3.0	46530.450	4.0
777.9882	26.01	-4.62	66569.170	4.5	79439.300	3.5
778.0263	24.00	-4.05	49812.460	3.0	62661.960	3.0
778.0445	26.01	-4.70	86482.750	3.5	99331.950	4.5
778.0480	56.00	-.23	9215.000	0.0	22067.677	0.0
778.0523	26.00	-.07	36079.353	3.0	48928.423	2.0
778.0632	27.00	-3.30	27497.060	2.5	40345.950	2.5
778.0693	27.00	-4.15	42434.230	2.5	55283.020	2.5
778.0740	8.00	-3.83	101147.526	2.0	113996.239	3.0
778.0887	24.00	-1.27	44534.460	4.0	57382.930	5.0
778.0905	20.02	-.68	373401.870	3.0	386250.310	3.0
778.1226	20.02	-2.26	373401.870	3.0	386249.780	4.0
778.1293	15.01	-1.49	129110.600	1.0	141958.400	1.0
778.1565	9.02	-1.89	453343.620	2.5	466190.970	3.5
778.1656	24.01	-4.52	55023.300	2.5	67870.500	1.5
778.2068	20.02	.87	373401.870	3.0	386248.390	4.0
778.2098	28.01	-3.83	91800.050	4.5	104646.520	3.5
778.2177	25.00	-.75	43644.450	1.5	56490.790	2.5
778.2304	28.01	-3.76	100475.820	3.5	113321.950	4.5
778.2365	25.00	-4.45	38669.600	3.5	51515.630	2.5
778.2536	26.00	-3.43	47960.973	4.0	60806.720	3.0
778.3140	24.01	-3.92	55023.300	2.5	67868.050	2.5
778.3352	25.02	-3.94	124754.800	3.5	137599.200	3.5
778.3413	15.00	-3.73	65585.000	2.5	78429.300	3.5
778.3874	23.01	-3.39	36425.070	4.0	49268.610	4.0
778.4120	74.00	-1.99	18873.860	0.0	31720.527	0.0
778.4130	92.00	-2.38	564.603	0.0	13411.254	0.0
778.4131	26.00	-4.63	45428.385	4.0	58271.500	5.0
778.4246	22.00	-4.69	29768.655	2.0	42611.580	1.0
778.4401	18.01	-1.96	188766.150	2.5	201608.820	3.5
778.5106	20.00	-2.06	35835.413	2.0	48676.920	1.0
778.5106	20.00	-1.85	35835.413	2.0	48676.920	2.0
778.5106	20.00	-3.99	35835.413	2.0	48676.920	3.0
778.5201	21.00	-.64	25014.150	2.5	37855.500	2.5
778.5274	22.01	-3.24	52471.480	2.5	65312.710	2.5
778.5559	6.00	-3.85	75255.270	2.0	88096.030	2.0
778.5759	18.00	-4.67	111818.090	1.0	124658.520	2.0
778.5762	20.00	-1.27	35730.454	2.0	48570.880	1.0
778.5762	20.00	-1.70	35730.454	2.0	48570.880	2.0
778.5762	20.00	-3.53	35730.454	2.0	48570.880	3.0
778.5771	23.00	-3.88	21646.390	3.5	34486.800	2.5
778.5923	24.00	-3.81	35618.510	1.0	48458.670	2.0
778.6265	22.00	-3.22	36000.144	4.0	48839.740	3.0
778.6402	24.00	-4.24	49822.590	2.0	62661.960	3.0
778.6498	12.01	-2.19	92790.510	.5	105629.720	1.5
778.6589	15.00	-2.40	67971.140	.5	80810.200	1.5
778.6670	46.00	0.00	35973.254	0.0	48815.714	0.0
778.7026	28.01	-4.16	120144.170	2.5	132982.510	1.5
778.7038	24.00	-1.02	44534.460	4.0	57372.780	4.0
778.7208	6.00	-4.27	75253.970	1.0	88092.010	1.0
778.7498	22.00	-1.90	26803.417	2.0	39640.980	3.0
778.7712	25.01	-4.28	53805.800	4.0	66643.010	4.0
778.7724	28.01	-.38	108548.610	1.5	121385.800	1.5
778.7757	17.00	-1.99	83894.037	3.5	96731.172	3.5
778.7997	6.00	-3.08	75255.270	2.0	88092.010	1.0
778.8420	39.00	-1.37	16292.819	0.0	29132.394	0.0
778.8513	6.00	-4.86	75256.120	0.0	88092.010	1.0
778.8652	18.01	-2.33	183797.360	2.5	196633.020	2.5
778.8744	26.00	-3.55	33765.291	2.0	46600.800	1.0
778.8774	26.01	-2.74	72213.100	.5	85048.560	1.5
778.8936	28.00	-2.53	15734.018	1.0	28569.210	2.0
778.9344	27.00	-2.42	42434.230	2.5	55268.750	3.5
778.9575	24.00	-3.25	49812.460	3.0	62646.600	2.0
778.9654	27.00	-4.51	32841.990	4.5	45676.000	5.5
778.9721	8.01	-3.73	245767.800	.5	258601.700	1.5
778.9793	26.02	-4.15	186378.940	4.0	199212.720	4.0
778.9960	76.00	.06	34198.789	0.0	47035.625	0.0
779.0084	25.02	-4.39	179339.590	2.5	192172.690	2.5
779.0152	22.00	-2.78	34204.971	4.0	47038.160	3.0
779.0225	20.00	-3.73	35730.454	2.0	48563.522	2.0
779.0290	18.00	-4.13	111818.090	1.0	124651.050	1.0
779.0531	17.00	-1.17	84648.100	2.5	97480.664	1.5
779.0558	26.01	-3.22	72352.170	3.5	85184.690	4.5
779.0631	25.02	-2.26	121117.140	3.5	133949.540	4.5
779.0795	25.00	.07	43524.080	3.5	56356.210	3.5
779.0837	28.01	-3.30	120903.200	3.5	133735.260	2.5
779.0900	72.00	-1.04	17825.312	0.0	30660.800	0.0
779.0977	12.01	-2.49	92790.510	.5	105622.340	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
779.1007	28.01	-2.21	120903.200	3.5	133734.980	3.5
779.1353	22.00	-4.37	6742.757	4.0	19573.968	4.0
779.1457	23.00	-4.57	29202.800	1.5	42033.840	1.5
779.1610	45.00	.66	31456.433	0.0	44290.751	0.0
779.1860	44.00	.47	31133.803	0.0	43967.709	0.0
779.1967	19.02	-2.60	225082.000	1.5	237912.200	1.5
779.2240	60.01	-2.19	9275.615	0.0	22108.695	0.0
779.2346	22.00	-2.35	33700.874	4.0	46530.450	4.0
779.2878	29.01	-3.98	118484.000	3.0	131312.700	3.0
779.3352	27.00	-4.88	41528.530	5.5	54356.450	4.5
779.3528	26.01	-2.62	72043.210	1.5	84870.840	2.5
779.3558	22.01	-3.16	52631.070	3.5	65458.650	3.5
779.3601	28.01	-1.72	107082.210	2.5	119909.720	1.5
779.3674	24.01	-4.22	54678.950	4.5	67506.340	5.5
779.3892	23.00	-4.52	37757.240	.5	50584.270	1.5
779.3932	26.00	-4.27	24335.764	2.0	37162.729	3.0
779.4044	24.00	-3.82	44534.460	4.0	57361.240	3.0
779.4500	62.00	-.09	16131.504	0.0	28961.063	0.0
779.4609	20.02	-.16	327922.870	2.0	340748.720	2.0
779.4676	21.00	.21	29189.830	4.5	42015.570	3.5
779.4701	29.01	-3.42	135733.600	3.0	148559.300	2.0
779.4852	18.00	-4.02	111818.090	1.0	124643.540	1.0
779.5175	23.00	-4.43	15770.720	4.5	28595.640	3.5
779.5248	20.02	-2.11	373425.510	4.0	386250.310	3.0
779.5418	18.01	-.31	183797.360	2.5	196621.680	3.5
779.5570	20.02	-.56	373425.510	4.0	386249.780	4.0
779.5756	26.00	-4.01	24338.766	3.0	37162.729	3.0
779.6081	18.01	-4.56	173347.830	1.5	186171.260	.5
779.6239	20.02	.98	373425.510	4.0	386248.680	5.0
779.6320	39.00	-1.35	16454.134	0.0	29280.698	0.0
779.6415	20.02	-.66	373425.510	4.0	386248.390	4.0
779.6420	60.01	-2.13	10243.505	0.0	23069.905	0.0
779.6447	22.00	-4.84	6598.749	2.0	19421.576	3.0
779.6701	24.00	-2.17	35813.730	3.0	48636.140	3.0
779.6810	72.00	-1.12	23148.708	0.0	35974.466	0.0
779.7152	22.00	-5.71	13981.750	1.0	26803.417	2.0
779.7467	24.00	-3.99	33816.060	4.0	46637.210	3.0
779.7558	14.00	-2.65	49060.601	1.0	61881.600	1.0
779.7586	28.00	-.03	31441.665	2.0	44262.619	2.0
779.7619	28.02	-3.37	121412.200	2.0	134233.100	2.0
779.8221	23.00	-2.38	25111.500	4.5	37931.410	5.5
779.8312	28.01	-3.48	119909.720	1.5	132729.460	2.5
779.8324	23.00	-4.44	37834.980	1.5	50654.720	2.5
779.8385	28.01	-.66	121042.570	1.5	133862.210	1.5
779.8555	18.00	-2.74	106087.305	1.0	118906.665	2.0
779.8574	26.01	-3.79	50142.930	2.5	62962.260	1.5
779.8636	17.00	-.84	84988.480	1.5	97807.707	2.5
779.8720	21.00	-2.08	20237.100	4.5	33056.190	3.5
779.8837	14.00	-2.07	49850.830	2.0	62669.727	2.0
779.9036	24.00	-2.34	36552.130	3.0	49370.700	3.0
779.9180	14.00	-1.11	49850.830	2.0	62669.164	3.0
779.9474	26.02	-3.62	186882.980	3.0	199700.830	4.0
779.9541	23.00	-2.95	29296.430	2.5	42114.170	3.5
779.9996	14.00	-1.29	49850.830	2.0	62667.823	3.0
780.0052	28.01	.22	106283.160	2.5	119100.060	1.5
780.0091	22.00	-2.23	29907.273	2.0	42724.110	2.0
780.0215	9.00	-.02	105056.282	.5	117872.916	1.5
780.0268	37.00	.14	0.000	0.0	12820.072	0.0
780.0436	21.00	-.68	20239.920	3.5	33056.190	3.5
780.0740	28.01	.35	105499.050	3.5	118314.820	2.5
780.0740	40.00	-.96	21696.873	0.0	34516.170	0.0
780.0959	28.01	-4.13	110021.920	4.5	122837.330	4.5
780.0984	26.02	-4.83	105906.230	2.0	118721.600	2.0
780.1026	28.01	-4.70	120002.860	3.5	132818.160	4.5
780.1040	12.00	-2.40	47844.414	1.0	60659.690	2.0
780.1111	28.01	-2.29	121042.570	1.5	133857.730	.5
780.1264	26.01	-4.44	47626.140	.5	60441.050	1.5
780.1519	10.01	-2.27	279218.660	2.5	292033.150	2.5
780.1540	62.00	.34	19599.777	0.0	32417.759	0.0
780.1604	22.00	-3.09	18911.399	2.0	31725.750	1.0
780.1836	28.01	-1.85	115081.360	4.5	127895.330	3.5
780.2260	17.00	-1.61	84132.262	2.5	96945.536	2.5
780.2469	26.00	-2.12	41018.029	2.0	53830.960	3.0
780.2520	39.00	-1.88	15244.271	0.0	28060.643	0.0
780.2567	8.01	-3.89	253046.230	1.5	265859.000	.5
780.2839	22.00	-2.42	28702.768	3.0	41515.090	4.0
780.2859	28.01	-3.68	121090.710	.5	133903.000	1.5
780.2944	24.00	-1.67	36558.550	2.0	49370.700	3.0
780.3078	28.01	-4.24	120903.200	3.5	133715.130	4.5
780.3128	22.00	-2.97	29912.262	3.0	42724.110	2.0
780.3310	28.01	-.23	121050.660	2.5	133862.210	1.5
780.3320	63.00	-.85	15808.874	0.0	28623.932	0.0
780.3681	27.00	-4.39	39649.160	3.5	52460.100	2.5
780.3951	28.00	-2.88	43464.019	1.0	56274.516	2.0
780.4201	17.00	-2.57	88080.042	2.5	100890.130	2.5
780.4272	28.01	.58	115085.360	3.5	127895.330	3.5
780.4297	26.01	-4.22	72238.630	2.5	85048.560	1.5
780.4368	17.00	-.96	88080.042	2.5	100889.855	3.5
780.4860	28.00	-2.15	42767.900	3.0	55576.905	3.0
780.5150	12.00	-2.88	47851.162	2.0	60659.690	2.0
780.5192	29.01	-.14	120919.410	1.0	133727.870	2.0
780.5893	6.00	-4.16	75253.970	1.0	88061.280	1.0
780.5978	25.00	-.02	44814.730	1.5	57621.900	1.5
780.5979	20.00	-4.99	35730.454	2.0	48537.623	1.0
780.6295	25.00	-1.77	50099.160	1.5	62905.810	2.5
780.6637	8.02	-1.47	366486.910	1.0	379293.000	2.0
780.6686	6.00	-4.02	75255.270	2.0	88061.280	1.0
780.6820	44.00	.41	37183.117	0.0	49992.430	0.0
780.7502	28.01	-3.65	101247.370	2.5	114052.040	3.5
780.7539	26.00	-4.52	37046.000	4.0	49850.610	3.0
780.7606	28.01	.66	115081.360	4.5	127885.860	4.5
780.7655	29.01	.38	120789.630	4.0	133594.050	3.0
780.7731	26.00	-3.42	38175.332	3.0	50979.627	4.0
780.7911	29.01	-.73	137938.900	4.0	150742.900	3.0
780.7923	26.00	-1.49	40257.300	5.0	53061.280	5.0
780.8118	23.00	-4.02	26437.680	1.5	39241.340	2.5
780.8179	26.01	-6.94	26055.400	2.5	38858.960	2.5
780.8180	9.01	-3.37	243458.900	1.0	256262.460	1.0
780.8204	26.02	-3.45	186791.780	2.0	199595.300	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
780.8940	74.00	-2.71	14840.984	0.0	27646.819	0.0
780.9058	27.00	-8.71	13795.520	2.5	26597.640	1.5
780.9112	28.01	-4.99	121120.880	5.5	133922.910	4.5
780.9234	27.00	-4.61	16467.900	4.5	29269.730	4.5
780.9778	11.00	-2.43	25739.991	.5	38540.930	1.5
780.9954	17.00	-2.26	85244.330	.5	98044.980	1.5
781.0046	28.01	-.57	115085.360	3.5	127885.860	4.5
781.0236	11.00	-2.73	25739.991	.5	38540.180	.5
781.0290	27.00	-2.41	33945.900	2.5	46746.000	2.5
781.0528	28.01	-4.06	110021.920	4.5	122821.630	5.5
781.0534	28.01	-4.98	100609.010	2.5	113408.710	1.5
781.0546	9.01	-2.87	243462.780	2.0	256262.460	1.0
781.0777	26.00	-1.93	40594.413	4.0	53393.715	4.0
781.1019	22.00	-4.07	15108.121	3.0	27907.026	2.0
781.1123	12.00	-2.66	47957.028	2.0	60755.764	2.0
781.1123	12.00	-1.57	47957.028	2.0	60755.764	3.0
781.1123	12.00	-4.34	47957.028	2.0	60755.764	3.0
781.1133	12.00	-4.03	47957.045	3.0	60755.764	2.0
781.1133	12.00	-2.70	47957.045	3.0	60755.764	3.0
781.1133	12.00	-2.90	47957.045	3.0	60755.764	3.0
781.1133	12.00	-1.42	47957.045	3.0	60755.764	4.0
781.1140	12.00	-1.76	47957.056	1.0	60755.764	2.0
781.1150	25.00	-4.76	49591.510	1.5	62390.200	1.5
781.1222	22.00	-2.07	30060.328	4.0	42858.900	3.0
781.1657	24.00	-.67	44591.460	5.0	57389.320	6.0
781.1730	28.01	-.12	108763.320	.5	121561.060	.5
781.2160	39.00	-1.22	16696.107	0.0	29496.664	0.0
781.2298	29.01	-.71	122867.530	1.0	135664.340	1.0
781.2298	28.01	-4.73	92792.080	3.5	105588.890	4.5
781.2361	26.00	-3.05	47960.973	4.0	60757.680	4.0
781.2420	26.00	-3.72	45913.480	3.0	58710.090	3.0
781.2670	13.01	-1.39	125700.500	0.0	138496.700	1.0
781.3232	15.00	-2.27	66544.120	2.5	79339.400	1.5
781.3330	28.01	-1.54	105499.050	3.5	118294.170	3.5
781.3430	44.00	-1.73	20809.640	0.0	33608.116	0.0
781.3611	28.01	-3.63	95573.390	3.5	108368.050	2.5
781.3623	26.00	-2.97	41130.620	1.0	53925.260	1.0
781.3775	9.00	-2.25	115917.909	2.5	128712.300	1.5
781.3922	26.00	-3.45	47377.909	4.0	60172.060	4.0
781.3983	23.00	-3.21	26604.770	3.5	39398.820	3.5
781.4174	26.00	-4.15	47960.973	4.0	60754.710	4.0
781.4325	18.00	-2.21	107054.319	0.0	119847.810	1.0
781.4550	72.00	-1.52	14599.011	0.0	27395.653	0.0
781.4600	28.01	-3.93	121161.810	1.5	133954.850	.5
781.4643	24.00	-4.29	36577.730	4.0	49370.700	3.0
781.4967	26.02	-4.32	105929.160	3.0	118721.600	2.0
781.5132	23.00	-4.80	37959.660	2.5	50751.630	3.5
781.5144	15.01	-4.12	105550.450	2.0	118342.600	1.0
781.5219	17.00	-2.72	84688.637	.5	97480.664	1.5
781.5534	17.00	-3.11	88080.042	2.5	100871.554	3.5
781.5559	24.00	-.94	44591.460	5.0	57382.930	5.0
781.5900	71.00	-1.17	23955.283	0.0	36749.715	0.0
781.6005	29.01	-3.87	116326.160	3.0	129116.900	3.0
781.6152	13.01	-.92	125706.200	1.0	138496.700	1.0
781.6286	24.00	-3.99	36034.220	3.0	48824.500	4.0
781.6320	40.00	-2.71	5000.766	0.0	17794.510	0.0
781.6320	92.00	-.81	13066.518	0.0	25860.262	0.0
781.6390	20.02	-1.99	347417.050	3.0	360207.160	2.0
781.6653	25.00	.16	44696.290	2.5	57485.970	2.5
781.6849	28.01	-4.32	122175.420	2.5	134964.780	1.5
781.7090	28.00	-1.47	44314.980	4.0	57103.946	3.0
781.7191	24.01	-3.87	55081.700	1.5	67870.500	1.5
781.7197	28.01	-2.13	127219.970	3.5	140008.760	3.5
781.7429	20.02	-1.68	346732.190	1.0	359520.600	2.0
781.7980	26.01	-3.05	50157.610	4.5	62945.120	3.5
781.8141	22.00	-4.13	14105.680	3.0	26892.926	3.0
781.8206	27.00	-1.41	41528.530	5.5	54315.670	5.5
781.8210	63.00	-.40	19519.120	0.0	32309.772	0.0
781.8224	24.00	-3.21	35501.260	3.0	48288.370	4.0
781.8530	20.02	-1.52	327962.110	1.0	340748.720	2.0
781.8689	24.01	-3.59	55081.700	1.5	67868.050	2.5
781.8781	28.01	.36	127219.970	3.5	140006.170	4.5
781.8946	26.02	-4.99	186791.780	2.0	199577.710	2.0
781.8995	28.01	-3.84	116512.060	3.5	129297.910	3.5
781.9039	17.00	-2.34	88080.042	2.5	100865.620	2.5
781.9080	23.01	-2.71	36425.070	4.0	49210.780	3.0
781.9111	24.00	-3.39	33934.880	3.0	46720.540	4.0
781.9123	28.01	-2.81	121456.320	1.5	134241.960	.5
781.9264	8.01	-2.92	245816.290	1.5	258601.700	1.5
781.9320	17.00	-3.91	88080.042	2.5	100865.360	1.5
781.9350	40.00	-.57	14599.011	0.0	27387.798	0.0
782.0047	28.01	-4.71	88582.010	1.5	101366.140	2.5
782.0089	25.02	-4.79	179228.690	1.5	192012.750	1.5
782.0150	62.01	-1.82	11695.340	0.0	24482.619	0.0
782.0249	28.01	-4.54	120144.170	2.5	132927.970	1.5
782.0561	27.00	-4.61	33439.720	4.5	46223.010	4.5
782.0570	26.00	-4.44	21999.132	4.0	34782.406	5.0
782.0591	29.01	-.46	110084.290	1.0	122867.530	1.0
782.0628	26.00	-3.10	34636.820	2.0	47420.000	2.0
782.0774	20.01	-1.50	74464.920	.5	87267.860	.5
782.1054	22.00	-3.12	29829.097	0.0	42611.580	1.0
782.1227	29.01	-2.64	138593.100	1.0	151375.300	2.0
782.1246	25.00	.17	44523.450	3.5	57305.620	3.5
782.1282	16.01	-1.55	115817.000	2.5	128599.110	3.5
782.1350	29.01	-1.48	135733.600	3.0	148515.600	4.0
782.1361	17.00	-.48	82918.893	2.5	95700.874	3.5
782.1656	29.01	-4.68	118163.500	2.0	130945.000	2.0
782.1662	21.00	.34	29303.520	5.5	42085.010	4.5
782.1754	14.00	-1.41	49060.601	1.0	61841.940	2.0
782.1766	24.00	-3.28	44591.460	5.0	57372.780	4.0
782.1839	11.02	-4.99	399182.700	1.5	411963.900	1.5
782.2200	27.00	-4.75	42796.670	1.5	55577.280	1.5
782.2427	29.01	-2.10	123556.640	2.0	136336.680	1.0
782.2555	20.00	-.84	35896.889	4.0	48676.920	3.0
782.2586	9.00	-1.06	115917.909	2.5	128697.890	2.5
782.2923	24.00	-4.93	37883.340	2.0	50662.770	1.0
782.2940	40.00	-1.14	14034.408	0.0	26817.326	0.0
782.3326	15.00	-2.49	66343.330	.5	79122.100	1.5
782.3670	24.01	-4.53	55081.700	1.5	67859.910	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
782.3982	13.01	-.69	125719.000	2.0	138496.700	1.0
782.4128	28.00	-3.22	43933.428	2.0	56710.889	2.0
782.4441	22.00	-3.22	35685.160	6.0	48462.110	5.0
782.4729	28.01	.16	108548.610	1.5	121325.090	2.5
782.4735	28.01	.27	104298.230	4.5	117074.700	3.5
782.4910	45.00	.61	28956.050	0.0	41735.750	0.0
782.5200	60.01	-1.95	12340.601	0.0	25119.827	0.0
782.5452	25.02	-3.69	124823.900	4.5	137599.200	3.5
782.5458	23.00	-4.64	24727.850	2.5	37503.140	2.5
782.5501	22.00	-3.22	31805.940	2.0	44581.160	2.0
782.5654	29.01	.62	108014.660	3.0	120789.630	4.0
782.5668	22.00	-4.88	14028.470	2.0	26803.417	2.0
782.5856	23.00	-4.38	26352.590	2.5	39127.230	1.5
782.6481	23.00	-2.83	29296.430	2.5	42070.050	2.5
782.6616	17.01	-2.29	146013.000	2.0	158786.400	3.0
782.6720	40.00	-1.05	14276.381	0.0	27053.125	0.0
782.6766	28.00	-1.91	29832.810	3.0	42605.964	3.0
782.6775	23.02	-3.77	147606.500	3.5	160379.640	2.5
782.6849	23.00	-1.85	19189.280	1.5	31962.300	.5
782.6959	29.01	-4.09	116080.460	3.0	128853.300	2.0
782.7204	28.01	-3.78	116512.060	3.5	129284.500	2.5
782.7455	24.00	-4.72	28637.000	3.0	41409.030	2.0
782.7658	24.00	-2.45	33906.650	1.0	46678.350	1.0
782.7694	23.00	-3.83	21603.170	4.5	34374.810	3.5
782.7749	18.00	-3.10	113020.390	3.0	125791.940	2.0
782.7768	25.00	-2.52	51638.170	2.5	64409.690	3.5
782.7829	24.00	-4.14	37883.340	2.0	50654.760	2.0
782.8381	24.00	-3.51	31280.350	5.0	44050.870	4.0
782.8448	24.00	-2.77	33906.650	1.0	46677.060	2.0
782.8667	26.00	-4.85	48036.667	2.0	60806.720	3.0
782.8779	24.01	-2.31	54678.950	4.5	67448.820	4.5
782.9200	22.00	-3.66	35559.627	5.0	48328.810	4.0
782.9650	42.00	-1.58	20003.065	0.0	32775.028	0.0
782.9687	28.01	-4.12	122790.410	4.5	135558.800	4.5
782.9810	44.00	-.37	30085.255	0.0	42856.957	0.0
782.9938	28.01	-3.21	120144.170	2.5	132912.150	2.5
782.9952	22.00	-2.27	28788.372	4.0	41556.330	5.0
783.0020	28.00	-1.94	44336.100	4.0	57103.946	3.0
783.0226	28.01	-2.31	107142.210	1.5	119909.720	1.5
783.0594	26.01	-3.78	66672.390	3.5	79439.300	3.5
783.0625	28.01	-4.40	123434.600	4.5	136201.460	3.5
783.0698	20.02	.07	328582.450	1.0	341349.190	1.0
783.0735	21.00	-1.80	25014.150	2.5	37780.830	1.5
783.0744	17.00	-3.81	83130.900	1.5	95897.565	1.5
783.1054	22.00	-4.71	6556.828	1.0	19322.988	2.0
783.1392	24.00	-4.23	35870.530	4.0	48636.140	3.0
783.1649	23.00	-2.20	24992.880	3.5	37758.070	4.5
783.1803	22.00	-4.34	31489.451	4.0	44254.390	3.0
783.2073	27.00	-4.22	41918.410	3.5	54682.910	4.5
783.2165	26.00	.02	35767.546	4.0	48531.896	3.0
783.2551	24.00	-4.42	35897.870	2.0	48661.590	3.0
783.2637	6.00	-1.54	71352.510	0.0	84116.090	1.0
783.3025	14.00	-2.35	49060.601	1.0	61823.550	2.0
783.3390	44.00	-.05	32021.035	0.0	44786.900	0.0
783.3491	18.01	-4.28	202149.110	2.5	214911.300	2.5
783.3614	8.02	-1.02	366594.010	2.0	379356.600	3.0
783.3620	15.00	-2.21	66360.120	1.5	79122.100	1.5
783.4111	15.00	-2.46	65450.020	1.5	78211.200	2.5
783.4184	23.00	-3.53	26480.280	3.5	39241.340	2.5
783.4301	25.00	-.25	43428.580	4.5	56189.450	4.5
783.4320	77.00	.65	41941.910	0.0	54706.260	0.0
783.4331	26.02	-4.57	186378.940	4.0	199139.760	5.0
783.4399	25.00	-1.11	43595.500	2.5	56356.210	3.5
783.4460	64.00	-1.30	10808.108	0.0	23572.230	0.0
783.4483	22.00	-4.19	6661.003	3.0	19421.576	3.0
783.4620	23.00	-4.76	38115.650	3.5	50876.000	4.5
783.4658	22.00	-.55	27025.652	4.0	39785.940	4.0
783.4792	23.00	-4.26	20767.570	3.5	33527.640	2.5
783.5080	62.01	-1.11	14437.696	0.0	27200.608	0.0
783.5154	28.01	-3.95	103025.580	2.5	115785.060	1.5
783.5301	20.02	.46	370304.540	2.0	383063.780	3.0
783.5308	18.01	-3.80	145668.800	1.5	158428.030	.5
783.5309	13.00	-.67	32435.435	1.5	45194.663	2.5
783.5363	23.00	-3.49	29418.170	3.5	42177.310	4.5
783.5561	26.00	-3.61	38995.717	1.0	51754.534	1.0
783.5615	24.00	-2.75	36552.130	3.0	49310.860	3.0
783.5652	27.00	-4.15	42796.670	1.5	55555.340	2.5
783.5842	24.00	-4.69	35572.940	2.0	48331.300	1.0
783.5867	26.01	-4.69	47626.140	.5	60384.460	.5
783.5891	26.01	-4.08	86929.920	3.5	99686.200	3.5
783.6069	9.02	-4.56	444957.110	1.5	457715.100	2.5
783.6134	13.00	-.51	32436.778	2.5	45194.663	3.5
783.6134	13.00	-1.81	32436.778	2.5	45194.663	2.5
783.6168	26.02	-3.08	186454.890	5.0	199212.720	4.0
783.6573	26.01	-4.40	50187.950	3.5	62945.120	3.5
783.6588	14.00	-2.34	49399.670	1.0	62156.816	2.0
783.6807	20.02	-.05	370304.540	2.0	383061.330	2.0
783.6813	10.00	-4.74	159534.620	1.0	172291.400	2.0
783.7088	22.00	-3.50	29855.248	1.0	42611.580	1.0
783.7095	6.00	-1.46	71364.900	1.0	84121.220	0.0
783.7270	62.01	-1.49	12743.888	0.0	25505.433	0.0
783.7280	28.01	-3.58	121146.980	2.5	133903.000	1.5
783.7438	17.00	-3.70	72488.568	1.5	85244.330	.5
783.7538	17.01	-1.27	146013.000	2.0	158768.600	2.0
783.7599	15.00	-3.95	65585.000	2.5	78340.500	2.5
783.7678	22.00	-1.99	26657.409	4.0	39412.780	5.0
783.7925	25.01	-3.87	89950.400	3.0	102705.370	3.0
783.8017	22.00	-4.36	35454.051	4.0	48208.870	3.0
783.8078	28.01	-2.29	93528.440	3.5	106283.160	2.5
783.8134	27.00	-1.05	32027.500	3.5	44782.130	4.5
783.8500	5.02	.09	180202.000	0.0	192959.543	0.0
783.8557	10.01	-1.41	281332.550	.5	294086.490	1.5
783.8643	8.02	.19	367952.200	1.0	380706.000	2.0
783.8723	6.00	-3.32	70743.950	1.0	83497.620	2.0
783.8829	26.00	-4.08	45220.662	3.0	57974.160	2.0
783.8914	24.00	-2.68	33934.880	3.0	46668.240	3.0
783.9099	26.01	-3.64	50076.100	1.5	62829.160	.5
783.9172	25.01	-3.88	89950.400	3.0	102703.340	4.0
783.9252	18.01	-4.89	190592.170	1.5	203344.980	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
783.9387	24.00	-2.96	33935.650	2.0	46688.240	3.0
783.9446	22.00	-3.65	31628.668	5.0	44381.160	4.0
783.9496	17.00	-2.94	84485.309	1.5	97237.723	2.5
783.9560	24.00	-2.59	36558.550	2.0	49310.660	3.0
783.9570	56.00	-.09	24842.516	0.0	37598.318	0.0
783.9647	20.00	-1.22	35818.713	3.0	48570.680	2.0
783.9647	20.00	-1.91	35818.713	3.0	48570.680	3.0
783.9683	28.01	.26	104081.040	4.5	116833.150	4.5
783.9984	27.00	-1.95	33173.360	3.5	45924.980	3.5
784.0166	26.00	-4.93	36975.640	3.0	49726.964	4.0
784.0248	6.00	-1.93	71364.900	1.0	84116.090	1.0
784.0340	27.00	-4.52	35450.560	3.5	48201.600	3.5
784.0572	22.00	-3.44	7255.369	2.0	20006.032	2.0
784.0580	24.00	-1.24	35501.260	3.0	48251.910	3.0
784.0980	13.01	-2.95	133435.000	2.0	146185.000	2.0
784.0980	13.01	-2.22	133435.000	2.0	146185.000	1.0
784.0980	13.01	-4.50	133435.000	2.0	146185.000	3.0
784.1116	15.00	-1.93	67113.820	2.5	79863.600	3.5
784.1386	28.01	-4.41	121180.540	4.5	133929.680	3.5
784.1392	26.01	-3.86	50212.930	2.5	62962.260	1.5
784.1404	26.01	-3.74	31483.200	3.5	44232.510	4.5
784.1417	23.00	-4.92	37834.980	1.5	50584.270	1.5
784.1533	29.01	-3.58	133826.200	2.0	146575.300	2.0
784.1800	57.00	-2.08	3468.273	0.0	16220.447	0.0
784.1859	27.00	-4.99	36329.860	2.5	49078.430	1.5
784.1872	23.00	-4.16	31317.500	4.5	44066.050	3.5
784.1900	44.00	.49	36376.542	0.0	49126.554	0.0
784.1933	19.00	-2.27	21534.700	2.5	34283.150	1.5
784.1964	29.01	-2.86	135733.600	3.0	148482.000	3.0
784.2087	28.01	-4.46	122790.410	4.5	135538.610	5.5
784.2177	22.00	-.72	26892.926	3.0	39640.980	3.0
784.2401	27.00	-4.16	41041.430	3.5	53789.120	3.5
784.2509	14.00	-1.59	49188.617	2.0	61936.130	1.0
784.2610	27.00	-3.28	41041.430	3.5	53788.780	4.5
784.2760	73.00	-2.46	12179.286	0.0	24929.899	0.0
784.2911	22.00	-4.53	34535.040	2.0	47281.900	3.0
784.2978	14.00	-2.74	50189.389	2.0	62936.140	3.0
784.3065	20.02	.36	331403.200	1.0	344149.810	2.0
784.3090	23.00	-.61	29418.170	3.5	42164.740	3.5
784.3348	19.00	-3.22	21537.000	1.5	34283.150	1.5
784.3373	20.01	-1.20	74521.750	1.5	87267.860	.5
784.3465	26.01	-4.39	60270.370	3.5	73016.330	3.5
784.3533	26.01	-4.59	71964.810	2.5	84710.660	3.5
784.3582	27.00	-4.26	16470.600	1.5	29216.370	2.5
784.3582	19.00	-2.52	21537.000	1.5	34282.770	.5
784.3730	28.01	-2.87	121227.800	2.5	133973.330	2.5
784.3755	29.01	-4.31	116371.410	4.0	129116.900	3.0
784.3966	26.00	-3.51	45964.944	2.0	58710.090	3.0
784.4001	8.02	-.53	366486.910	1.0	379232.000	1.0
784.4174	20.00	-3.66	35818.713	3.0	48563.522	2.0
784.4198	24.00	-3.65	37883.340	2.0	50628.110	3.0
784.4247	25.00	-4.42	49888.060	3.5	62632.770	3.5
784.4302	13.01	-2.05	133440.400	3.0	146185.000	2.0
784.4302	13.01	-2.95	133440.400	3.0	146185.000	3.0
784.4520	26.00	-2.88	38995.717	1.0	51739.964	2.0
784.4745	26.01	-4.98	60445.280	2.5	73189.160	1.5
784.4820	62.01	-1.73	13953.751	0.0	26701.016	0.0
784.4870	64.00	-1.24	10243.505	0.0	22990.689	0.0
784.4961	29.01	-1.99	108335.430	2.0	121078.960	3.0
784.5078	29.01	.26	123016.630	3.0	135759.970	2.0
784.5269	26.01	-3.55	72429.740	.5	85172.770	.5
784.5336	28.01	-4.73	122837.330	4.5	135580.250	4.5
784.5350	72.00	-1.66	5565.369	0.0	18311.773	0.0
784.5472	24.00	-3.24	33935.650	2.0	46678.350	1.0
784.5490	28.01	-2.53	121325.090	2.5	134067.760	1.5
784.5601	15.01	-.04	88894.000	1.0	101636.490	1.0
784.5650	20.02	-1.73	328606.780	2.0	341349.190	1.0
784.5675	28.01	-4.73	121180.540	4.5	133922.910	4.5
784.5792	24.00	-3.50	33934.880	3.0	46677.060	2.0
784.5800	64.00	-.22	19035.175	0.0	31780.848	0.0
784.6266	24.00	-2.34	33935.650	2.0	46677.060	2.0
784.6402	28.01	-3.07	121161.810	1.5	133903.000	1.5
784.6500	45.00	-1.54	16050.847	0.0	28795.383	0.0
784.6560	72.00	-1.13	23148.708	0.0	35893.146	0.0
784.6568	18.01	-.83	189040.870	1.5	201781.790	2.5
784.6580	18.01	-4.20	189414.960	3.5	202155.660	2.5
784.7228	14.00	-3.76	51612.012	0.0	64351.860	1.0
784.7800	44.00	.48	30085.255	0.0	42827.680	0.0
784.7972	26.00	-3.88	40421.890	4.0	53160.530	3.0
784.8052	23.00	-4.43	20789.130	2.5	33527.640	2.5
784.8243	29.01	-2.25	134359.900	1.0	147098.100	0.0
784.8244	6.00	-.92	71364.900	1.0	84103.100	2.0
784.8382	22.00	-1.75	26564.385	3.0	39302.360	4.0
784.8410	23.00	-4.61	15724.220	3.5	28462.150	2.5
784.8413	22.00	-2.08	29986.185	3.0	42724.110	2.0
784.8450	90.00	-2.17	8711.012	0.0	21452.381	0.0
784.8484	24.00	-4.91	52064.270	4.0	64802.080	5.0
784.8552	13.01	-1.89	133447.300	4.0	146185.000	3.0
784.8638	28.01	-4.92	121192.320	3.5	133929.680	3.5
784.8817	14.01	.29	101023.310	1.5	113760.580	2.5
784.9020	9.02	.04	458594.860	2.5	471331.600	2.5
784.9345	14.00	-3.08	50189.389	2.0	62925.800	1.0
784.9350	40.00	-1.78	5484.711	0.0	18224.619	0.0
784.9395	18.01	-2.65	147503.020	1.5	160239.350	1.5
784.9537	20.02	-.04	331048.860	0.0	343784.960	1.0
784.9617	14.01	-.85	101024.610	2.5	113760.580	2.5
784.9628	14.00	-3.23	49933.775	3.0	62669.727	2.0
784.9722	14.01	.45	101024.610	2.5	113760.410	3.5
784.9927	20.00	-2.10	35835.413	2.0	48570.880	1.0
784.9927	20.00	-1.88	35835.413	2.0	48570.880	2.0
784.9927	20.00	-4.02	35835.413	2.0	48570.880	3.0
784.9932	23.00	-4.07	26505.880	2.5	39241.340	2.5
784.9966	14.00	-.96	49933.775	3.0	62669.179	4.0
784.9975	14.00	-3.42	49933.775	3.0	62669.164	3.0
785.0092	13.01	-.88	133679.300	3.0	146414.500	4.0
785.0092	13.01	-.70	133679.300	3.0	146414.500	4.0
785.0092	13.01	-4.87	133679.300	3.0	146414.500	3.0
785.0802	14.00	-2.00	49933.775	3.0	62667.823	3.0
785.0968	10.00	-4.89	159534.620	1.0	172268.400	1.0
785.1301	26.00	-3.98	40421.890	4.0	53155.130	4.0
785.1368	24.00	-1.96	36577.730	4.0	49310.860	3.0
785.1800	28.01	-4.04	121240.900	3.5	133973.330	2.5
785.1948	26.01	-3.03	50212.930	2.5	62945.120	3.5
785.2170	76.00	-2.29	15082.956	0.0	27818.289	0.0
785.2435	27.00	-1.52	42434.230	2.5	55165.630	2.5
785.2680	22.00	-2.87	6842.964	5.0	19573.968	4.0
785.2711	22.00	-4.26	15156.787	4.0	27887.740	3.0
785.2830	28.01	.02	106369.300	1.5	119100.060	1.5
785.2860	6.00	-1.42	71385.380	2.0	84116.090	1.0
785.3052	29.01	-2.65	133826.200	2.0	146556.600	3.0
785.3379	23.00	-4.99	26397.360	.5	39127.230	1.5
785.3428	18.00	-1.05	112138.980	2.0	124866.770	3.0
785.3596	26.00	-3.03	41018.029	2.0	53747.547	3.0
785.3978	29.01	-4.60	116388.000	2.0	129116.900	3.0
785.4126	25.00	-2.38	37630.620	4.5	50359.280	3.5
785.4450	42.00	-.78	26939.612	0.0	39671.248	0.0
785.4466	20.00	-3.29	35835.413	2.0	48563.522	2.0
785.4558	26.01	-2.23	121325.090	2.5	134053.050	2.5
785.5125	28.00	-1.48	36600.805	2.0	49327.845	2.0
785.5324	22.00	-3.16	28788.372	4.0	41515.090	4.0
785.5403	26.00	-2.12	40842.130	3.0	53568.720	2.0
785.5447	18.01	-4.42	173347.830	1.5	186074.350	2.5
785.5520	39.00	-.96	17018.737	0.0	29748.639	0.0
785.5523	14.00	-4.53	47284.061	1.0	60010.458	1.0
785.5638	18.00	-2.48	112138.980	2.0	124865.190	2.0
785.5731	18.00	-2.09	112138.980	2.0	124865.040	3.0
785.5829	27.00	-1.36	33150.680	1.5	45876.580	2.5
785.5829	13.01	-4.79	132213.200	1.0	144939.100	1.0
785.6391	28.01	-2.86	120144.170	2.5	132869.160	3.5
785.6855	22.00	-4.60	6598.749	2.0	19322.988	2.0
785.6930	64.00	-1.16	6936.547	0.0	19664.165	0.0
785.7328	22.00	-.87	26803.417	2.0	39526.890	2.0
785.8281	15.00	-1.69	68088.270	1.5	80810.200	1.5
785.8454	27.00	-3.91	40621.620	1.5	53343.270	1.5
785.8565	28.01	-4.12	122837.330	4.5	135558.800	4.5
785.8664	28.01	-4.14	116145.690	3.5	128867.000	3.5
785.9084	26.02	-3.21	186882.980	3.0	199603.610	4.0
785.9220	20.01	-3.38	78034.390	2.5	90754.800	2.5
785.9220	20.01	-2.08	78034.390	3.5	90754.800	2.5
785.9257	26.01	-2.39	71964.810	2.5	84685.160	3.5
785.9437	22.00	-1.83	26494.322	2.0	39214.380	3.0
785.9530	62.00	.05	18873.860	0.0	31597.267	0.0
785.9764	20.01	-2.24	78034.390	2.5	90753.920	1.5
785.9782	29.01	-4.94	122416.100	0.0	135135.600	1.0
786.0117	22.00	-2.24	28896.062	5.0	41615.020	6.0
786.0437	18.00	-1.83	112138.980	2.0	124657.420	2.0
786.0529	18.00	-2.58	112138.980	2.0	124857.270	1.0
786.0585	29.01	-1.32	120875.850	2.0	133594.050	3.0
786.0610	23.00	-4.97	38482.960	6.5	51201.120	6.5
786.0882	6.00	-.73	71385.380	2.0	84103.100	2.0
786.1043	28.00	-2.08	29888.505	2.0	42605.964	3.0
786.1142	26.02	-4.63	193610.920	3.0	206326.220	3.0
786.1339	28.01	-3.98	122821.630	5.5	135538.610	5.5
786.1420	26.02	-4.04	193611.370	4.0	206326.220	3.0
786.1451	28.01	-4.12	116145.690	3.5	128862.490	4.5
786.1593	24.00	-2.10	35501.260	3.0	48217.830	2.0
786.1786	26.00	-2.67	47960.973	4.0	60677.230	5.0
786.1797	23.00	-2.17	24898.730	2.5	37614.970	3.5
786.1911	18.00	-2.88	107131.755	1.0	119847.810	1.0
786.2087	8.01	-2.89	253046.230	1.5	265762.000	1.5
786.2322	23.02	-3.10	147606.500	3.5	160321.890	2.5
786.2656	24.01	-3.76	54678.950	4.5	67393.800	3.5
786.2780	23.00	-3.72	20812.990	1.5	33527.640	2.5
786.2780	8.01	-2.46	253048.350	2.5	265763.000	3.5
786.2941	10.01	-.39	290803.820	.5	303518.210	1.5
786.3256	23.00	-3.25	20767.570	3.5	33481.450	3.5
786.3399	8.01	-3.54	253048.350	2.5	265762.000	1.5
786.3460	74.00	-2.22	20325.695	0.0	33042.743	0.0
786.3650	62.01	-1.46	14034.408	0.0	26751.149	0.0
786.3652	22.01	-3.50	52471.480	2.5	65184.720	3.5
786.3772	28.00	-1.34	36600.805	2.0	49313.651	3.0
786.3930	24.00	-3.78	35612.510	1.0	48331.300	1.0
786.4221	26.02	-4.20	186862.980	3.0	199595.300	3.0
786.4914	28.01	-2.59	122847.600	3.5	135558.800	4.5
786.5124	19.00	-3.35	21026.580	.5	33737.440	1.5
786.5223	17.01	-4.27	146013.000	2.0	158723.700	1.0
786.5236	25.00	-2.82	37630.620	4.5	50341.300	4.5
786.5644	19.00	-3.65	21026.580	.5	33736.600	.5
786.6294	9.02	-3.35	445006.130	2.5	457715.100	2.5
786.6362	28.01	-3.17	121194.140	2.5	133903.000	1.5
786.6529	25.02	-3.39	179683.610	4.5	192392.200	3.5
786.6579	18.00	-3.81	111667.870	0.0	124376.380	1.0
786.6734	10.01	-2.56	279324.890	1.5	292033.150	2.5
786.6783	28.01	-4.67	116145.690	3.5	128853.670	2.5
786.7030	74.00	-3.01	16292.819	0.0	29004.096	0.0
786.7285	28.01	-3.81	117074.700	3.5	129782.070	3.5
786.7483	26.00	-3.58	45294.830	5.0	58001.680	6.0
786.7532	28.01	-4.67	92792.080	3.5	105499.050	3.5
786.8194	16.00	-1.90	107054.319	0.0	119760.220	1.0
786.8579	28.01	.42	105588.890	4.5	118294.170	3.5
786.8746	16.01	-1.63	140708.510	2.5	153413.520	3.5
786.8750	92.00	-1.71	3710.246	0.0	16418.745	0.0
786.9000	22.00	-.58	35757.510	4.0	48462.110	5.0
786.9155	23.00	-6.32	13801.530	1.5	26505.680	2.5
786.9181	22.00	-2.56	29907.273	2.0	42611.560	1.0
786.9473	20.00	-2.23	35730.454	2.0	48434.290	1.0
786.9473	20.00	-2.66	35730.454	2.0	48434.290	2.0
786.9473	20.00	-4.50	35730.454	2.0	48434.290	3.0
786.9525	26.00	-2.47	40842.130	3.0	53545.882	3.0
786.9580	26.00	-3.91	35257.309	4.0	47960.973	4.0
786.9720	64.00	-1.03	11211.395	0.0	23918.327	0.0
786.9855	27.00	-2.88	33173.360	3.5	45876.580	2.5
786.9990	40.00	-2.19	5484.711	0.0	18191.207	0.0
787.0183	28.01	-2.44	100619.260	4.5	113321.950	4.5
787.0388	28.01	-3.62	120144.170	2.5	132846.530	3.5
787.0468	26.02	-2.89	186998.600	4.0	199700.830	4.0
787.0481	20.00	-3.51	35835.413	2.0	48537.623	1.0
787.0636	15.00	-2.01	67971.140	.5	80673.100	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
787.0871	17.00	-2.40	88188.550	1.5	100890.130	2.5
787.1057	28.01	-2.46	122837.330	4.5	135538.610	5.5
787.1360	27.00	-2.23	33674.380	2.5	46375.170	1.5
787.1918	10.01	-.95	290371.950	2.5	303071.840	2.5
787.2476	8.02	-.13	366594.010	2.0	379293.000	2.0
787.2563	8.01	-2.61	245902.850	2.5	258601.700	1.5
787.3253	22.00	-5.45	14105.680	3.0	26803.417	2.0
787.3313	29.01	-3.83	116080.460	3.0	128778.100	4.0
787.3381	27.00	-2.16	43847.980	3.5	56545.510	2.5
787.3410	41.00	-1.78	14760.326	0.0	27461.303	0.0
787.3871	10.01	-.20	290583.170	1.5	303279.910	2.5
787.4330	23.00	-3.87	29418.170	3.5	42114.170	3.5
787.5006	28.01	.35	106620.530	3.5	119315.440	2.5
787.5050	28.01	-2.01	101357.200	4.5	114052.040	3.5
787.5118	26.02	-4.19	186882.980	3.0	199577.710	2.0
787.5403	14.00	-4.77	49850.830	2.0	62545.100	1.0
787.5433	12.00	-2.13	47841.119	0.0	60535.340	1.0
787.5434	24.00	-3.02	33040.100	2.0	45734.320	2.0
787.5564	9.00	-2.13	115917.909	2.5	128611.920	1.5
787.6191	28.01	-.77	108763.320	.5	121456.320	1.5
787.6202	14.00	-3.22	49188.617	2.0	61881.600	1.0
787.6250	40.00	-.52	22261.476	0.0	34957.873	0.0
787.6342	22.00	-3.35	28788.372	4.0	41481.130	5.0
787.6384	28.01	-2.88	121042.570	1.5	133735.260	2.5
787.6598	26.00	-4.23	45281.816	2.0	57974.160	2.0
787.6613	23.00	-3.55	20789.130	2.5	33481.450	3.5
787.6707	26.00	-3.87	38678.015	2.0	51370.184	2.0
787.6799	25.02	-1.94	218669.260	1.5	231361.280	2.5
787.7054	12.01	.39	80619.500	.5	93311.110	1.5
787.7346	25.00	-4.21	34463.370	1.5	47154.510	1.5
787.7479	12.00	-2.25	47844.414	1.0	60535.340	1.0
787.7479	12.00	-1.95	47844.414	1.0	60535.340	2.0
787.7565	17.00	-3.42	84648.100	2.5	97338.887	2.5
787.7817	24.01	-2.39	54678.950	4.5	67369.330	5.5
787.8022	29.01	-3.70	135952.550	2.0	148642.600	2.0
787.8217	17.00	-2.17	71958.363	2.5	84648.100	2.5
787.8644	6.00	-4.82	85188.950	1.0	97878.000	2.0
787.9182	9.00	-.69	115917.909	2.5	128606.090	2.5
787.9605	17.01	-3.05	128662.500	2.0	141350.000	3.0
787.9716	26.00	-2.00	40594.413	4.0	53281.735	5.0
787.9953	26.00	-3.58	45833.240	4.0	58520.180	4.0
787.9961	28.00	-1.26	45281.152	3.0	57968.080	3.0
788.0070	62.01	-2.12	10888.765	0.0	23579.008	0.0
788.0078	25.02	-4.85	179228.690	1.5	191915.430	.5
788.0340	74.00	-2.88	14840.984	0.0	27530.792	0.0
788.0599	28.01	-3.95	101366.140	2.5	114052.040	3.5
788.0624	28.01	.54	104147.290	5.5	116833.150	4.5
788.1102	14.00	-3.56	50189.389	2.0	62874.480	2.0
788.1239	26.02	-3.36	186454.890	5.0	199139.760	5.0
788.1407	23.01	-2.37	44657.990	2.0	57342.590	2.0
788.1407	28.01	-3.96	121050.660	2.5	133735.260	2.5
788.1490	44.00	.68	28391.447	0.0	41079.403	0.0
788.1581	28.01	-2.51	121050.660	2.5	133734.980	3.5
788.1670	12.00	-3.43	47851.162	2.0	60535.340	1.0
788.1670	12.00	-2.43	47851.162	2.0	60535.340	2.0
788.1670	12.00	-1.51	47851.162	2.0	60535.340	3.0
788.1681	27.00	-4.68	41104.960	2.5	53789.120	3.5
788.1780	13.02	.31	165786.320	2.5	178470.320	1.5
788.1836	24.00	-5.00	44666.740	1.0	57350.650	2.0
788.1900	39.01	-1.24	14760.326	0.0	27447.622	0.0
788.1923	27.00	-4.32	41041.430	3.5	53725.200	4.5
788.1929	22.00	-2.18	36340.670	2.0	49024.430	3.0
788.1940	92.00	-.82	6210.629	0.0	18897.861	0.0
788.2180	40.00	-2.67	4355.506	0.0	17042.352	0.0
788.2365	18.01	-2.73	202149.110	2.5	214832.170	3.5
788.2370	73.00	-1.88	11130.738	0.0	23817.278	0.0
788.2519	13.02	-.64	165787.510	1.5	178470.320	1.5
788.2644	28.01	-.76	108368.050	2.5	121050.660	2.5
788.2718	22.00	-6.04	7255.369	2.0	19937.859	1.0
788.2768	25.02	-2.69	218705.250	2.5	231387.660	3.5
788.2960	9.02	-4.21	430012.480	1.5	442694.580	1.5
788.3048	28.01	-2.67	121385.800	1.5	134067.760	1.5
788.3085	25.02	-3.22	124754.800	3.5	137436.700	4.5
788.3222	24.00	-3.24	42292.960	1.0	54974.640	2.0
788.3247	22.01	-4.72	52631.070	3.5	65312.710	2.5
788.3667	26.00	-4.46	37046.000	4.0	49726.964	4.0
788.3707	28.01	-1.13	121561.060	.5	134241.960	.5
788.4390	64.00	-2.02	7420.492	0.0	20103.781	0.0
788.4391	18.01	-2.73	189040.870	1.5	201720.670	1.5
788.4490	6.00	-1.58	71352.510	0.0	84032.150	1.0
788.4826	24.00	-3.06	33040.100	2.0	45719.200	1.0
788.4907	24.00	-.89	35572.940	2.0	48251.910	3.0
788.5001	22.00	-3.22	6742.757	4.0	19421.576	3.0
788.5106	29.01	-3.21	135952.550	2.0	148631.200	3.0
788.5268	26.01	-6.63	25981.650	3.5	38660.040	3.5
788.5286	16.01	-2.77	152094.340	2.5	164772.700	3.5
788.5310	41.00	-1.77	11453.368	0.0	24135.178	0.0
788.5585	23.00	-1.48	25253.530	5.5	37931.410	5.5
788.5659	24.00	-4.79	35884.400	5.0	48562.160	4.0
788.5965	17.00	-.68	88188.550	1.5	100865.820	2.5
788.6033	28.01	.23	127331.600	2.5	140008.760	3.5
788.6205	7.00	-2.66	97770.150	.5	110447.032	1.5
788.6250	17.00	-1.37	88188.550	1.5	100865.360	1.5
788.6280	90.00	-2.24	6291.287	0.0	18971.537	0.0
788.6470	74.00	-2.99	13227.833	0.0	25907.777	0.0
788.6518	22.01	-2.18	52631.070	3.5	65307.450	4.5
788.6841	22.00	-.70	35652.950	3.0	48328.810	4.0
788.6866	14.02	-4.31	214989.270	2.0	227665.090	2.0
788.7059	26.00	-3.26	35856.386	2.0	48531.896	3.0
788.7594	24.01	-3.11	54678.950	4.5	67353.600	4.5
788.7675	28.01	-1.12	108368.050	2.5	121042.570	1.5
788.7712	20.02	-3.27	370515.360	3.0	383189.620	4.0
788.7740	42.00	-1.05	27181.584	0.0	39859.487	0.0
788.7775	25.00	-3.41	37420.240	5.5	50094.600	6.5
788.7775	6.00	-3.50	85203.640	2.0	97878.000	2.0
788.7990	63.00	.02	17825.312	0.0	30502.813	0.0
788.8004	20.00	-.88	35896.889	4.0	48570.880	3.0
788.8260	24.00	-2.79	33060.740	3.0	45734.320	2.0
788.8522	25.02	-4.08	179339.590	2.5	192012.750	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
788.8609	23.00	-2.21	14514.750	1.5	27167.770	2.5
788.8646	23.00	-2.25	24830.180	1.5	37503.140	2.5
788.8939	28.01	-4.51	121180.550	5.5	133853.040	4.5
788.9120	15.00	-4.21	64239.500	.5	76911.700	.5
788.9468	24.00	-4.96	29584.620	2.0	42256.260	3.0
788.9607	9.00	-2.00	116040.883	1.5	128712.300	1.5
788.9717	25.00	-.97	44814.730	1.5	57485.970	2.5
789.0008	28.00	-3.15	36600.805	2.0	49271.578	3.0
789.0161	28.00	-1.59	31441.665	2.0	44112.192	1.0
789.0215	14.02	-.11	214994.650	1.0	227665.090	2.0
789.0365	24.00	-3.08	42538.810	3.0	55209.010	4.0
789.0370	44.00	.20	30165.913	0.0	42839.590	0.0
789.0489	29.01	-1.76	133826.200	2.0	146496.200	3.0
789.0551	24.00	-4.65	29584.620	2.0	42254.520	2.0
789.0558	29.01	-.60	108014.660	3.0	120684.550	3.0
789.0725	22.00	-4.52	33980.639	2.0	46650.260	3.0
789.1069	18.00	-2.04	106237.597	2.0	118906.665	2.0
789.1218	14.00	-4.21	49850.830	2.0	62519.660	2.0
789.1237	24.00	-4.65	29584.620	2.0	42253.420	1.0
789.2015	9.02	-.34	458336.270	.5	471003.820	1.5
789.2202	28.01	-3.71	121385.800	1.5	134053.050	2.5
789.2202	6.00	-2.41	71364.900	1.0	84032.150	1.0
789.2732	28.02	-2.75	121566.700	1.0	134233.100	2.0
789.2924	22.00	-3.75	28702.768	3.0	41368.660	4.0
789.3096	28.00	-3.15	46522.965	2.0	59188.780	3.0
789.3343	17.00	-2.28	84688.637	.5	97354.057	1.5
789.3374	25.00	-1.88	43524.080	3.5	56189.450	4.5
789.3957	7.00	-1.99	97805.810	1.5	110470.244	2.5
789.4219	17.00	-2.13	84485.309	1.5	97149.323	.5
789.4913	13.01	-2.52	133914.100	2.0	146577.000	1.0
789.5120	70.00	-1.45	24600.544	0.0	37266.596	0.0
789.5484	22.00	-3.94	6661.003	3.0	19322.968	2.0
789.5799	29.01	.29	110084.290	1.0	122745.770	2.0
789.5960	62.00	.18	16776.764	0.0	29441.468	0.0
789.6042	12.01	-.31	80650.020	1.5	93311.110	1.5
789.6054	25.00	-3.60	37420.240	5.5	50081.310	5.5
789.6161	9.00	-3.97	104731.050	1.5	117391.950	.5
789.6285	24.00	-4.28	35897.870	2.0	48558.570	2.0
789.6285	27.00	-3.04	41041.430	3.5	53702.130	3.5
789.6367	12.01	.65	80650.020	1.5	93310.590	2.5
789.6404	23.00	-3.87	26738.310	4.5	39398.820	3.5
789.6555	22.00	-3.34	28896.062	5.0	41556.330	5.0
789.7202	28.01	-3.61	122441.220	4.5	135100.450	3.5
789.7246	7.01	-.42	202170.630	1.0	214829.790	1.0
789.7281	14.00	-2.42	50566.397	1.0	63225.500	2.0
789.7489	8.01	-2.25	253046.230	1.5	265705.000	2.5
789.7516	28.00	-1.14	44314.980	4.0	56973.707	5.0
789.7980	40.00	-2.91	4113.534	0.0	16774.999	0.0
789.8025	17.00	-3.09	85442.430	1.5	98100.340	.5
789.8138	20.02	-1.26	328090.990	2.0	340748.720	2.0
789.8150	18.01	-3.97	202253.590	1.5	214911.300	2.5
789.8419	20.02	.53	327922.870	2.0	340580.150	3.0
789.8487	9.02	-4.25	427545.310	1.5	440202.480	2.5
789.8512	20.02	.95	370533.070	4.0	383190.200	5.0
789.8589	9.00	-.33	116040.883	1.5	128697.890	2.5
789.8749	20.02	-.72	370533.070	4.0	383189.820	4.0
789.8812	8.01	-4.73	253048.350	2.5	265705.000	2.5
789.8982	7.00	.12	99663.427	2.5	112319.805	1.5
789.9199	25.02	-3.47	218705.250	2.5	231361.280	2.5
789.9284	7.00	-.83	99663.912	1.5	112319.805	1.5
789.9310	17.00	-2.79	83130.900	1.5	95786.752	2.5
789.9437	17.00	-1.95	85735.091	1.5	98390.740	.5
789.9567	28.01	-2.88	121317.890	3.5	133973.330	2.5
789.9686	24.01	-3.41	54678.950	4.5	67334.200	3.5
789.9881	22.00	-.67	26494.322	2.0	39149.260	2.0
789.9935	28.01	-4.41	95893.760	1.5	108548.610	1.5
790.0004	10.01	-3.20	290583.170	1.5	303237.910	1.5
790.0154	27.00	-7.28	13795.520	2.5	26450.020	2.5
790.0320	90.01	-2.14	12098.628	0.0	24756.343	0.0
790.0430	92.00	-1.81	4194.191	0.0	16851.730	0.0
790.0672	26.01	-7.47	25805.320	4.5	38458.990	4.5
790.0889	14.00	-1.08	49188.617	2.0	61841.940	2.0
790.0903	27.00	-4.68	42796.670	1.5	55449.970	2.5
790.1372	23.00	-3.93	24770.620	.5	37423.170	1.5
790.1496	25.00	-4.72	37420.240	5.5	50072.590	4.5
790.1577	26.00	-3.90	36975.640	3.0	49627.861	4.0
790.1790	23.00	-3.25	29418.170	3.5	42070.050	2.5
790.1872	28.00	-1.89	44206.185	3.0	56857.933	4.0
790.2246	23.01	-4.55	34228.790	3.0	46879.940	2.0
790.2558	29.01	.49	110365.980	2.0	123016.630	3.0
790.2696	23.00	-4.57	31268.150	3.5	43918.580	2.5
790.2967	22.00	-.50	26564.385	3.0	39214.380	3.0
790.2983	27.00	-4.76	20500.710	1.5	33150.680	1.5
790.3645	29.01	-2.17	121078.960	3.0	133727.870	2.0
790.4041	22.00	-1.63	20209.444	2.0	32857.721	3.0
790.4120	26.01	-3.93	72524.620	1.5	85172.770	.5
790.4290	92.00	-1.49	8065.752	0.0	20717.110	0.0
790.4352	15.00	-2.93	67113.820	2.5	79761.600	2.5
790.4789	18.01	-.64	183985.940	1.5	196633.020	2.5
790.4982	6.00	-1.62	71385.380	2.0	84032.150	1.0
790.5108	23.00	-1.69	25111.500	4.5	37758.070	4.5
790.5439	28.01	.19	105668.780	2.5	118314.620	2.5
790.5514	13.02	.06	165787.510	1.5	178433.430	.5
790.5750	56.00	.25	13514.000	0.0	26163.021	0.0
790.6042	26.00	-4.92	33765.291	2.0	46410.366	1.0
790.6052	28.00	-2.18	45122.460	1.0	57767.520	1.0
790.6120	22.00	-.48	26657.409	4.0	39302.360	4.0
790.6127	24.00	-3.72	35813.730	3.0	48458.670	2.0
790.6158	24.00	-1.29	35572.940	2.0	48217.630	2.0
790.6327	26.01	-4.86	49506.990	1.5	62151.610	2.5
790.6558	23.00	-4.80	20202.490	2.5	32846.740	2.5
790.6614	24.00	-4.02	42564.850	4.0	55209.010	4.0
790.6808	18.00	-3.10	111667.870	0.0	124311.720	1.0
790.6977	23.00	-4.28	19078.150	3.5	31721.730	4.5
790.7184	10.01	-1.75	279324.890	1.5	291966.140	.5
790.7221	26.01	-3.43	86929.920	3.5	99573.110	4.5
790.7302	24.00	-1.35	44746.260	6.0	57369.320	6.0
790.7559	8.01	-1.32	253048.350	2.5	265691.000	3.5
790.8000	92.00	-1.63	6936.547	0.0	19581.969	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
790.8016	15.00	-3.35	65787.380	3.5	78429.300	3.5
790.8060	64.01	-1.55	17583.339	0.0	30228.665	0.0
790.8122	20.02	-.62	370515.360	3.0	383157.110	3.0
790.8452	7.00	-2.68	97805.810	1.5	110447.032	1.5
790.8460	40.00	-2.61	4839.451	0.0	17484.138	0.0
790.8497	20.02	.83	370515.360	3.0	383156.510	4.0
790.8679	27.00	-2.02	32464.730	4.5	45105.590	3.5
790.8716	8.01	-3.35	245767.800	.5	258408.600	.5
790.9148	24.00	-3.52	48558.570	2.0	61198.680	3.0
790.9254	24.00	-4.51	42564.850	4.0	55204.790	3.0
790.9254	18.01	-2.09	183675.570	3.5	196315.510	2.5
790.9332	22.00	-.64	26772.965	5.0	39412.780	5.0
790.9598	26.00	-4.18	40421.890	4.0	53061.280	5.0
790.9730	14.01	-3.48	112394.820	1.5	125034.000	1.5
790.9830	14.01	-2.53	112394.980	2.5	125034.000	1.5
790.9874	29.01	-4.61	117747.450	3.0	130386.400	2.0
790.9880	23.00	-3.32	14548.830	2.5	27187.770	2.5
791.0080	64.00	-1.46	10485.478	0.0	23127.575	0.0
791.0243	10.01	-2.16	291801.880	1.5	304440.240	.5
791.0349	26.02	-4.58	69695.730	4.0	82333.920	3.0
791.0475	8.02	-1.12	366594.010	2.0	379232.000	1.0
791.0714	28.00	-1.74	44336.100	4.0	56973.707	5.0
791.0969	18.01	-3.19	192556.840	2.5	205194.040	1.5
791.1032	24.00	-2.22	35572.940	2.0	48210.040	1.0
791.1301	24.00	-1.91	44746.260	6.0	57382.930	5.0
791.1364	23.00	-4.01	26604.770	3.5	39241.340	2.5
791.1380	56.00	-2.00	0.000	0.0	12640.020	0.0
791.1520	14.01	-1.99	113760.410	3.5	126396.730	3.5
791.1520	14.01	-.44	113760.410	3.5	126396.730	4.5
791.1626	23.00	-7.00	13801.530	1.5	26437.680	1.5
791.1627	14.01	-.55	113760.580	2.5	126396.730	3.5
791.1714	25.00	-2.53	37737.220	3.5	50373.230	2.5
791.1839	25.00	-4.90	38669.600	3.5	51305.410	2.5
791.2234	26.00	-4.16	34636.820	2.0	47271.999	1.0
791.2388	14.00	-1.53	49188.617	2.0	61823.550	2.0
791.2691	27.00	-4.70	28470.510	1.5	41104.960	2.5
791.2747	25.02	-3.47	121117.140	3.5	133751.500	3.5
791.2867	26.00	-4.84	6928.266	5.0	19562.435	4.0
791.2879	27.00	-2.20	43911.360	1.5	56545.510	2.5
791.2940	75.00	-1.66	16212.162	0.0	28849.690	0.0
791.2995	22.00	-1.93	26892.926	3.0	39526.890	2.0
791.3092	23.00	-2.46	24789.360	.5	37423.170	1.5
791.3242	26.02	-4.97	193599.740	1.0	206233.310	2.0
791.3427	14.00	-1.83	47284.061	1.0	59917.336	2.0
791.3837	26.00	-4.60	20874.482	3.0	33507.102	3.0
791.4094	26.01	-4.88	72238.630	2.5	84870.840	2.5
791.4182	22.00	-4.96	15108.121	3.0	27740.190	2.0
791.4395	22.00	-.89	35577.140	2.0	48208.870	3.0
791.4671	27.00	-4.38	28470.510	1.5	41101.800	.5
791.4960	62.01	-1.62	11695.340	0.0	24329.643	0.0
791.5082	17.00	-2.10	83364.927	.5	95995.561	.5
791.5191	20.02	-2.65	347758.220	2.0	360388.680	3.0
791.5241	14.01	-2.84	112394.820	1.5	125025.200	.5
791.5420	7.00	-.13	99663.912	1.5	112294.007	.5
791.5479	13.01	-3.45	125866.700	1.0	138496.700	1.0
791.5705	27.00	-1.84	41528.530	5.5	54158.170	4.5
791.5800	46.00	.49	39683.500	0.0	52316.462	0.0
791.5811	18.01	-.68	183675.570	3.5	196305.040	3.5
791.6118	28.01	-3.74	99154.810	4.5	111783.790	3.5
791.6239	28.00	-2.33	44475.158	2.0	57103.946	3.0
791.6441	18.00	-2.21	107131.755	1.0	119760.220	1.0
791.6858	24.00	-3.28	50018.800	1.0	62646.600	2.0
791.7102	9.02	-4.06	427731.850	2.5	440359.260	3.5
791.7128	24.00	-3.47	36034.220	3.0	48661.590	3.0
791.7146	23.00	-6.74	10892.500	3.5	23519.840	4.5
791.7159	26.02	-4.38	193605.990	2.0	206233.310	2.0
791.7430	28.00	-.58	30163.140	2.0	42790.027	2.0
791.7498	23.00	-6.62	13810.900	.5	26437.680	1.5
791.7620	42.01	-1.20	27181.584	0.0	39811.642	0.0
791.7667	25.00	-2.84	49888.080	3.5	62514.590	2.5
791.7861	15.00	-1.49	65585.000	2.5	78211.200	2.5
791.7905	27.00	-4.26	36092.440	2.5	48718.570	2.5
791.8369	28.01	-2.02	105668.780	2.5	118294.170	3.5
791.8384	14.00	-.65	48020.074	1.0	60645.441	2.0
791.8418	7.00	-2.29	97770.150	.5	110395.463	1.5
791.8800	92.00	-1.81	4194.191	0.0	16822.367	0.0
791.8821	27.00	-2.77	40345.950	2.5	52970.620	2.5
791.8827	9.01	-2.67	277517.800	3.0	290142.460	2.0
791.9028	20.02	-.64	346896.260	2.0	359520.600	2.0
791.9216	20.02	-1.54	370533.070	4.0	383157.110	3.0
791.9322	14.00	-2.50	50189.389	2.0	62813.260	1.0
791.9479	27.00	-2.12	43921.890	2.5	56545.510	2.5
791.9579	20.02	.74	373626.850	2.0	386250.310	3.0
791.9592	20.02	.01	370533.070	4.0	383156.510	4.0
792.0075	28.00	-2.69	42954.234	2.0	55576.905	3.0
792.0195	28.01	-.08	108763.320	.5	121385.800	1.5
792.0251	26.02	-4.18	193610.920	3.0	206233.310	2.0
792.0439	23.00	-1.92	24992.880	3.5	37614.970	3.5
792.0445	9.01	-2.15	277520.380	1.0	290142.460	2.0
792.0458	25.00	-2.82	37737.220	3.5	50359.280	3.5
792.0502	22.00	-1.07	36414.470	3.0	49036.460	4.0
792.0559	26.02	-1.08	207118.100	6.0	219740.000	5.0
792.0559	26.02	.18	207118.100	6.0	219740.000	6.0
792.0559	26.02	1.15	207118.100	6.0	219740.000	7.0
792.0710	72.00	-2.05	5484.711	0.0	18109.842	0.0
792.0872	26.02	.38	207118.600	5.0	219740.000	5.0
792.0872	26.02	1.03	207118.600	5.0	219740.000	6.0
792.0872	26.02	-.70	207118.600	5.0	219740.000	4.0
792.0904	23.00	-4.69	26505.880	2.5	39127.230	1.5
792.0923	18.00	-3.85	111818.090	1.0	124439.410	0.0
792.1186	26.02	.90	207119.100	4.0	219740.000	5.0
792.1186	26.02	-.52	207119.100	4.0	219740.000	3.0
792.1186	26.02	.44	207119.100	4.0	219740.000	4.0
792.1324	9.01	-4.25	277521.780	2.0	290142.460	2.0
792.1500	26.02	.41	207119.600	3.0	219740.000	3.0
792.1500	26.02	.74	207119.600	3.0	219740.000	4.0
792.1500	26.02	-.47	207119.600	3.0	219740.000	2.0
792.1575	13.02	-1.30	201375.200	2.5	213995.480	2.5
792.1575	13.02	-0.00	201375.200	2.5	213995.480	3.5
792.1601	25.00	-4.59	50012.530	2.5	62632.770	3.5
792.1626	17.01	-3.46	128729.800	3.0	141350.000	3.0
792.1789	10.01	-4.93	305582.270	.5	318202.210	1.5
792.1802	13.02	-.16	201375.560	1.5	213995.480	2.5
792.1814	26.02	.57	207120.100	2.0	219740.000	3.0
792.1814	26.02	-.60	207120.100	2.0	219740.000	1.0
792.1814	26.02	.32	207120.100	2.0	219740.000	2.0
792.1902	24.00	-3.69	42589.250	5.0	55209.010	4.0
792.2039	28.00	-4.20	43654.974	3.0	56274.516	2.0
792.2492	26.01	-3.50	72429.740	.5	85048.560	1.5
792.2524	8.01	-1.41	253046.230	1.5	265665.000	2.5
792.3150	42.00	-1.77	20164.380	0.0	32785.623	0.0
792.3199	22.00	-4.76	24921.110	1.0	37538.604	2.0
792.3471	28.01	-4.91	122847.600	3.5	135464.860	3.5
792.3669	16.00	-2.43	67876.685	4.0	80493.630	3.0
792.3669	16.00	-1.25	67876.685	4.0	80493.630	4.0
792.3669	16.00	-.39	67876.685	4.0	80493.630	5.0
792.3854	8.01	-2.32	253048.350	2.5	265665.000	2.5
792.3861	22.00	-2.36	36298.430	1.0	48915.070	2.0
792.4024	24.00	-1.27	35398.020	4.0	48014.400	4.0
792.4108	26.00	-2.82	38678.015	2.0	51294.262	3.0
792.4200	40.00	-.92	22019.503	0.0	34639.073	0.0
792.4307	26.02	-2.50	186712.020	1.0	199327.950	1.0
792.4430	44.00	.19	30085.255	0.0	42704.459	0.0
792.4486	7.00	-3.35	97770.150	.5	110385.795	.5
792.4528	20.00	-2.18	35818.713	3.0	48434.290	2.0
792.4528	20.00	-2.87	35818.713	3.0	48434.290	3.0
792.4645	17.00	-1.48	72827.038	.5	85442.430	1.5
792.4660	28.00	-3.40	44206.185	3.0	56821.553	3.0
792.4685	22.00	-1.83	27025.652	4.0	39640.980	3.0
792.5291	14.00	-4.37	50054.800	4.0	62669.164	3.0
792.5563	19.00	-3.25	21534.700	2.5	34146.630	1.5
792.5752	28.01	-4.76	122821.630	5.5	135435.260	4.5
792.5852	14.00	-1.69	50189.389	2.0	62802.860	3.0
792.5915	10.01	-4.96	305566.940	1.5	318180.310	2.5
792.6133	14.00	-4.80	50054.800	4.0	62667.823	3.0
792.6186	10.01	-.56	281720.280	1.5	294333.220	.5
792.6193	22.00	-.13	26494.322	2.0	39107.250	1.0
792.6399	28.02	-4.72	121802.800	3.0	134415.400	4.0
792.6518	27.00	-3.56	34133.590	3.5	46746.000	2.5
792.6556	24.00	-2.88	36212.150	4.0	48824.500	4.0
792.6957	17.00	-2.28	84648.100	2.5	97259.811	1.5
792.7008	19.00	-4.21	21537.000	1.5	34146.630	1.5
792.7115	26.01	-4.65	67273.860	1.5	79885.320	2.5
792.7128	28.01	-2.32	121456.320	1.5	134067.760	1.5
792.7272	9.02	-.83	458392.610	1.5	471003.820	1.5
792.7310	19.00	-3.51	21537.000	1.5	34148.150	.5
792.7335	18.01	-4.17	191974.530	1.5	204585.640	2.5
792.7768	16.00	-1.28	67883.208	0.0	60493.630	1.0
792.8058	22.00	-2.45	36414.470	3.0	49024.430	3.0
792.8077	28.01	-4.88	121240.900	3.5	133850.830	3.5
792.8140	62.01	-.93	12905.203	0.0	25518.502	0.0
792.8197	24.00	-4.86	28679.430	1.0	41289.170	1.0
792.8455	25.00	-.96	44696.290	2.5	57305.620	3.5
792.8489	26.00	-4.09	47755.485	3.0	60364.760	3.0
792.8629	16.00	-1.28	67884.577	1.0	80493.630	1.0
792.8629	16.00	-.98	67884.577	1.0	80493.630	2.0
792.9325	28.00	-2.95	43654.974	3.0	56262.920	3.0
792.9385	24.00	-4.72	35618.510	1.0	48226.360	0.0
792.9467	28.01	-4.84	122175.420	2.5	134783.140	2.5
792.9543	15.01	-1.55	118342.600	1.0	130950.200	2.0
792.9643	9.00	-2.18	115917.909	2.5	128525.350	2.5
792.9926	24.00	-4.88	28682.180	2.0	41289.170	1.0
793.0057	16.00	-2.13	67886.847	2.0	80493.630	1.0
793.0057	16.00	-1.13	67886.847	2.0	80493.630	2.0
793.0057	16.00	-.75	67886.847	2.0	80493.630	3.0
793.0077	29.01	-3.63	135952.550	2.0	148559.300	2.0
793.0109	26.00	-3.06	45913.480	3.0	58520.180	4.0
793.0184	24.00	-4.60	37205.880	3.0	49812.460	3.0
793.0795	12.00	-2.51	47957.028	2.0	60562.637	2.0
793.0795	12.00	-1.43	47957.028	2.0	60562.637	3.0
793.0795	12.00	-4.13	47957.028	2.0	60562.637	3.0
793.0805	12.00	-3.89	47957.045	3.0	60562.637	2.0
793.0805	12.00	-2.56	47957.045	3.0	60562.637	3.0
793.0805	12.00	-2.75	47957.045	3.0	60562.637	3.0
793.0805	12.00	-1.28	47957.045	3.0	60562.637	4.0
793.0812	12.00	-1.61	47957.056	1.0	60562.637	2.0
793.0944	9.00	-.89	115917.909	2.5	128523.280	1.5
793.1172	26.02	-3.52	186998.600	4.0	199603.610	4.0
793.1310	28.01	-4.81	121325.090	2.5	133929.680	3.5
793.1405	26.01	-8.19	26055.400	2.5	38660.040	3.5
793.1447	16.00	-2.13	67889.058	3.0	80493.630	2.0
793.1447	16.00	-1.10	67889.058	3.0	60493.630	3.0
793.1447	16.00	-.55	67889.058	3.0	80493.630	4.0
793.1549	23.00	-2.20	24898.730	2.5	37503.140	2.5
793.1581	23.00	-3.71	24770.620	.5	37374.980	.5
793.1587	24.00	-1.14	50057.610	2.0	62661.960	3.0
793.1757	25.00	-4.08	37737.220	3.5	50341.300	4.5
793.1920	62.00	.02	17502.682	0.0	30109.970	0.0
793.2072	26.02	-1.09	189679.070	3.0	202282.650	2.0
793.2348	14.00	-.50	48102.323	2.0	60705.464	3.0
793.2720	17.00	-1.79	85442.430	1.5	98044.980	1.5
793.2953	23.00	-.10	24838.560	3.5	37440.740	4.5
793.3130	29.00	-.47	30569.200	0.0	43174.565	0.0
793.3444	29.01	-2.22	133826.200	2.0	146427.600	1.0
793.3822	10.01	-4.41	294086.490	1.5	306687.290	2.5
793.3894	17.00	-.22	83894.037	3.5	96494.722	4.5
793.4080	24.00	-3.18	48507.560	1.0	61107.950	2.0
793.4307	29.01	-2.92	138819.170	3.0	151419.200	3.0
793.4596	14.00	-4.64	49850.830	2.0	62450.400	1.0
793.4754	24.00	-1.13	35618.510	1.0	48217.830	2.0
793.5012	17.00	-.90	84132.262	2.5	96731.172	3.5
793.5032	20.00	-3.06	35835.413	2.0	48434.290	1.0
793.5032	20.00	-2.84	35835.413	2.0	48434.290	2.0
793.5032	20.00	-4.98	35835.413	2.0	48434.290	3.0
793.5299	17.00	-2.99	85244.330	.5	97842.783	1.5
793.5547	9.02	-3.31	444957.110	1.5	457555.170	1.5
793.5629	28.01	-3.62	122837.330	4.5	135435.260	4.5
793.5837	10.01	-4.73	305582.270	.5	318179.870	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
793.5880	22.00	-1.80	25227.217	3.0	37824.748	4.0
793.6272	23.00	-3.50	19189.280	1.5	31786.190	.5
793.6297	28.01	-4.06	122847.600	3.5	135444.470	3.5
793.6315	9.00	-.75	115917.909	2.5	128514.750	3.5
793.6385	28.01	-2.65	121456.320	1.5	134053.050	2.5
793.6404	26.02	-3.84	186998.600	4.0	199595.300	3.0
793.6681	27.00	-1.34	41918.410	3.5	54514.670	3.5
793.6864	28.01	-3.33	121699.020	1.5	134294.990	2.5
793.6952	23.00	-6.23	13801.530	1.5	26397.360	.5
793.7053	25.00	-4.42	38934.940	2.5	51530.610	3.5
793.7090	62.01	-1.62	12663.231	0.0	25262.307	0.0
793.7131	7.00	-1.67	97805.810	1.5	110401.356	2.5
793.7158	26.00	.17	34782.406	5.0	47377.909	4.0
793.7413	13.01	-2.09	133679.300	3.0	146274.400	2.0
793.7415	28.00	-3.16	46522.965	2.0	59118.060	2.0
793.7885	10.01	-4.84	305566.940	1.5	318161.290	2.5
793.7954	23.00	-.42	24727.850	2.5	37322.090	3.5
793.8060	72.00	-1.47	15566.901	0.0	28164.437	0.0
793.8181	7.01	-1.84	190120.240	1.0	202714.120	1.0
793.8522	25.00	-2.63	37789.930	2.5	50383.270	1.5
793.8523	22.00	-2.89	15156.787	4.0	27750.124	5.0
793.8542	26.00	-3.76	45220.662	3.0	57813.970	3.0
793.8742	23.00	-2.47	24830.180	1.5	37423.170	1.5
793.8890	41.00	-1.92	11211.395	0.0	23807.614	0.0
793.8963	17.00	-.60	88272.720	.5	100865.360	1.5
793.9171	8.01	-3.34	245816.290	1.5	258408.600	.5
793.9519	8.00	-2.14	101135.407	3.0	113727.165	2.0
793.9612	27.00	-1.31	42269.320	4.5	54860.930	4.5
793.9663	24.00	-1.44	35618.510	1.0	48210.040	1.0
793.9770	10.01	-4.71	306243.420	2.5	318834.780	3.5
794.0022	25.00	-2.80	49888.080	3.5	62479.040	4.5
794.0186	29.01	-3.35	133984.600	3.0	146575.300	2.0
794.0196	12.00	-2.26	47844.414	1.0	60435.099	2.0
794.0218	8.01	-1.75	253048.350	2.5	265639.000	3.5
794.0470	40.00	-2.61	4113.534	0.0	16707.247	0.0
794.0483	18.01	-3.86	160239.350	1.5	172829.580	1.5
794.0847	7.00	-2.32	97805.810	1.5	110395.463	1.5
794.0866	17.00	-3.54	84648.100	2.5	97237.723	2.5
794.0930	74.00	-2.73	13711.778	0.0	26304.761	0.0
794.0943	29.01	-1.49	133826.200	2.0	146415.700	2.0
794.1115	26.00	-2.53	26406.490	1.0	38995.717	1.0
794.1132	28.01	-4.68	118442.810	1.5	131032.010	2.5
794.1183	10.01	-2.42	290371.950	2.5	302961.070	1.5
794.1265	24.00	-1.42	50057.610	2.0	62646.600	2.0
794.1284	15.00	-4.67	66813.040	1.5	79402.000	2.5
794.1418	22.00	-3.90	33655.853	2.0	46244.600	2.0
794.1759	26.00	-2.31	47960.973	4.0	60549.180	5.0
794.1807	26.02	-2.58	186712.020	1.0	199300.150	2.0
794.1842	26.00	-3.96	24574.655	4.0	37162.729	3.0
794.1902	23.00	-3.69	24915.160	1.5	37503.140	2.5
794.1965	25.01	-4.84	55696.500	4.0	68284.380	3.0
794.2053	24.00	-.49	35398.020	4.0	47985.760	5.0
794.2104	28.01	-4.76	122847.600	3.5	135435.260	4.5
794.2861	23.00	-6.98	13810.900	.5	26397.360	.5
794.2949	24.00	-3.16	42218.370	0.0	54804.690	1.0
794.3147	8.00	-.60	101135.407	3.0	113721.413	3.0
794.3224	14.00	-3.74	49933.775	3.0	62519.660	2.0
794.3391	23.00	-2.56	24789.360	.5	37374.980	.5
794.3530	18.01	-3.25	188766.150	2.5	201351.550	2.5
794.3587	28.01	-4.22	120144.170	2.5	132729.480	2.5
794.3739	22.00	-2.45	28896.062	5.0	41481.130	5.0
794.3861	22.00	.01	26564.385	3.0	39149.260	2.0
794.3881	55.00	-1.16	11732.308	0.0	24320.613	0.0
794.3890	15.00	-2.30	68088.270	1.5	80673.100	.5
794.4001	14.00	-.40	48264.292	3.0	60848.946	4.0
794.4016	29.01	-3.80	138819.170	3.0	151403.800	2.0
794.4426	29.01	.11	108335.430	2.0	120919.410	1.0
794.4454	12.00	-2.74	47851.162	2.0	60435.099	2.0
794.4458	22.00	-3.67	33660.671	1.0	46244.600	2.0
794.4603	13.01	-.96	133914.100	2.0	146497.800	3.0
794.4610	40.00	-1.56	5162.081	0.0	17749.231	0.0
794.4856	25.00	-3.04	37789.930	2.5	50373.230	2.5
794.4900	29.01	-4.88	138819.170	3.0	151402.400	3.0
794.4906	10.01	-1.53	279218.660	2.5	291801.680	1.5
794.4994	28.01	-4.30	107082.210	2.5	119665.290	2.5
794.5248	15.00	-2.50	67113.820	2.5	79696.500	1.5
794.5764	26.00	-3.99	37046.000	4.0	49627.861	4.0
794.5813	26.00	.17	35379.189	5.0	47960.973	4.0
794.5990	26.00	-4.84	19552.474	1.0	32133.977	2.0
794.6024	29.01	-4.93	135934.150	5.0	148515.600	4.0
794.6504	25.00	-3.43	38934.940	2.5	51515.630	2.5
794.6631	22.00	-2.91	28788.372	4.0	41368.860	4.0
794.6949	7.00	-3.68	97805.810	1.5	110385.795	.5
794.7026	7.00	-3.23	97770.150	.5	110350.014	.5
794.7097	12.00	-3.09	47841.119	0.0	60420.870	1.0
794.7154	22.00	-1.13	35527.760	1.0	48107.420	2.0
794.7168	8.00	-.60	101147.526	2.0	113727.165	2.0
794.7357	23.00	-.83	24648.100	1.5	37227.440	2.5
794.7527	18.01	-.57	188766.150	2.5	201345.220	1.5
794.7548	8.00	.47	101135.407	3.0	113714.444	4.0
794.7603	37.00	-.17	0.000	0.0	12582.410	0.0
794.7944	18.00	-2.75	113716.610	3.0	126295.020	3.0
794.8020	18.00	-2.86	113716.610	3.0	126294.900	3.0
794.8020	18.00	-1.44	113716.610	3.0	126294.900	4.0
794.8120	62.01	-1.68	12905.203	0.0	25486.795	0.0
794.8150	44.00	-.03	32182.351	0.0	44763.895	0.0
794.8173	18.00	-.23	94553.707	0.0	107131.755	1.0
794.8216	15.00	-3.01	66544.120	2.5	79122.100	1.5
794.8260	28.01	-2.88	121325.090	2.5	133903.000	1.5
794.8374	24.00	-3.07	48488.230	0.0	61065.960	1.0
794.8515	9.00	-2.30	104731.050	1.5	117308.558	1.5
794.8741	18.02	-2.43	196589.200	1.0	209166.350	0.0
794.9088	23.00	-4.47	19145.130	5.5	31721.730	4.5
794.9101	29.01	-2.60	134359.900	1.0	146936.480	2.0
794.9145	24.00	-3.19	35398.020	4.0	47974.530	3.0
794.9151	22.00	-1.16	12118.394	4.0	24694.895	4.0
794.9179	12.00	-2.62	47844.414	1.0	60420.870	1.0
794.9467	17.01	-4.35	131768.000	2.0	144344.000	2.0
794.9973	29.01	-.84	133984.600	3.0	146559.800	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
795.0190	73.00	-2.13	13227.833	0.0	25806.149	0.0
795.0479	22.00	-2.10	36340.670	2.0	48915.070	2.0
795.0548	16.01	-2.66	140708.510	2.5	153282.800	2.5
795.0706	28.01	-4.42	107082.210	2.5	119656.250	3.5
795.0803	8.00	.31	101147.526	2.0	113721.413	3.0
795.1997	29.01	-4.00	133984.600	3.0	146556.600	3.0
795.2160	8.00	.14	101155.422	1.0	113727.165	2.0
795.2199	22.00	-3.23	34078.580	3.0	46650.260	3.0
795.2326	28.01	.10	104503.220	2.5	117074.700	3.5
795.2364	28.01	-.27	121042.570	1.5	133613.990	1.5
795.2439	22.00	-1.45	35757.510	4.0	48328.810	4.0
795.2520	17.00	-2.02	84688.637	.5	97259.811	1.5
795.2606	9.00	-2.90	116040.883	1.5	128611.920	1.5
795.2825	25.02	-2.13	218816.970	2.5	231387.660	3.5
795.3020	28.00	-2.62	36600.805	2.0	49171.187	1.0
795.3446	12.00	-2.40	47851.162	2.0	60420.870	1.0
795.3673	24.00	-1.43	35640.690	0.0	48210.040	1.0
795.3673	25.00	-4.13	37789.930	2.5	50359.280	3.5
795.3736	29.01	-4.28	135952.550	2.0	148521.800	1.0
795.3863	28.01	-3.20	121385.800	1.5	133954.850	.5
795.3869	26.02	-4.70	193611.370	4.0	206180.410	3.0
795.3920	24.00	-1.10	50102.040	3.0	62671.000	4.0
795.3939	15.00	-2.19	65373.470	.5	77942.400	1.5
795.4071	9.00	-1.06	116143.579	.5	128712.300	1.5
795.4148	28.01	-2.82	100609.010	2.5	113177.610	3.5
795.4471	24.01	-3.38	54444.190	3.5	67012.280	2.5
795.4760	41.00	-2.63	9356.272	0.0	21927.362	0.0
795.4844	15.00	-4.18	66834.500	1.5	79402.000	2.5
795.4943	26.00	-3.31	24118.815	4.0	36686.159	4.0
795.5074	14.00	-2.23	49028.294	0.0	61595.430	1.0
795.5369	28.01	-4.74	103025.580	2.5	115592.250	1.5
795.5376	19.00	-2.73	21534.700	2.5	34101.360	2.5
795.5376	19.00	-1.43	21534.700	2.5	34101.360	3.5
795.5719	26.00	-2.15	40594.413	4.0	53160.530	3.0
795.6296	9.00	-.63	116040.883	1.5	128606.090	2.5
795.6660	40.00	-1.86	5162.081	0.0	17730.169	0.0
795.6762	22.00	-3.92	33680.130	3.0	46244.600	2.0
795.6832	19.00	-1.59	21537.000	1.5	34101.360	2.5
795.6970	18.00	-3.64	106087.305	1.0	118651.447	1.0
795.7060	74.00	-2.49	19115.832	0.0	31683.288	0.0
795.7092	23.01	-4.67	26839.820	3.0	39403.770	4.0
795.7465	27.00	-3.02	41225.760	4.5	53789.120	3.5
795.7478	28.01	-4.73	122837.330	4.5	135400.670	3.5
795.7484	28.01	-.01	121050.660	2.5	133613.990	1.5
795.7535	28.01	.12	118379.110	2.5	130942.360	1.5
795.7681	27.00	-.60	41225.760	4.5	53788.780	4.5
795.7744	18.00	-3.33	111818.090	1.0	124381.010	2.0
795.7934	18.02	-4.50	196589.200	1.0	209151.820	2.0
795.8117	22.00	-4.18	17423.853	2.0	29986.185	3.0
795.8308	20.02	-3.30	370533.070	4.0	383095.100	5.0
795.8732	27.00	-7.43	14036.280	1.5	26597.640	1.5
795.8910	22.00	-2.65	36298.430	1.0	48859.510	1.0
795.8992	24.00	-2.41	35884.400	5.0	48445.350	6.0
795.9062	23.00	-6.99	14910.040	3.5	27470.880	3.5
795.9119	24.00	-1.37	42648.260	3.0	55209.010	4.0
795.9140	26.00	-2.15	40594.413	4.0	53155.130	4.0
795.9220	14.00	-1.45	49399.670	1.0	61960.260	0.0
795.9227	25.00	-3.25	50012.530	2.5	62573.110	1.5
795.9380	28.00	-2.61	44206.185	3.0	56766.523	4.0
795.9480	26.00	-3.96	34636.820	2.0	47197.000	2.0
795.9645	24.00	-1.85	50102.040	3.0	62661.960	3.0
795.9960	92.00	-1.59	7259.177	0.0	19822.054	0.0
795.9980	40.00	-1.91	4839.451	0.0	17402.297	0.0
796.0209	18.01	-3.98	190592.170	1.5	203151.200	2.5
796.0443	27.00	-.85	41918.410	3.5	54477.070	3.5
796.0607	26.00	-4.25	37046.000	4.0	49604.402	5.0
796.0608	24.00	-2.71	48507.560	1.0	61065.960	1.0
796.0627	28.01	-4.98	121294.670	4.5	133853.040	4.5
796.0678	18.00	-4.23	111818.090	1.0	124376.380	1.0
796.0700	28.00	-2.08	36600.805	2.0	49159.060	2.0
796.0821	18.00	-4.64	107289.747	2.0	119847.810	1.0
796.1080	46.00	-1.11	28068.817	0.0	40629.927	0.0
796.1466	22.00	-4.57	25102.880	2.0	37659.927	3.0
796.1514	22.00	.16	26657.409	4.0	39214.380	3.0
796.1616	25.02	-2.60	219195.950	4.5	231752.760	5.5
796.1794	24.00	-2.37	42648.260	3.0	55204.790	3.0
796.2028	28.01	-4.40	121294.670	4.5	133850.830	3.5
796.2181	22.00	-1.26	35652.950	3.0	48208.870	3.0
796.2339	28.01	-3.01	121699.020	1.5	134254.690	1.5
796.2391	22.00	-4.35	28638.832	2.0	41194.420	3.0
796.2447	28.01	.56	106007.890	2.5	118563.390	3.5
796.2479	22.00	-1.44	35503.400	0.0	48058.850	1.0
796.2517	27.00	-4.38	42434.230	2.5	54989.620	3.5
796.2790	8.02	.11	366801.040	3.0	379356.000	3.0
796.2915	26.00	-3.73	32873.623	4.0	45426.385	4.0
796.3113	25.02	-2.32	121197.050	2.5	133751.500	3.5
796.3119	28.01	-4.80	121180.540	4.5	133734.980	3.5
796.3309	24.00	-3.74	33060.740	3.0	45614.880	4.0
796.3620	22.01	-4.38	52631.070	3.5	65184.720	3.5
796.3630	40.00	-1.36	14276.381	0.0	26833.469	0.0
796.3988	28.01	-4.20	122847.600	3.5	135400.670	3.5
796.4304	7.00	-1.72	97770.150	.5	110322.721	1.5
796.4344	22.00	-1.81	25107.417	2.0	37659.927	3.0
796.4445	18.02	-2.71	213950.870	2.0	226503.220	3.0
796.4516	26.00	-4.55	33412.706	3.0	45964.944	2.0
796.4641	14.02	-.20	214532.170	1.0	227064.210	2.0
796.4826	18.01	-3.01	199525.150	1.5	212076.900	2.5
796.4830	57.00	-1.80	2581.041	0.0	15136.237	0.0
796.4839	22.00	-5.07	14105.680	3.0	26657.409	4.0
796.4931	26.00	-2.31	40842.130	3.0	53393.715	4.0
796.5010	28.01	-2.16	123434.600	4.5	135986.060	3.5
796.5074	18.00	-2.89	107131.755	1.0	119683.113	2.0
796.5264	23.00	-6.33	13801.530	1.5	26352.590	2.5
796.5492	28.01	-4.73	121699.020	1.5	134249.720	1.5
796.5498	26.00	-3.07	41018.029	2.0	53568.720	2.0
796.5670	28.01	-3.11	79823.030	3.5	92373.450	2.5
796.5930	24.00	-3.82	33113.270	4.0	45663.280	5.0
796.6019	26.02	-1.82	189784.520	2.0	202334.390	1.0
796.6070	27.00	-1.87	34196.210	1.5	46746.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
796.6330	24.00	-2.58	48558.570	2.0	61107.950	2.0
796.6430	28.00	-2.31	45418.858	2.0	57968.080	3.0
796.6438	26.01	-4.68	54063.530	.5	66612.740	1.5
796.6546	9.02	-3.53	445006.130	2.5	457555.170	1.5
796.6559	14.02	-.66	214532.170	1.0	227081.190	1.0
796.6660	64.00	-2.16	6936.547	0.0	19488.859	0.0
796.6755	26.00	-2.43	47377.909	4.0	59926.620	5.0
796.6940	20.02	-.10	370515.360	3.0	383063.780	3.0
796.7206	24.00	-4.77	42438.820	2.0	54986.620	3.0
796.7213	16.01	-.74	112937.330	.5	125485.320	.5
796.7822	26.01	-3.82	50142.930	2.5	62689.960	2.5
796.7840	44.00	-.06	30165.913	0.0	42716.366	0.0
796.8140	25.00	-4.47	50359.280	3.5	62905.810	2.5
796.8495	20.02	-1.40	370515.360	3.0	383061.330	2.0
796.8616	27.00	-3.12	41968.890	2.5	54514.670	3.5
796.8850	42.00	-.99	27262.242	0.0	39811.104	0.0
796.8860	26.00	-3.77	45726.104	5.0	58271.500	5.0
796.8952	10.01	-1.75	279422.890	.5	291968.140	.5
796.9238	23.00	-2.47	24830.180	1.5	37374.980	.5
796.9391	24.00	-1.99	50102.040	3.0	62646.600	2.0
796.9550	25.02	-2.91	218816.970	2.5	231361.280	2.5
796.9617	7.00	-3.55	97805.810	1.5	110350.014	.5
796.9664	14.02	-1.94	244871.470	1.0	257415.600	1.0
796.9664	14.02	-1.46	244871.470	1.0	257415.600	2.0
797.0026	6.00	-2.54	73975.910	0.0	86519.470	1.0
797.0307	14.00	-1.33	48102.323	2.0	60645.441	2.0
797.0412	28.00	-.94	44314.980	4.0	56857.933	4.0
797.0460	92.00	-1.04	8065.752	0.0	20612.079	0.0
797.0566	28.01	-.45	123434.600	4.5	135977.310	4.5
797.0725	26.02	-3.14	186597.300	6.0	199139.760	5.0
797.0808	10.01	-4.71	306262.770	1.5	318805.100	2.5
797.1241	17.00	-2.60	84988.480	1.5	97530.130	2.5
797.1380	26.01	-4.73	65696.110	4.5	78237.540	3.5
797.1615	24.00	-3.74	50105.540	1.0	62646.600	2.0
797.1625	26.00	-3.17	38678.015	2.0	51219.059	3.0
797.1850	28.01	.34	120903.200	3.5	133443.890	2.5
797.1863	16.01	-4.68	143488.610	.5	156029.280	1.5
797.1990	18.01	-4.95	191974.530	1.5	204515.000	.5
797.2022	29.01	.08	108335.430	2.0	120875.650	2.0
797.2035	28.01	-4.31	103025.580	2.5	115565.980	2.5
797.2041	26.00	-4.42	34636.820	2.0	47177.210	1.0
797.2340	58.01	-3.23	967.890	0.0	13511.259	0.0
797.2677	23.00	-4.65	20767.570	3.5	33306.960	4.5
797.3023	28.00	-2.64	44565.100	3.0	57103.946	3.0
797.3154	18.00	-3.88	111818.090	1.0	124356.730	2.0
797.3306	25.00	-1.46	49888.080	3.5	62426.480	3.5
797.3332	26.02	-2.47	189796.030	1.0	202334.390	1.0
797.3414	28.01	-2.76	122120.370	5.5	134658.600	4.5
797.3618	18.02	-2.41	196613.910	2.0	209151.820	2.0
797.3662	18.02	-2.32	196589.200	1.0	209127.040	1.0
797.3762	22.00	-4.29	17369.590	1.0	29907.273	2.0
797.3942	20.00	-1.84	35896.889	4.0	48434.290	3.0
797.4120	28.01	.02	121325.090	2.5	133862.210	1.5
797.4139	24.00	-2.65	48661.590	3.0	61198.680	3.0
797.4540	14.00	-1.07	49399.670	1.0	61936.130	1.0
797.4705	29.01	-4.05	138883.000	4.0	151419.200	3.0
797.4721	17.00	-.76	84648.100	2.5	97184.277	3.5
797.4725	26.02	-3.03	186791.780	2.0	199327.950	1.0
797.4887	22.00	-5.45	14028.470	2.0	26564.385	3.0
797.4947	24.00	-2.51	42438.820	2.0	54974.640	2.0
797.5090	92.00	-1.60	5887.999	0.0	18427.042	0.0
797.5373	28.01	.57	108368.050	2.5	120903.200	3.5
797.5520	28.01	-.04	104298.230	4.5	116833.150	4.5
797.5577	14.00	-2.18	49060.601	1.0	61595.430	1.0
797.6067	26.01	-4.15	72650.630	4.5	85184.690	4.5
797.6627	25.00	-4.56	44978.980	1.5	57512.160	1.5
797.6640	22.00	-4.62	35652.950	3.0	48186.110	4.0
797.6869	16.01	-2.07	140750.000	1.5	153282.600	2.5
797.6882	26.01	-4.28	72651.910	3.5	85184.690	4.5
797.6972	17.00	-2.06	83364.927	.5	95897.565	1.5
797.7003	18.01	-4.26	189934.550	.5	202467.140	1.5
797.7047	27.00	-4.61	42988.120	3.5	55520.640	3.5
797.7280	26.00	-3.21	45281.816	2.0	57813.970	3.0
797.7315	28.02	-4.67	121802.800	3.0	134334.900	3.0
797.7957	22.00	-1.45	35527.760	1.0	48058.650	1.0
797.8150	64.00	-1.96	6936.547	0.0	19470.781	0.0
797.8200	20.02	-1.52	370533.070	4.0	383063.780	3.0
797.8327	28.01	-1.30	109269.830	1.5	121800.340	1.5
797.8473	22.00	-1.29	35577.140	2.0	48107.420	2.0
797.8781	20.00	-4.39	35730.454	2.0	48260.250	3.0
797.8821	22.00	-1.48	15220.390	5.0	27750.124	5.0
797.8970	90.00	-2.01	3629.588	0.0	16162.534	0.0
797.9002	29.01	-4.20	135952.550	2.0	148482.000	3.0
797.9037	22.00	.30	26772.965	5.0	39302.360	4.0
797.9071	28.00	-1.13	45281.152	3.0	57810.494	4.0
797.9584	28.00	-2.07	43654.974	3.0	56183.510	4.0
797.9590	20.00	-2.74	35730.454	2.0	48258.980	2.0
797.9983	29.01	-4.59	117231.690	1.0	129759.600	1.0
798.0019	26.00	-4.79	41018.029	2.0	53545.682	3.0
798.0023	20.00	-2.12	35730.454	2.0	48258.300	1.0
798.0034	22.00	-3.39	31373.801	3.0	43901.630	4.0
798.0180	25.02	-3.71	124754.800	3.5	137282.400	2.5
798.0435	27.00	-3.62	41918.410	3.5	54445.610	2.5
798.0473	29.01	-3.34	116326.160	3.0	128853.300	2.0
798.0597	17.00	-1.59	71958.363	2.5	84485.309	1.5
798.0770	75.00	-1.97	16212.162	0.0	28742.281	0.0
798.0938	29.01	-3.36	134359.900	1.0	146886.310	1.0
798.0970	15.00	-4.32	66813.040	1.5	79339.400	1.5
798.1200	76.00	-1.28	24116.599	0.0	36646.043	0.0
798.1461	24.00	-1.86	42292.960	1.0	54818.550	2.0
798.1531	28.01	-1.48	123434.600	4.5	135960.080	4.5
798.1735	16.01	-2.96	143623.030	1.5	156148.190	.5
798.1919	23.00	-2.72	21603.170	4.5	34128.040	3.5
798.1919	23.00	-4.64	31541.180	3.5	44066.050	3.5
798.1950	8.00	-3.21	88630.599	1.0	101155.422	1.0
798.1964	6.00	-3.31	71352.510	0.0	83877.310	1.0
798.2090	60.01	-1.94	8630.355	0.0	21158.402	0.0
798.2193	23.00	-2.26	24898.730	2.5	37423.170	1.5
798.2251	24.00	-4.88	36034.220	3.0	48558.570	2.0
798.2306	8.00	-4.19	88631.158	2.0	101155.422	1.0
798.2406	8.00	-3.05	88631.315	0.0	101155.422	1.0
798.2691	29.01	-4.93	136035.640	3.0	148559.300	2.0
798.2898	26.00	-4.05	38175.332	3.0	50698.666	2.0
798.3060	28.01	-4.55	107142.210	1.5	119665.290	2.5
798.3602	18.01	-2.09	192556.840	2.5	205079.070	2.5
798.3679	24.00	-4.04	38537.680	5.0	51059.790	4.0
798.3823	14.00	-3.04	45276.188	1.0	57798.072	2.0
798.3855	28.00	-1.38	44336.100	4.0	56857.933	4.0
798.4017	23.00	-4.70	14949.300	4.5	27470.880	3.5
798.4042	28.01	-.48	118379.110	2.5	130900.650	2.5
798.4100	23.00	-4.40	21646.390	3.5	34167.840	2.5
798.4125	28.01	.08	123434.600	4.5	135956.010	5.5
798.4170	9.01	-3.85	277188.860	1.0	289710.200	2.0
798.4350	42.01	-1.39	26455.667	0.0	38980.168	0.0
798.4946	22.00	-4.23	17540.205	3.0	30060.328	4.0
798.5318	18.00	-3.29	112138.980	2.0	124658.520	2.0
798.5343	28.01	-4.84	119315.440	2.5	131834.940	2.5
798.5407	29.01	-3.86	138883.000	4.0	151402.400	3.0
798.5764	22.00	-3.11	36340.670	2.0	48859.510	1.0
798.5808	17.00	-1.79	84485.309	1.5	97004.081	1.5
798.5873	26.01	-4.00	72352.170	3.5	84870.840	2.5
798.5905	10.01	-.57	290371.950	2.5	302890.570	2.5
798.6064	18.01	-3.11	202149.110	2.5	214667.480	2.5
798.6204	18.01	-2.09	183797.360	2.5	196315.510	2.5
798.6472	28.00	-3.51	43654.974	3.0	56172.704	3.0
798.6485	23.00	-4.55	19023.470	4.5	31541.180	3.5
798.6600	42.00	-.93	25729.749	0.0	38250.722	0.0
798.6810	28.01	-3.26	121385.800	1.5	133903.000	1.5
798.6938	17.01	-3.90	140740.000	1.0	153257.000	2.0
798.6984	8.00	-2.71	88630.599	1.0	101147.526	2.0
798.6995	7.00	-3.47	97805.810	1.5	110322.721	1.5
798.7341	8.00	-3.16	88631.158	2.0	101147.526	2.0
798.7346	26.00	-4.51	42859.756	2.0	55376.117	1.0
798.7346	27.00	-2.12	16778.160	2.5	29294.520	3.5
798.7742	27.00	-4.51	42434.230	2.5	54949.970	1.5
798.7895	27.00	-2.71	40827.770	1.5	53343.270	1.5
798.7895	6.00	-3.05	73975.910	0.0	86491.410	1.0
798.8068	15.00	-2.53	65373.470	.5	77888.700	1.5
798.8157	29.01	-.11	121078.960	3.0	133594.050	3.0
798.8317	23.00	-4.25	19026.340	2.5	31541.160	3.5
798.8572	21.00	-3.81	20237.100	4.5	32751.540	3.5
798.9402	24.00	-.70	35501.260	3.0	48014.400	4.0
798.9409	18.02	-2.05	196613.910	2.0	209127.040	1.0
798.9434	28.01	-4.85	122270.050	3.5	134783.140	2.5
798.9581	27.00	-2.88	39649.160	3.5	52162.020	3.5
798.9765	22.00	-6.41	13981.750	1.0	26494.322	2.0
798.9867	6.00	-3.30	71364.900	1.0	83877.310	1.0
799.0085	18.00	-4.33	112138.980	2.0	124651.050	1.0
799.0302	24.00	-3.27	42292.960	1.0	54804.690	1.0
799.0385	29.01	-.96	133984.600	3.0	146496.200	3.0
799.0558	24.00	-1.19	35934.020	6.0	48445.350	6.0
799.0647	23.01	-4.54	34228.790	3.0	46739.980	2.0
799.0941	27.00	-2.68	40345.950	2.5	52856.680	3.5
799.0947	26.02	-3.42	188013.400	4.0	200524.120	5.0
799.1241	23.00	-.65	24648.100	1.5	37156.360	1.5
799.1241	23.00	-2.18	24992.880	3.5	37503.140	2.5
799.1300	92.00	-1.72	6210.629	0.0	18724.238	0.0
799.1407	25.02	-2.26	218977.340	3.5	231487.340	4.5
799.1535	28.01	-1.15	123434.600	4.5	135944.400	3.5
799.1867	28.01	-3.92	121699.020	1.5	134208.300	2.5
799.2392	28.00	-1.35	45281.152	3.0	57789.611	4.0
799.2449	26.02	-2.46	186791.780	2.0	199300.150	2.0
799.2570	27.00	-2.45	41968.890	2.5	54477.070	3.5
799.2621	25.00	-4.94	44978.980	1.5	57487.080	2.5
799.2679	23.00	-3.64	24915.160	1.5	37423.170	1.5
799.2890	18.01	-.76	183797.360	2.5	196305.040	3.5
799.2979	29.01	-4.97	136014.260	2.0	148521.800	1.0
799.3075	24.00	-2.80	48558.570	2.0	61065.960	1.0
799.3132	27.00	-2.37	39649.160	3.5	52156.460	4.5
799.3516	28.01	-3.53	121561.060	.5	134067.760	1.5
799.3535	20.02	.23	358940.910	0.0	371447.560	1.0
799.3597	28.00	-2.46	44314.980	4.0	56821.553	3.0
799.3614	22.00	-2.91	15108.121	3.0	27614.667	4.0
799.3820	64.00	-1.43	10806.108	0.0	23317.772	0.0
799.3906	22.01	-4.61	52471.480	2.5	64977.570	3.5
799.4366	29.01	-4.24	138898.430	1.0	151403.800	2.0
799.4660	26.00	-2.06	49327.560	3.0	61832.470	4.0
799.4666	15.00	-2.78	66834.500	1.5	79339.400	1.5
799.4730	72.00	-1.77	5565.369	0.0	18073.609	0.0
799.4792	28.00	-1.51	44206.185	3.0	56710.689	2.0
799.4801	26.01	-4.60	50157.610	4.5	62662.300	5.5
799.4884	18.00	-2.63	112138.980	2.0	124643.540	1.0
799.4897	23.00	-2.38	25253.530	5.5	37758.070	4.5
799.4958	14.00	-2.17	45293.629	2.0	57798.072	2.0
799.5083	8.00	-2.43	88631.158	2.0	101135.407	3.0
799.5312	22.00	-2.03	36298.430	1.0	48802.320	0.0
799.5581	23.00	-2.20	25111.500	4.5	37614.970	3.5
799.6473	22.00	.43	26910.705	6.0	39412.780	5.0
799.6483	25.00	-1.31	50012.530	2.5	62514.590	2.5
799.6489	28.01	-.05	108548.610	1.5	121050.660	2.5
799.6515	26.01	-3.76	50187.950	3.5	62689.960	2.5
799.6809	29.01	-.02	110365.980	2.0	122867.530	1.0
799.6828	27.00	-4.52	42811.440	3.5	55312.960	4.5
799.7110	18.01	-1.66	189654.780	2.5	202155.860	2.5
799.7305	26.00	-3.84	33412.706	3.0	45913.480	3.0
799.7416	22.00	-3.06	36414.470	3.0	48915.070	2.0
799.7742	16.01	-4.13	151959.410	1.5	164459.500	2.5
799.7856	17.00	-2.20	72488.568	1.5	84988.480	1.5
799.8063	23.00	-.51	24727.850	2.5	37227.440	2.5
799.8088	28.01	-.38	118442.610	1.5	130942.360	1.5
799.8159	27.00	-3.11	41225.760	4.5	53725.200	4.5
799.8197	18.01	-3.56	192556.840	2.5	205056.220	1.5
799.8395	22.00	-1.44	36340.670	2.0	48839.740	3.0
799.8498	18.01	-3.00	145668.800	1.5	158167.710	1.5
799.8562	28.01	-.06	106133.140	1.5	118631.950	.5
799.8600	92.00	-.72	13066.518	0.0	25568.706	0.0
799.8690	25.00	-4.01	45013.550	2.5	57512.160	1.5
799.8741	28.01	-2.69	121456.320	1.5	133954.850	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
799.8750	73.00	-2.35	17099.394	0.0	29601.347	0.0
799.8888	16.01	-3.91	143623.030	1.5	156121.330	2.5
799.8965	28.01	.21	91800.050	4.5	104298.230	4.5
799.8968	26.00	.08	35257.309	4.0	47755.485	3.0
799.8997	26.02	-2.30	189784.520	2.0	202282.650	2.0
799.9227	29.01	-4.53	135863.930	1.0	148361.700	1.0
799.9330	39.00	-1.44	17018.737	0.0	29519.784	0.0
799.9989	15.00	-1.27	65450.020	1.5	77946.600	2.5
800.0277	28.01	-4.32	96052.480	2.5	108548.610	1.5
800.1321	16.01	-1.48	118146.500	1.5	130641.000	1.5
800.1526	28.01	-3.87	122120.370	5.5	134614.550	5.5
800.1536	7.00	-3.00	97805.810	1.5	110299.974	2.5
800.1610	62.01	-2.04	9356.272	0.0	21853.757	0.0
800.1667	28.01	-.25	108548.610	1.5	121042.570	1.5
800.1878	18.00	-2.74	111818.090	1.0	124311.720	1.0
800.1890	57.00	-1.79	2984.326	0.0	15481.376	0.0
800.2282	22.00	-3.83	29818.310	3.0	42311.310	3.0
800.2597	26.00	-2.16	36940.600	2.0	49433.108	2.0
800.2679	15.00	-1.38	65450.020	1.5	77942.400	1.5
800.2890	25.00	-.26	44993.920	3.5	57485.970	2.5
800.2948	8.02	-1.18	366801.040	3.0	379293.000	2.0
800.2967	6.00	-3.51	71385.380	2.0	83877.310	1.0
800.3145	22.00	-3.50	28702.768	3.0	41194.420	3.0
800.3275	21.00	-2.22	24656.800	1.5	37148.250	1.5
800.3275	21.00	-2.96	24656.800	.5	37148.250	1.5
800.4460	26.02	.56	207252.500	1.0	219742.100	2.0
800.4652	29.01	-2.85	138883.000	4.0	151372.300	5.0
800.4665	9.02	-3.41	444957.110	1.5	457446.390	.5
800.4742	20.02	-2.36	328090.990	2.0	340580.150	3.0
800.4755	29.01	-4.57	116080.460	3.0	128569.600	2.0
800.5056	10.01	-.57	290583.170	1.5	303071.840	2.5
800.5223	22.00	-2.91	17423.853	2.0	29912.262	3.0
800.5270	40.00	-1.59	5000.766	0.0	17492.537	0.0
800.5556	16.01	-2.43	151959.410	1.5	164447.300	2.5
800.5755	24.00	-4.15	33934.880	3.0	46422.460	4.0
800.6127	28.01	-.97	122120.370	5.5	134607.370	4.5
800.6154	18.00	-.61	93750.639	1.0	106237.597	2.0
800.6204	14.02	-1.64	244928.720	0.0	257415.600	1.0
800.6260	64.00	-1.79	7904.437	0.0	20394.663	0.0
800.6336	28.00	-1.38	44314.980	4.0	56801.654	5.0
800.6370	26.02	-3.81	189796.030	1.0	202282.650	2.0
800.6459	14.00	-1.86	50499.838	2.0	62986.320	2.0
800.6690	14.00	-2.82	50499.838	2.0	62985.960	1.0
800.6807	18.01	-4.12	189934.550	.5	202420.490	.5
800.6871	13.00	-4.57	32435.435	1.5	44921.275	1.5
800.6987	22.00	-2.89	17369.590	1.0	29855.248	1.0
800.7089	17.01	-3.60	158723.700	1.0	171209.200	2.0
800.7119	28.00	-2.00	44336.100	4.0	56821.553	3.0
800.7243	27.00	-3.53	33439.720	4.5	45924.980	3.5
800.7345	26.02	.70	207257.000	2.0	219742.100	3.0
800.7345	26.02	-.00	207257.000	2.0	219742.100	2.0
800.7732	13.00	-3.61	32436.778	2.5	44921.275	1.5
800.7751	9.00	-1.62	116040.883	1.5	128525.350	2.5
800.7911	13.00	-3.87	32435.435	1.5	44919.654	.5
800.8044	23.00	-3.66	25130.960	2.5	37614.970	3.5
800.8352	23.00	-.63	24838.560	3.5	37322.090	3.5
800.8365	25.00	-4.04	49591.510	1.5	62075.020	2.5
800.8386	14.00	-2.16	49028.294	0.0	61511.770	1.0
800.8423	22.00	-2.60	17423.853	2.0	29907.273	2.0
800.8898	22.00	-4.50	35577.140	2.0	48059.820	3.0
800.9079	9.00	-2.37	116040.883	1.5	128523.280	1.5
800.9160	14.02	-2.25	244933.360	1.0	257415.600	1.0
800.9180	14.02	-1.77	244933.360	1.0	257415.600	2.0
800.9294	22.00	-3.06	31489.451	4.0	43971.513	5.0
800.9308	18.01	-2.33	192712.000	1.5	205194.040	1.5
800.9379	14.00	-3.00	49399.670	1.0	61881.600	1.0
800.9520	22.00	-2.30	35577.140	2.0	48058.850	1.0
800.9680	18.01	-4.97	202429.840	3.5	214911.300	2.5
801.0300	7.00	-2.45	97805.810	1.5	110286.305	2.5
801.0560	24.00	-1.13	50210.870	4.0	62690.960	5.0
801.0580	72.00	-1.98	16615.449	0.0	29098.940	0.0
801.1041	28.01	-4.55	86343.210	5.5	98822.550	6.5
801.1043	9.00	-1.99	116040.883	1.5	128520.220	.5
801.1099	10.01	-1.44	291495.040	2.5	303974.290	1.5
801.1195	26.02	.16	207263.000	3.0	219742.100	3.0
801.1195	26.02	-1.18	207263.000	3.0	219742.100	2.0
801.1259	26.02	.84	207263.000	3.0	219742.000	4.0
801.1272	28.01	-3.36	119833.000	5.5	132311.980	4.5
801.1587	18.01	-3.40	147227.970	.5	159706.460	.5
801.1780	6.00	-1.53	85399.810	2.0	97878.000	2.0
801.1991	24.00	-3.57	50184.100	2.0	62661.960	3.0
801.2255	14.00	-2.16	49060.601	1.0	61538.050	0.0
801.2325	26.01	-8.69	25981.650	3.5	38458.990	4.5
801.2505	28.01	-.31	122120.370	5.5	134597.430	5.5
801.2524	26.01	-3.39	50212.930	2.5	62689.960	2.5
801.2550	10.01	-1.50	279324.890	1.5	291801.880	1.5
801.2590	26.00	-3.17	45220.662	3.0	57697.590	4.0
801.2627	29.01	-4.59	138898.430	1.0	151375.300	2.0
801.2632	14.00	-3.13	50189.389	2.0	62666.250	1.0
801.2698	28.01	-1.52	105838.060	3.5	118314.620	2.5
801.2922	28.01	-.86	121385.800	1.5	133862.210	1.5
801.2923	28.00	-2.25	31786.210	3.0	44262.619	2.0
801.2948	27.00	-.97	41225.760	4.5	53702.130	3.5
801.2960	92.00	-2.25	4355.506	0.0	16835.289	0.0
801.3042	14.00	-2.35	45321.848	3.0	57798.072	2.0
801.3539	24.00	-1.89	36552.130	3.0	49027.580	2.0
801.3807	7.00	-3.06	97770.150	.5	110245.183	.5
801.4059	24.00	-4.63	35813.730	3.0	48288.370	4.0
801.4241	14.00	-4.30	51612.012	0.0	64086.370	1.0
801.4503	25.00	-1.44	50099.160	1.5	62573.110	1.5
801.4535	26.02	-1.13	207268.200	4.0	219742.100	3.0
801.4599	26.02	.17	207268.200	4.0	219742.000	4.0
801.4663	26.02	.96	207268.200	4.0	219741.900	5.0
801.4773	25.00	-3.76	45013.550	2.5	57487.080	2.5
801.4782	18.00	-.30	93143.800	2.0	105617.315	2.0
801.4920	62.01	-1.54	13389.148	0.0	25865.679	0.0
801.4920	25.00	-4.68	23296.670	3.5	35769.970	3.5
801.4940	24.00	-2.04	35501.260	3.0	47974.530	3.0
801.4998	6.00	-1.66	71364.900	1.0	83838.080	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
801.5240	17.00	-2.14	85917.937	.5	98390.740	.5
801.5243	22.00	-3.83	28896.062	5.0	41368.860	4.0
801.5260	40.00	-2.22	10969.423	0.0	23445.625	0.0
801.5470	63.00	-.47	19599.777	0.0	32075.652	0.0
801.5531	28.01	-4.62	117763.910	1.5	130236.260	2.5
801.5570	14.02	-1.77	244943.310	2.0	257415.600	2.0
801.5570	14.02	-1.02	244943.310	2.0	257415.600	3.0
801.5570	14.02	-2.94	244943.310	2.0	257415.600	1.0
801.5692	10.01	-2.91	291968.140	.5	304440.240	.5
801.5724	27.00	-2.81	39649.160	3.5	52121.210	4.5
801.5726	55.00	-.12	14499.257	0.0	26974.733	0.0
801.5736	26.01	-4.62	72238.630	2.5	84710.660	3.5
801.5743	18.02	-1.75	196679.800	3.0	209151.820	2.0
801.5801	28.01	-.21	121385.800	1.5	133857.730	.5
801.6096	24.00	-4.97	42515.350	2.0	54986.820	3.0
801.6315	28.01	-2.12	93390.060	2.5	105861.190	2.5
801.6553	27.00	-1.05	42434.230	2.5	54904.990	2.5
801.6617	26.02	-2.32	186791.780	2.0	199262.440	3.0
801.6636	9.02	-4.59	427731.850	2.5	440202.480	2.5
801.6737	18.00	-3.94	107289.747	2.0	119760.220	1.0
801.7029	22.00	-3.81	31373.801	3.0	43843.620	3.0
801.7180	74.00	-1.80	17986.627	0.0	30459.841	0.0
801.7327	28.00	-3.70	46522.965	2.0	58992.520	2.0
801.7524	20.01	-2.56	68056.910	2.5	80526.160	2.5
801.7524	20.01	-1.26	68056.910	3.5	80526.160	2.5
801.7530	18.01	-1.93	148620.070	1.5	161089.310	.5
801.7549	22.01	-5.02	24961.340	1.5	37430.550	.5
801.7665	24.00	-2.97	36558.550	2.0	49027.580	2.0
801.7806	27.00	-2.17	41225.760	4.5	53694.570	3.5
801.7832	26.02	-1.40	207273.230	5.0	219742.000	4.0
801.7897	26.02	.01	207273.230	5.0	219741.900	5.0
801.7897	26.02	1.08	207273.230	5.0	219741.900	6.0
801.7954	23.00	-.82	24648.100	1.5	37116.680	.5
801.8032	24.00	-3.13	35398.020	4.0	47866.480	4.0
801.8108	9.00	-1.86	116143.579	.5	128611.920	1.5
801.8334	16.01	-1.29	152304.710	3.5	164772.700	3.5
801.8572	6.00	-1.93	71352.510	0.0	83820.130	1.0
801.8759	10.01	-3.36	290371.950	2.5	302839.280	2.5
801.9056	26.00	-2.75	40594.413	4.0	53061.260	5.0
801.9164	30.02	-3.05	221143.700	3.0	233610.400	2.0
801.9380	92.00	-1.70	6936.547	0.0	19406.339	0.0
801.9709	22.00	-5.87	14028.470	2.0	26494.322	2.0
801.9749	25.00	-.94	45156.110	2.5	57621.900	1.5
801.9820	64.00	-1.87	7178.519	0.0	19647.627	0.0
801.9901	28.00	-1.45	44336.100	4.0	56801.654	5.0
802.0064	29.01	-3.48	116388.000	2.0	128853.300	2.0
802.0501	20.01	-1.41	68056.910	2.5	80521.530	1.5
802.0585	20.02	-2.51	346692.340	0.0	359156.830	1.0
802.0630	28.01	-4.67	88128.560	2.5	100592.980	3.5
802.0746	28.00	-4.41	45122.460	1.0	57586.700	2.0
802.1255	6.00	-1.22	71385.380	2.0	83848.830	3.0
802.1403	22.01	-3.20	52631.070	3.5	65094.290	4.5
802.1525	23.00	-4.42	19078.150	3.5	31541.180	3.5
802.1576	18.00	-3.89	113020.390	3.0	125483.340	2.0
802.1692	18.00	-2.71	113020.390	3.0	125483.160	3.0
802.1737	28.01	.14	122120.370	5.5	134583.070	6.5
802.1866	24.00	-3.10	50184.100	2.0	62646.600	2.0
802.1902	28.00	-1.58	45281.152	3.0	57743.596	3.0
802.1969	27.00	-4.91	42434.230	2.5	54896.570	3.5
802.1975	28.01	-4.41	55417.830	3.5	67880.160	2.5
802.1989	18.00	-2.66	113020.390	3.0	125482.700	3.0
802.1989	18.00	-1.32	113020.390	3.0	125482.700	4.0
802.2090	73.00	-.95	28552.762	0.0	41018.341	0.0
802.2091	27.00	-.46	33462.830	2.5	45924.980	3.5
802.2188	7.02	.94	342752.000	3.5	355214.000	4.5
802.2188	7.02	-.61	342752.000	3.5	355214.000	3.5
802.2210	22.00	-1.49	36000.144	4.0	48462.110	5.0
802.2284	27.00	-4.90	42988.120	3.5	55449.970	2.5
802.2439	24.00	-4.99	48661.590	3.0	61123.200	4.0
802.2832	29.01	-4.48	118484.000	3.0	130945.000	2.0
802.2832	19.02	-4.09	225051.000	2.5	237512.000	2.5
802.3034	17.00	-2.26	84688.637	.5	97149.323	.5
802.3096	23.00	-6.00	10892.500	3.5	23353.090	3.5
802.3135	15.00	-2.35	68088.270	1.5	80548.800	2.5
802.3263	15.00	-2.80	65373.470	.5	77833.800	1.5
802.3329	17.00	-2.31	84485.309	1.5	96945.536	2.5
802.3392	24.00	-1.83	50210.870	4.0	62671.000	4.0
802.3592	23.00	-4.27	24915.160	1.5	37374.980	.5
802.3793	22.00	-4.98	17369.590	1.0	29829.097	0.0
802.3933	24.00	-4.88	42515.350	2.0	54974.640	2.0
802.3946	29.01	-4.75	135902.430	0.0	148361.700	1.0
802.4052	10.00	-2.49	158601.115	2.0	171060.220	2.0
802.4055	15.01	-2.66	118342.600	1.0	130801.700	1.0
802.4310	22.00	-5.33	14105.680	3.0	26564.385	3.0
802.4693	27.00	-4.96	33466.870	3.5	45924.960	3.5
802.4841	22.00	-1.62	15156.787	4.0	27614.667	4.0
802.4867	28.01	-.43	118442.810	1.5	130900.650	2.5
802.4925	27.00	-3.62	41968.890	2.5	54426.640	1.5
802.5106	26.00	-3.45	36975.640	3.0	49433.108	2.0
802.5120	62.01	-1.63	12179.286	0.0	24640.159	0.0
802.5208	27.00	-1.63	42811.440	3.5	55266.750	3.5
802.5459	21.00	-4.34	20239.920	3.5	32696.840	2.5
802.5547	10.00	-3.33	158601.115	2.0	171057.900	1.0
802.5560	58.01	-2.91	0.000	0.0	12460.190	0.0
802.5575	27.00	-3.16	41969.900	.5	54426.640	1.5
802.5981	28.01	.30	105838.060	3.5	118294.170	3.5
802.6320	62.01	-1.40	13953.751	0.0	26412.761	0.0
802.6477	29.01	-.66	123304.630	1.0	135759.970	2.0
802.6500	73.00	-2.65	5968.656	0.0	18427.386	0.0
802.6549	6.00	-1.89	71364.900	1.0	83820.130	1.0
802.6593	14.00	-2.28	50499.836	2.0	62955.000	2.0
802.6658	15.00	-3.22	67971.140	.5	80426.200	1.5
802.6818	26.00	-4.37	20641.110	4.0	33095.922	4.0
802.6940	14.00	-1.01	50499.838	2.0	62954.460	3.0
802.7038	22.00	-2.30	35652.950	3.0	48107.420	2.0
802.7320	42.01	-2.01	20003.065	0.0	32460.523	0.0
802.7341	23.00	-2.14	8578.520	2.5	21032.520	3.5
802.7443	22.00	-4.51	22081.198	2.0	34535.040	2.0
802.7560	28.01	-2.19	105861.190	2.5	118314.820	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
802.7644	24.00	-1.71	42218.370	0.0	54671.900	1.0
802.7947	28.01	-.53	93528.440	3.5	105981.500	4.5
802.7951	26.00	-2.97	26224.961	3.0	38678.015	2.0
802.8179	6.00	-1.69	71385.380	2.0	83838.080	2.0
802.8280	26.00	-.74	36079.353	3.0	48531.896	3.0
802.8669	29.01	-4.81	116326.160	3.0	128778.100	4.0
802.8714	22.00	-4.91	34078.580	3.0	46530.450	4.0
802.8811	16.01	-3.31	140750.000	1.5	153201.720	1.5
802.8925	28.00	-2.57	44314.960	4.0	56766.523	4.0
802.9040	73.00	-3.12	11695.340	0.0	24150.129	0.0
802.9043	22.00	-2.64	35757.510	4.0	48208.870	3.0
802.9166	14.00	-2.73	49060.601	1.0	61511.770	1.0
802.9217	27.00	-1.19	32654.500	2.5	45105.590	3.5
802.9217	24.00	-2.22	50210.870	4.0	62661.960	3.0
802.9464	10.00	-3.02	159379.993	0.0	171830.700	1.0
802.9475	25.00	-3.27	37630.620	4.5	50081.310	5.5
802.9910	45.00	.23	29278.680	0.0	41732.120	0.0
802.9946	7.00	-3.56	97770.150	.5	110220.107	1.5
803.0281	24.00	-4.40	36212.150	4.0	48661.590	3.0
803.0398	24.00	-3.99	28637.000	3.0	41086.260	3.0
803.0603	20.02	-.80	347758.220	2.0	360207.160	2.0
803.1075	28.01	-4.06	118774.760	.5	131222.970	1.5
803.1204	24.00	-3.57	42538.810	3.0	54986.620	3.0
803.1210	28.01	-1.44	93390.060	2.5	105838.060	3.5
803.1243	23.00	-9.39	13801.530	1.5	26249.480	1.5
803.1301	23.00	-1.51	24992.880	3.5	37440.740	4.5
803.1488	24.00	-4.60	35862.820	4.0	48310.390	5.0
803.1488	28.01	-4.17	116824.150	2.5	129271.720	3.5
803.1933	24.00	-4.48	37205.880	3.0	49652.760	2.0
803.2030	62.01	-1.87	11292.053	0.0	23742.206	0.0
803.2062	28.01	-3.49	121456.320	1.5	133903.000	1.5
803.2075	25.00	-2.38	45259.170	1.5	57705.830	.5
803.2159	26.01	-4.67	72238.630	2.5	84685.160	3.5
803.2269	24.00	-2.35	48661.590	3.0	61107.950	2.0
803.2430	90.00	-1.85	7420.492	0.0	19870.025	0.0
803.2514	22.00	-2.94	17540.205	3.0	29986.185	3.0
803.2604	27.00	-2.94	39649.160	3.5	52095.000	3.5
803.2960	22.00	-2.37	34204.971	4.0	46650.260	3.0
803.3127	10.01	-.74	290371.950	2.5	302816.980	1.5
803.3229	17.00	-4.53	84485.309	1.5	96930.181	.5
803.3572	24.00	-4.62	37205.880	3.0	49650.220	3.0
803.3689	18.01	-2.68	202467.140	1.5	214911.300	2.5
803.3805	27.00	-3.09	41982.660	1.5	54426.640	1.5
803.4147	18.01	-1.82	183675.570	3.5	196119.020	3.5
803.4283	28.01	-3.18	99340.550	3.5	111783.790	3.5
803.4534	24.00	-4.16	33906.650	1.0	46349.500	2.0
803.4551	28.00	-2.44	30163.140	2.0	42605.964	3.0
803.4631	18.01	-4.67	191974.530	1.5	204417.230	1.5
803.4712	10.00	-2.97	158601.115	2.0	171043.690	2.0
803.4790	92.00	-1.07	10243.505	0.0	22689.381	0.0
803.4909	14.00	-1.01	49399.670	1.0	61841.940	2.0
803.4949	10.00	-2.70	159379.993	0.0	171822.200	1.0
803.5103	25.00	-3.77	37630.620	4.5	50072.590	4.5
803.5329	28.01	-.13	121800.340	1.5	134241.960	.5
803.5382	20.00	-2.76	35818.713	3.0	48260.250	3.0
803.5618	14.00	-1.26	48264.292	3.0	60705.464	3.0
803.5962	6.00	-2.44	73975.910	0.0	86416.550	1.0
803.5988	17.01	-3.47	158768.600	2.0	171209.200	2.0
803.6084	25.01	-4.83	55371.300	3.0	67811.750	3.0
803.6110	45.00	.26	31859.720	0.0	44303.552	0.0
803.6203	20.00	-1.89	35818.713	3.0	48258.980	2.0
803.6466	24.00	-2.48	35870.530	4.0	48310.390	5.0
803.6780	7.00	-3.38	97805.810	1.5	110245.183	.5
803.6860	18.01	-1.46	192556.840	2.5	204996.090	3.5
803.6892	15.00	-1.02	68183.200	1.5	80622.400	2.5
803.7150	29.01	-2.74	133984.600	3.0	146423.400	4.0
803.7223	18.00	-1.92	108722.668	0.0	121161.356	1.0
803.7228	15.00	-2.22	65450.020	1.5	77888.700	1.5
803.7234	26.01	-4.74	67000.630	2.5	79439.300	3.5
803.7293	23.00	-6.87	13810.900	.5	26249.480	1.5
803.7499	26.00	-2.79	45833.240	4.0	58271.500	5.0
803.7513	19.00	-3.12	21534.700	2.5	33972.940	1.5
803.7551	24.00	-3.59	35813.730	3.0	48251.910	3.0
803.7603	26.00	-4.54	41130.620	1.0	53568.720	2.0
803.7642	27.00	-3.97	41918.410	3.5	54356.450	4.5
803.7732	29.01	-2.76	138981.300	2.0	151419.200	3.0
803.7822	25.00	-4.62	34463.370	1.5	46901.130	2.5
803.7868	24.00	-1.68	50253.270	5.0	62690.960	5.0
803.8443	28.01	-4.90	118379.110	2.5	130815.910	3.5
803.8617	27.00	-6.76	13795.520	2.5	26232.050	3.5
803.8692	22.00	-.85	25388.334	4.0	37824.748	4.0
803.8999	19.00	-4.07	21537.000	1.5	33972.940	1.5
803.9010	14.00	-4.49	50499.838	2.0	62935.760	3.0
803.9070	24.00	-4.06	42538.810	3.0	54974.640	2.0
803.9080	73.00	-3.34	5968.656	0.0	18407.690	0.0
803.9387	19.00	-3.37	21537.000	1.5	33972.340	.5
803.9658	28.01	-.20	106007.890	2.5	118442.810	1.5
803.9710	25.00	-4.81	37630.620	4.5	50065.460	3.5
803.9768	6.00	-2.70	71385.380	2.0	83820.130	1.0
803.9859	27.00	-3.35	41225.760	4.5	53660.370	5.5
804.0100	40.00	-2.09	14034.408	0.0	26472.064	0.0
804.0195	10.01	-1.83	290803.820	.5	303237.910	1.5
804.0324	27.00	-3.88	41918.410	3.5	54352.300	3.5
804.0499	24.00	-4.41	29824.750	3.0	42258.370	4.0
804.0596	24.00	-2.78	33934.880	3.0	46368.350	3.0
804.0913	28.01	.10	105861.190	2.5	118294.170	3.5
804.0929	9.00	-1.22	104731.050	1.5	117164.006	2.5
804.1087	22.00	-.96	25227.217	3.0	37659.927	3.0
804.1094	24.00	-4.43	33935.650	2.0	46368.350	3.0
804.1290	76.00	-2.85	10969.423	0.0	23405.239	0.0
804.1756	10.00	-2.24	158601.115	2.0	171032.790	3.0
804.1864	24.00	-4.50	29824.750	3.0	42256.260	3.0
804.1938	22.00	-3.32	17423.853	2.0	29855.248	1.0
804.1943	22.00	-1.03	25107.417	2.0	37538.804	2.0
804.2129	29.01	-1.40	133984.600	3.0	146415.700	2.0
804.2276	22.00	-4.82	17540.205	3.0	29971.078	4.0
804.2510	23.00	-1.02	24727.850	2.5	37158.360	1.5
804.2567	28.00	-1.66	44336.100	4.0	56766.523	4.0
804.2989	24.00	-4.91	29824.750	3.0	42254.520	2.0
804.3313	27.00	-2.89	33945.900	2.5	46375.170	1.5
804.3330	60.00	-1.93	1048.548	0.0	13461.210	0.0
804.3371	25.00	-4.00	23296.670	3.5	35725.850	2.5
804.3520	26.01	-3.53	72619.610	2.5	85046.560	1.5
804.3539	21.00	-2.66	24656.800	.5	37065.720	.5
804.3539	21.00	-2.61	24656.800	1.5	37065.720	.5
804.3746	22.00	-3.97	35757.510	4.0	48186.110	4.0
804.3766	18.01	-3.62	148620.070	1.5	161048.640	1.5
804.4018	28.01	.31	104646.520	3.5	117074.700	3.5
804.4154	23.01	-3.52	36425.070	4.0	48855.040	5.0
804.4303	18.01	-.19	183675.570	3.5	196103.310	4.5
804.4394	28.02	-3.62	121412.200	2.0	133839.600	1.0
804.4407	14.01	-.60	112394.820	1.5	124622.400	2.5
804.4510	14.01	-1.75	112394.980	2.5	124822.400	2.5
804.4549	14.01	-.44	112394.980	2.5	124822.340	3.5
804.4970	25.01	-4.88	89062.600	5.0	101489.310	5.0
804.5171	22.00	-1.73	36298.430	1.0	48724.830	1.0
804.5203	27.00	-3.74	40345.950	2.5	52772.300	2.5
804.5255	25.00	-3.12	45060.810	3.5	57467.060	2.5
804.5339	6.00	-1.81	71364.900	1.0	83791.040	2.0
804.5400	45.00	.44	29681.967	0.0	42111.430	0.0
804.5436	24.00	-1.34	35884.400	5.0	48310.390	5.0
804.5488	22.00	-1.93	36298.430	1.0	48724.340	2.0
804.5494	13.01	-1.76	134917.300	1.0	147343.200	2.0
804.5643	22.01	-4.38	52458.980	1.5	64884.650	2.5
804.5701	28.01	-4.99	115565.980	2.5	127991.560	3.5
804.5721	24.00	-3.89	35862.820	4.0	48288.370	4.0
804.5902	22.00	-1.74	36414.470	3.0	48839.740	3.0
804.5934	18.02	-3.43	240150.660	0.0	252575.880	1.0
804.6039	26.00	-.05	35611.608	3.0	48036.667	2.0
804.6050	40.00	-1.22	14599.011	0.0	27027.470	0.0
804.6142	12.01	-1.92	103419.700	2.5	115844.600	2.5
804.6142	12.01	-.62	103419.700	2.5	115844.600	3.5
804.6164	18.00	-2.78	106087.305	1.0	118512.170	0.0
804.6182	20.00	-4.86	35835.413	2.0	48260.250	3.0
804.6310	20.02	-.69	346732.190	1.0	359156.830	1.0
804.6336	12.01	-.77	103420.000	1.5	115844.600	2.5
804.6398	7.00	-2.25	97770.150	.5	110194.654	1.5
804.6692	28.01	-2.90	109846.000	3.5	122270.050	3.5
804.6802	14.00	-1.76	49399.670	1.0	61823.550	2.0
804.6841	15.00	-.83	65787.380	3.5	78211.200	2.5
804.7005	20.00	-4.78	35835.413	2.0	48258.960	2.0
804.7139	23.00	-1.18	24898.730	2.5	37322.090	3.5
804.7446	20.00	-2.95	35835.413	2.0	48258.300	1.0
804.7502	17.01	-2.97	158786.400	3.0	171209.200	2.0
804.7589	22.00	-3.03	31628.668	5.0	44051.333	6.0
804.7621	26.00	-4.95	6928.266	5.0	19350.682	5.0
804.7690	28.01	-3.72	119889.470	5.5	132311.960	4.5
804.7696	29.01	-3.27	138981.300	2.0	151403.800	2.0
804.7720	12.00	-1.97	47841.119	0.0	60263.583	1.0
804.7753	26.00	-3.93	45551.748	1.0	57974.160	2.0
804.8040	24.00	-4.07	42564.850	4.0	54986.820	3.0
804.8080	64.00	-1.94	7017.204	0.0	19442.528	0.0
804.8534	26.00	-2.53	32873.623	4.0	45294.830	5.0
804.8603	29.01	-3.04	138981.300	2.0	151402.400	3.0
804.8700	62.01	-1.17	13953.751	0.0	26376.118	0.0
804.8707	9.00	-3.78	126282.580	1.5	138703.520	2.5
804.8772	27.00	-3.31	39649.160	3.5	52070.000	2.5
804.8831	18.01	-2.05	192556.840	2.5	204977.590	2.5
804.8895	24.00	-1.09	50253.270	5.0	62673.920	6.0
804.8970	26.00	-3.90	33412.706	3.0	45833.240	4.0
804.9366	14.00	-1.20	50566.397	1.0	62986.320	2.0
804.9599	14.00	-1.44	50566.397	1.0	62985.960	1.0
804.9822	23.00	-3.27	21646.390	3.5	34065.610	2.5
804.9841	23.00	-5.24	11100.650	4.5	23519.840	4.5
804.9855	12.00	-2.09	47844.414	1.0	60263.583	1.0
804.9855	12.00	-1.79	47844.414	1.0	60263.583	2.0
804.9919	9.02	-2.74	444957.110	1.5	457376.180	.5
805.0716	24.00	-1.44	35870.530	4.0	48288.370	4.0
805.0788	27.00	-1.45	40345.950	2.5	52763.660	3.5
805.0788	24.00	-2.39	50253.270	5.0	62671.000	4.0
805.1072	17.00	-2.30	72827.036	.5	85244.330	.5
805.1151	26.02	-3.00	186882.980	3.0	199300.150	2.0
805.1222	20.02	.12	347383.510	4.0	359800.570	3.0
805.1390	57.00	-1.59	4032.876	0.0	16453.092	0.0
805.1475	24.00	-3.83	35501.260	3.0	47917.930	2.0
805.1537	26.00	-2.92	47755.485	3.0	60172.060	4.0
805.1663	24.00	-2.78	35398.020	4.0	47814.400	3.0
805.1722	10.01	-4.79	305365.130	3.5	317781.420	2.5
805.1864	16.01	-1.45	115817.000	2.5	128233.070	2.5
805.1916	26.02	-4.88	189784.520	2.0	202200.510	3.0
805.2221	18.01	-1.01	190592.170	1.5	203007.690	1.5
805.2279	25.00	-1.10	50099.160	1.5	62514.590	2.5
805.2638	26.00	-4.01	37046.000	4.0	49460.676	5.0
805.2681	24.00	-4.36	37205.880	3.0	49620.690	4.0
805.3012	18.01	-1.56	183675.570	3.5	196089.870	2.5
805.3014	7.00	-2.75	97805.810	1.5	110220.107	1.5
805.3060	40.00	-1.41	14599.011	0.0	27016.651	0.0
805.3103	26.02	-3.52	186303.440	3.0	198717.600	4.0
805.3239	25.00	-.63	50012.530	2.5	62426.460	3.5
805.3278	18.01	-1.01	202253.590	1.5	214667.480	2.5
805.3304	24.00	-3.12	33935.650	2.0	46349.500	2.0
805.3304	18.00	-2.52	106237.597	2.0	118651.447	1.0
805.3369	27.00	-3.01	33462.830	2.5	45876.580	2.5
805.3375	27.00	-6.88	14036.280	1.5	26450.020	2.5
805.3745	22.01	-4.58	52471.480	2.5	64884.650	2.5
805.3881	28.01	.25	94729.250	2.5	107142.210	1.5
805.3930	73.00	-3.05	10888.765	0.0	23305.064	0.0
805.3953	29.01	-4.81	118532.150	2.0	130945.000	1.0
805.4147	25.00	-1.17	49888.080	3.5	62300.630	4.5
805.4231	12.00	-3.27	47851.162	2.0	60263.583	1.0
805.4231	12.00	-2.26	47851.162	2.0	60263.583	2.0
805.4231	12.00	-1.34	47851.162	2.0	60263.583	3.0
805.4388	22.00	-3.64	31489.451	4.0	43901.630	4.0
805.4860	74.00	-2.86	13711.778	0.0	26126.643	0.0
805.5177	22.00	-4.15	26803.417	2.0	39214.380	3.0
805.5218	15.00	-2.66	68183.200	1.5	80594.100	1.5
805.5290	40.00	-2.59	4355.506	0.0	16769.708	0.0
805.5595	25.02	-2.96	218977.340	3.5	231387.660	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
805.5600	92.00	-1.49	8065.752	0.0	20479.477	0.0
805.5600	74.00	-1.60	19680.435	0.0	32094.160	0.0
805.5692	28.01	-2.39	121325.090	2.5	133735.260	2.5
805.5738	17.01	-3.23	161634.900	2.0	174045.000	3.0
805.5760	40.00	-2.48	5000.766	0.0	17414.244	0.0
805.5848	24.00	-3.70	35807.900	2.0	48217.830	2.0
805.5874	28.01	-2.42	121325.090	2.5	133734.980	3.5
805.5958	28.00	-2.44	43464.019	1.0	55873.780	2.0
805.5991	27.00	-4.63	33466.870	3.5	45876.580	2.5
805.6419	25.00	-4.69	51014.950	3.5	63424.000	3.5
805.6478	9.02	-.28	458594.860	2.5	471003.820	1.5
805.6520	72.00	-1.65	14599.011	0.0	27011.318	0.0
805.6711	13.01	-2.35	132776.400	0.0	145185.000	1.0
805.6954	10.00	-2.67	158601.115	2.0	171009.340	1.0
805.7835	22.00	-4.25	35652.950	3.0	48059.620	3.0
805.7872	14.00	-2.19	49188.617	2.0	61595.430	1.0
805.7952	29.01	-3.14	116371.410	4.0	128778.100	4.0
805.8019	7.00	-1.72	97805.810	1.5	110212.396	2.5
805.8023	25.00	-.51	49888.080	3.5	62294.660	3.5
805.8036	15.00	-2.86	66813.040	1.5	79219.600	.5
805.8062	24.00	-2.27	50264.480	3.0	62671.000	4.0
805.8080	40.00	-2.02	5000.766	0.0	17410.670	0.0
805.8172	24.00	-4.53	28637.000	3.0	41043.350	3.0
805.8206	14.00	-2.46	51612.012	0.0	64018.310	1.0
805.8220	42.00	.28	45571.499	0.0	57981.187	0.0
805.8237	16.01	-2.79	143623.030	1.5	156029.280	1.5
805.8369	22.00	-4.26	28788.372	4.0	41194.420	3.0
805.8400	17.01	-2.00	131768.000	2.0	144174.000	3.0
805.8471	28.01	-.20	121456.320	1.5	133862.210	1.5
805.8621	6.00	-1.18	71385.380	2.0	83791.040	2.0
805.9062	25.01	-4.70	89062.600	5.0	101467.580	6.0
805.9127	26.02	-4.90	188109.580	3.0	200514.460	4.0
805.9634	24.00	-4.53	35813.730	3.0	48217.830	2.0
805.9647	24.00	-4.69	28682.180	2.0	41086.260	3.0
805.9719	24.00	-3.29	35884.400	5.0	48288.370	4.0
805.9838	26.00	-2.87	47960.973	4.0	60364.760	3.0
806.0193	26.01	-2.41	54870.620	2.5	67273.860	1.5
806.0360	74.00	-2.39	18147.942	0.0	30554.336	0.0
806.0505	26.00	-4.99	45294.830	5.0	57697.590	4.0
806.0784	18.01	-3.45	202429.840	3.5	214832.170	3.5
806.0908	24.00	-3.91	35807.900	2.0	48210.040	1.0
806.0979	26.01	-4.00	86929.920	3.5	99331.950	4.5
806.1064	19.02	-3.11	238455.100	.5	250857.000	.5
806.1220	24.00	-3.88	37233.500	5.0	49635.160	6.0
806.1220	18.01	-.86	179931.770	1.5	192333.430	.5
806.1265	24.00	-2.11	35572.940	2.0	47974.530	3.0
806.1272	15.00	-2.42	67113.820	2.5	79515.400	3.5
806.1382	28.01	-.98	121456.320	1.5	133857.730	.5
806.1441	28.01	-1.34	121042.570	1.5	133443.890	2.5
806.2070	17.00	-1.77	85442.430	1.5	97842.783	1.5
806.2364	6.00	-1.76	71352.510	0.0	83752.410	1.0
806.2907	22.00	-3.66	17369.590	1.0	29768.655	2.0
806.3090	40.00	-1.62	5000.766	0.0	17402.959	0.0
806.3177	28.01	-4.51	119913.330	4.5	132311.980	4.5
806.3500	45.00	.09	31859.720	0.0	44261.283	0.0
806.3938	24.00	-3.18	50264.480	3.0	62661.960	3.0
806.4081	23.00	-1.06	24830.180	1.5	37227.440	2.5
806.4159	18.01	-4.40	199679.760	2.5	212076.900	2.5
806.4165	15.00	-2.26	65373.470	.5	77770.600	.5
806.4588	26.00	-4.85	46313.610	2.0	58710.090	3.0
806.5005	28.01	-4.80	101357.200	4.5	113753.040	4.5
806.5031	24.00	-3.88	35398.020	4.0	47793.620	5.0
806.5545	26.02	-3.23	186378.940	4.0	198773.950	5.0
806.5564	25.00	-4.24	44993.920	3.5	57388.900	4.5
806.5666	24.00	-1.93	48661.590	3.0	61056.410	4.0
806.5935	28.01	-4.65	118828.610	2.5	131223.020	2.5
806.5968	13.00	-1.94	32949.804	.5	45344.164	1.5
806.6022	22.00	-2.90	15220.390	5.0	27614.667	4.0
806.6039	18.01	-1.20	192556.840	2.5	204951.090	3.5
806.6052	23.01	-5.59	26839.820	3.0	39234.050	3.0
806.6144	25.00	-4.88	50359.280	3.5	62753.370	2.5
806.6202	29.01	-3.19	138981.300	2.0	151375.300	2.0
806.6339	28.01	-3.49	121561.060	.5	133954.650	.5
806.6475	27.00	-.47	34352.420	1.5	46746.000	2.5
806.6615	18.00	-2.10	107289.747	2.0	119683.113	2.0
806.6703	28.01	-1.01	121050.660	2.5	133443.890	2.5
806.7374	24.00	-4.49	37205.880	3.0	49598.080	2.0
806.7439	17.01	-3.31	165362.100	0.0	177754.200	1.0
806.7478	18.01	-3.10	199679.760	2.5	212071.600	3.5
806.7719	24.00	-3.73	33906.650	1.0	46298.320	1.0
806.8250	22.00	-1.73	15108.121	3.0	27498.975	3.0
806.8460	62.01	-1.10	14034.408	0.0	26428.347	0.0
806.8800	26.02	-3.42	186268.790	2.0	198658.800	3.0
806.8980	73.00	-2.20	15324.929	0.0	27718.069	0.0
806.9132	29.01	-1.65	133826.700	2.0	146215.700	1.0
806.9275	9.02	-4.66	440359.260	3.5	452748.540	2.5
806.9340	28.01	-4.10	114942.420	1.5	127331.600	2.5
806.9536	23.00	-1.49	24838.560	3.5	37227.440	2.5
806.9559	7.00	-4.61	97805.810	1.5	110194.654	1.5
806.9646	27.00	-3.70	36329.860	2.5	48718.570	2.5
806.9691	22.00	-6.59	14105.680	3.0	26494.322	2.0
806.9716	14.00	-1.57	50566.397	1.0	62955.000	2.0
806.9738	22.00	-2.75	29818.310	3.0	42206.880	2.0
807.0044	17.01	-4.57	128621.900	1.0	141010.000	2.0
807.0080	40.00	-.79	5807.341	0.0	18198.792	0.0
807.0109	15.01	-1.30	129570.400	1.0	141958.400	1.0
807.0168	22.00	-2.64	33680.130	3.0	46068.040	4.0
807.0278	23.00	-2.17	24770.620	.5	37158.360	1.5
807.0285	23.00	-2.66	20767.570	3.5	33155.300	4.5
807.0428	6.00	-1.78	71364.900	1.0	83752.410	1.0
807.0592	14.00	-1.53	49060.601	1.0	61447.660	2.0
807.0637	24.00	-3.51	37233.500	5.0	49620.690	4.0
807.0677	22.00	-3.73	27025.652	4.0	39412.780	5.0
807.1015	6.00	-3.39	73975.910	0.0	86362.520	1.0
807.1284	14.00	-1.42	49188.617	2.0	61574.614	3.0
807.1289	8.01	-3.07	233430.100	.5	245816.290	1.5
807.1314	28.01	-4.42	118379.110	2.5	130765.260	3.5
807.1757	28.01	-4.53	116468.400	1.5	128853.870	2.5
807.1998	15.00	-3.56	66834.500	1.5	79219.600	.5
807.2172	26.00	-3.40	19552.474	1.0	31937.308	1.0
807.2187	19.00	-3.15	21026.580	.5	33411.390	1.5
807.2611	22.00	-2.21	36340.670	2.0	48724.830	1.0
807.2644	24.00	-3.07	37233.500	5.0	49617.610	5.0
807.2644	28.01	-4.40	66571.340	2.5	78955.450	1.5
807.2755	25.02	-4.37	218977.340	3.5	231361.280	2.5
807.2859	15.00	-1.56	65450.020	1.5	77833.800	1.5
807.2931	22.00	-1.73	36340.670	2.0	48724.340	2.0
807.2944	19.00	-3.45	21026.580	.5	33410.230	.5
807.3028	20.02	-1.83	347417.050	3.0	359800.570	3.0
807.3028	14.00	-1.31	50602.440	0.0	62985.960	1.0
807.3107	13.01	-1.88	133914.100	2.0	146297.500	1.0
807.3146	28.01	-3.46	114836.630	3.5	127219.970	3.5
807.3341	26.00	-4.61	46137.140	3.0	58520.180	4.0
807.3759	18.01	-.61	179592.130	2.5	191974.530	1.5
807.3785	10.01	-1.84	280268.960	2.5	292651.320	1.5
807.3941	24.00	-3.90	50264.480	3.0	62646.600	2.0
807.3956	26.00	-4.84	40534.180	3.0	52916.276	2.0
807.4150	25.00	-4.47	44978.980	1.5	57360.780	1.5
807.4176	20.02	-.31	331403.200	1.0	343784.960	1.0
807.4307	14.02	-2.32	242473.860	4.0	254855.420	3.0
807.4319	26.01	-4.19	60270.370	3.5	72651.910	3.5
807.4424	24.00	-4.49	35870.530	4.0	48251.910	3.0
807.4568	14.00	-4.76	49850.830	2.0	62231.990	2.0
807.4574	14.02	-2.22	242474.270	4.0	254855.420	3.0
807.4575	14.00	-2.89	48264.292	3.0	60645.441	2.0
807.4580	24.00	-3.97	37883.340	2.0	50264.480	3.0
807.4626	23.00	-6.20	13801.530	1.5	26182.600	.5
807.5063	29.01	-.73	138402.200	3.0	150782.600	2.0
807.5154	26.01	-3.66	60270.370	3.5	72650.630	4.5
807.5156	26.00	-5.02	7376.762	4.0	19757.020	3.0
807.5233	25.00	-3.28	50373.230	2.5	62753.370	2.5
807.5353	13.00	-1.67	32965.643	1.5	45345.598	2.5
807.5461	29.01	-.98	110365.980	2.0	122745.770	2.0
807.5500	24.00	-1.16	42438.820	2.0	54818.550	2.0
807.5519	9.00	-.22	116143.579	.5	128523.280	1.5
807.5552	24.00	-4.26	21810.840	1.0	34190.490	2.0
807.5650	90.00	-1.63	11695.340	0.0	24076.244	0.0
807.5676	26.02	-2.32	186882.980	3.0	199262.440	3.0
807.5982	10.01	-1.63	279422.890	.5	291801.680	1.5
807.6015	24.00	-1.73	42292.960	1.0	54671.900	1.0
807.6067	10.00	-3.05	159534.620	1.0	171913.480	0.0
807.6067	10.01	-1.34	290371.950	2.5	302750.610	3.5
807.6289	13.00	-2.63	32965.643	1.5	45344.164	1.5
807.6694	10.01	-3.91	290583.170	1.5	302961.070	1.5
807.6798	28.01	-4.40	116893.980	2.5	129271.720	3.5
807.6916	20.02	-1.26	350741.190	3.0	363118.750	3.0
807.7020	23.00	-3.15	31541.180	3.5	43916.560	2.5
807.7516	9.00	-.62	116143.579	.5	128520.220	.5
807.7590	64.00	-1.59	7017.204	0.0	19397.134	0.0
807.7594	24.00	-3.57	37244.170	4.0	49620.690	4.0
807.7640	18.00	-4.42	114147.750	1.0	126524.200	0.0
807.7692	24.00	-3.31	35934.020	6.0	48310.390	5.0
807.7999	15.00	-4.51	68246.500	2.5	80622.400	2.5
807.8012	6.00	-4.20	71385.380	2.0	83761.260	3.0
807.8104	28.01	-3.67	66579.710	1.5	78955.450	1.5
807.8117	19.00	-2.59	21534.700	2.5	33910.420	2.5
807.8117	19.00	-1.29	21534.700	2.5	33910.420	3.5
807.8483	6.00	-1.66	71364.900	1.0	83740.060	0.0
807.8935	26.00	-3.12	38995.717	1.0	51370.184	2.0
807.8940	55.00	-1.34	14596.845	0.0	26974.706	0.0
807.9036	55.00	-.04	14596.845	0.0	26974.559	0.0
807.9122	24.00	-2.04	48824.500	4.0	61198.680	3.0
807.9174	9.02	-4.14	430374.750	2.5	442748.850	2.5
807.9220	21.00	-1.35	32751.540	3.5	45125.570	4.5
807.9605	24.00	-3.60	37244.170	4.0	49617.610	5.0
807.9618	19.00	-1.45	21537.000	1.5	33910.420	2.5
807.9677	18.00	-1.15	111667.870	0.0	124041.200	1.0
808.0206	27.00	-2.48	32733.070	3.5	45105.590	3.5
808.0320	72.00	-2.77	5565.369	0.0	17941.116	0.0
808.0428	23.00	-3.78	25130.960	2.5	37503.140	2.5
808.0508	22.00	-2.30	17540.205	3.0	29912.262	3.0
808.0551	26.00	-2.94	26623.726	2.0	38995.717	1.0
808.0594	22.00	-4.19	15108.121	3.0	27480.047	3.0
808.0709	23.00	-3.95	19026.340	2.5	31398.090	2.5
808.0741	23.00	-6.70	13810.900	.5	26182.600	.5
808.0872	13.01	-2.27	134917.300	1.0	147288.800	0.0
808.0911	26.01	-4.50	54902.420	1.5	67273.860	1.5
808.1055	28.01	-.24	106007.890	2.5	118379.110	2.5
808.1362	27.00	-2.72	40345.950	2.5	52716.700	3.5
808.1787	25.00	-2.52	50383.270	1.5	62753.370	2.5
808.1892	20.02	-.56	373880.370	3.0	386250.310	3.0
808.2238	20.02	.87	373880.370	3.0	386249.780	4.0
808.2457	10.00	-2.21	135868.717	1.0	148257.790	1.0
808.2505	23.00	-1.11	24789.360	.5	37156.360	1.5
808.2532	27.00	-.92	42796.670	1.5	55165.630	2.5
808.2636	11.02	-4.97	399179.400	2.5	411546.200	2.5
808.3146	20.02	-3.73	373880.370	3.0	386248.390	4.0
808.3704	22.00	-2.35	33700.874	4.0	46066.040	4.0
808.3714	24.00	-3.44	37205.880	3.0	49573.030	4.0
808.3767	18.01	-1.70	192712.000	1.5	205079.070	2.5
808.3768	22.00	-3.50	17540.205	3.0	29907.273	2.0
808.3793	6.00	-1.60	71385.380	2.0	83752.410	1.0
808.3825	18.01	-3.63	202544.320	2.5	214911.300	2.5
808.3924	18.01	-1.54	189414.960	3.5	201781.790	2.5
808.4139	26.02	-3.06	186454.890	5.0	198821.390	6.0
808.4329	10.01	-.81	281720.280	1.5	294086.490	1.5
808.4509	17.00	-.79	84120.263	2.5	96486.198	1.5
808.4538	18.00	-3.68	113426.050	2.0	125791.940	2.0
808.4551	24.00	-2.85	42438.820	2.0	54804.690	1.0
808.4603	22.00	-2.02	18818.230	0.0	31184.021	1.0
808.4743	17.00	-1.94	84986.480	1.5	97354.057	1.5
808.4793	13.01	-2.23	134917.300	1.0	147282.600	1.0
808.4793	13.01	-1.76	134917.300	1.0	147282.800	2.0
808.4924	13.01	-2.22	132819.700	3.0	145185.000	2.0
808.4939	17.00	-1.66	85442.430	1.5	97807.707	2.5
808.4957	17.00	-2.48	85735.091	1.5	98100.340	.5
808.4976	24.00	-1.74	35501.260	3.0	47866.480	4.0
808.5016	16.01	-2.68	152094.340	2.5	164459.560	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUF	JUP
808.5055	13.01	-3.05	132819.900	1.0	145185.000	1.0
808.5055	13.01	-2.84	132819.900	1.0	145185.000	0.0
808.5055	13.01	-4.14	132819.900	1.0	145185.000	2.0
808.5055	13.01	-2.57	132819.900	2.0	145185.000	1.0
808.5055	13.01	-2.96	132819.900	2.0	145185.000	2.0
808.5161	26.00	-.21	35856.386	2.0	48221.323	1.0
808.5220	90.00	-2.00	8711.012	0.0	21079.259	0.0
808.5289	22.00	-1.76	18825.890	1.0	31190.631	2.0
808.5561	17.00	.13	84121.872	1.5	96486.198	1.5
808.5565	27.00	-1.23	41918.410	3.5	54282.730	2.5
808.6050	57.00	-1.58	2581.041	0.0	14948.019	0.0
808.6107	18.01	-2.63	147875.860	2.5	160239.350	1.5
808.6191	20.00	-1.73	35896.889	4.0	48260.250	3.0
808.6605	25.00	-3.40	45259.170	1.5	57621.900	1.5
808.6644	24.00	-4.29	33935.650	2.0	46298.320	1.0
808.6644	16.01	-1.88	115870.400	1.5	128233.070	2.5
808.6672	17.00	.33	84120.263	2.5	96482.689	2.5
808.6820	13.01	-1.10	133914.100	2.0	146276.500	3.0
808.7017	26.01	-3.50	71964.810	2.5	84326.910	1.5
808.7344	15.00	-2.02	65585.000	2.5	77946.600	2.5
808.7625	24.00	-4.47	28682.180	2.0	41043.350	3.0
808.7725	17.00	-.80	84121.872	1.5	96482.889	2.5
808.8031	20.02	-2.10	348028.130	3.0	360388.680	3.0
808.8096	24.00	-1.73	48824.500	4.0	61184.950	5.0
808.8581	29.01	-.26	123304.630	1.0	135664.340	1.0
808.8908	28.01	-4.44	118874.110	3.5	131233.320	4.5
808.8978	26.00	-4.18	38175.332	3.0	50534.435	3.0
808.9078	7.01	-3.11	174212.030	2.0	186570.980	3.0
808.9203	8.01	-3.03	233544.090	1.5	245902.650	2.5
808.9614	22.00	-2.25	18825.890	1.0	31184.021	1.0
808.9700	17.01	-2.94	158177.100	1.0	170535.100	2.0
808.9707	16.01	-2.75	151959.410	1.5	164317.400	1.5
808.9830	9.02	-3.58	430012.480	1.5	442370.280	.5
808.9960	64.01	-1.46	19841.750	0.0	32202.751	0.0
809.0079	10.01	-1.41	279137.620	3.5	291495.040	2.5
809.0092	15.00	-1.08	65585.000	2.5	77942.400	1.5
809.0184	27.00	-3.34	28470.510	1.5	40827.770	1.5
809.0315	26.00	-2.32	36940.600	2.0	49297.660	1.0
809.0479	27.00	-4.79	40345.950	2.5	52702.760	1.5
809.0603	24.01	-4.06	55023.300	2.5	67379.920	1.5
809.1022	17.00	-2.48	84648.100	2.5	97004.081	1.5
809.1192	6.00	-3.68	73975.910	0.0	86331.630	1.0
809.1428	26.02	-3.79	186303.440	3.0	198658.800	3.0
809.2195	27.00	-2.07	42811.440	3.5	55165.630	2.5
809.2430	28.01	-4.29	116468.400	1.5	128822.230	1.5
809.2634	29.00	-.16	30811.173	0.0	43168.089	0.0
809.2817	24.00	-1.56	42292.960	1.0	54646.200	0.0
809.3000	28.01	.44	94729.250	2.5	107082.210	2.5
809.3001	16.01	-1.05	152094.340	2.5	164447.300	2.5
809.3021	20.00	-1.19	35730.454	2.0	48083.383	2.0
809.3113	10.00	-3.05	158795.992	1.0	171148.780	0.0
809.3233	14.00	-1.45	47284.061	1.0	59636.667	1.0
809.3276	28.00	-2.42	36600.805	2.0	48953.344	1.0
809.3446	23.00	-2.06	8476.200	1.5	20828.480	2.5
809.3600	90.00	-2.69	3790.903	0.0	16146.344	0.0
809.3931	27.00	-2.08	32430.590	5.5	44782.130	4.5
809.4057	18.00	-4.55	107496.463	1.0	119847.810	1.0
809.4121	18.00	-2.74	113426.050	2.0	125777.300	1.0
809.4673	17.00	-1.39	84988.480	1.5	97338.887	2.5
809.5294	28.01	-2.91	121385.800	1.5	133735.260	2.5
809.5356	26.00	-3.94	35611.608	3.0	47960.973	4.0
809.5438	26.01	-4.93	60270.370	3.5	72619.610	2.5
809.5517	29.01	.40	108335.430	2.0	120684.550	3.0
809.5596	27.00	-4.00	40621.620	1.5	52970.620	2.5
809.5655	28.01	-4.89	118874.110	3.5	131223.020	2.5
809.5817	28.00	-3.10	45418.858	2.0	57767.520	1.0
809.6514	15.00	-4.10	68246.500	2.5	80594.100	1.5
809.6579	17.01	-3.94	128662.500	2.0	141010.000	2.0
809.6649	26.00	-4.24	24338.766	3.0	36686.159	4.0
809.6750	28.01	.76	91800.050	4.5	104147.290	5.5
809.6756	25.00	-3.91	45013.550	2.5	57360.780	1.5
809.6881	26.00	-1.44	32873.623	4.0	45220.662	3.0
809.6913	26.00	-3.83	42532.729	3.0	54879.720	2.0
809.6920	28.01	-4.38	118874.110	3.5	131221.090	3.5
809.7235	26.01	-4.37	87571.800	2.5	99918.300	1.5
809.7235	22.01	-4.56	52631.070	3.5	64977.570	3.5
809.7386	24.00	-2.15	48558.570	2.0	60904.840	3.0
809.7419	26.01	-3.72	72524.620	1.5	84870.640	2.5
809.7523	23.00	-2.95	24770.620	.5	37116.680	.5
809.7609	28.01	-4.26	118877.090	1.5	131223.020	2.5
809.7642	28.01	-4.54	118877.090	1.5	131222.970	1.5
809.7666	22.00	-2.23	26803.417	2.0	39149.260	2.0
809.8160	28.01	-3.78	114874.880	2.5	127219.970	3.5
809.8225	24.00	-2.09	35572.940	2.0	47917.930	2.0
809.8349	22.00	-2.42	17423.853	2.0	29768.655	2.0
809.8665	23.00	-2.89	31721.730	4.5	44066.050	3.5
809.8707	12.00	-2.35	47957.028	2.0	60301.283	2.0
809.8707	12.00	-1.27	47957.028	2.0	60301.283	3.0
809.8707	12.00	-3.89	47957.028	2.0	60301.283	3.0
809.8719	12.00	-3.72	47957.045	3.0	60301.283	2.0
809.8719	12.00	-2.39	47957.045	3.0	60301.283	3.0
809.8719	12.00	-2.59	47957.045	3.0	60301.283	3.0
809.8719	12.00	-1.12	47957.045	3.0	60301.283	4.0
809.8726	12.00	-1.45	47957.056	1.0	60301.283	2.0
809.8730	18.01	-2.66	192712.000	1.5	205056.220	1.5
809.9144	27.00	-3.92	44201.920	2.5	56545.510	2.5
809.9633	22.00	-3.78	31628.668	5.0	43971.513	5.0
809.9787	24.00	-4.53	21847.880	2.0	34190.490	2.0
810.0064	22.00	-2.91	15156.787	4.0	27498.975	3.0
810.0110	73.00	-3.38	9598.245	0.0	21943.756	0.0
810.0227	28.01	-4.13	121561.060	.5	133903.000	1.5
810.0778	23.00	-4.86	24648.100	1.5	36989.200	2.5
810.0786	28.00	-3.24	43933.428	2.0	56274.516	2.0
810.0890	28.01	-3.17	99442.860	4.5	111783.790	3.5
810.1041	29.01	-1.43	138402.200	3.0	150742.900	3.0
810.1099	15.01	-3.29	106001.990	1.0	118342.600	1.0
810.1277	27.00	-2.02	41918.410	3.5	54258.750	2.5
810.1809	24.00	-3.67	37233.500	5.0	49573.030	4.0
810.1973	20.02	-1.26	350779.470	3.0	363118.750	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUF	JUP
810.2380	26.02	-3.43	186378.940	4.0	198717.600	4.0
810.2446	24.00	-.96	42648.260	3.0	54986.620	3.0
810.2708	14.02	1.06	230301.220	3.0	242639.380	4.0
810.2859	15.00	-1.93	68088.270	1.5	80426.200	1.5
810.2997	14.02	-.48	230301.660	4.0	242639.380	4.0
810.2997	14.02	1.16	230301.660	4.0	242639.380	5.0
810.2997	14.02	-2.59	230301.660	4.0	242639.380	5.0
810.3010	8.01	-2.96	233430.100	.5	245767.600	.5
810.3037	9.02	-5.00	427731.850	2.5	440069.510	1.5
810.3076	17.01	-3.53	158177.100	1.0	170514.700	1.0
810.3227	14.02	-3.16	230302.010	4.0	242639.360	5.0
810.3227	14.02	1.16	230302.010	4.0	242639.380	5.0
810.3227	14.02	-.58	230302.010	4.0	242639.360	4.0
810.3299	28.01	.32	118563.390	3.5	130900.650	2.5
810.3451	14.02	-.48	230302.350	5.0	242639.380	5.0
810.3451	14.02	-.59	230302.350	5.0	242639.380	5.0
810.3451	14.02	1.24	230302.350	5.0	242639.380	6.0
810.3451	14.02	-2.22	230302.350	5.0	242639.380	4.0
810.3569	24.00	-4.88	48824.500	4.0	61161.350	5.0
810.3589	20.02	.09	348051.860	4.0	360386.680	3.0
810.3687	18.01	-3.15	143371.350	1.5	155706.020	.5
810.3690	18.00	-.11	93750.639	1.0	106087.305	1.0
810.4346	9.00	-4.12	105056.282	.5	117391.950	.5
810.4541	25.00	-3.34	37737.220	3.5	50072.590	4.5
810.4561	28.01	-4.99	118897.940	2.5	131233.280	3.5
810.4670	42.00	.10	39280.212	0.0	51616.777	0.0
810.4712	28.01	-4.12	104503.220	2.5	116836.330	1.5
810.5251	24.00	-4.44	28637.000	3.0	40971.290	2.0
810.5649	7.00	-1.95	97770.150	.5	110103.834	1.5
810.5750	28.01	-4.01	122047.290	3.5	134380.820	3.5
810.5770	15.00	-2.60	68260.600	.5	80594.100	1.5
810.6105	26.01	-4.72	72352.170	3.5	84685.160	3.5
810.6263	28.01	.42	93528.440	3.5	105861.190	2.5
810.6361	25.00	-3.26	38008.700	5.5	50341.300	4.5
810.6526	25.01	-4.72	56883.380	1.0	69215.730	1.0
810.7203	28.01	-4.35	116468.400	1.5	128799.720	.5
810.7348	13.01	-1.46	135012.100	1.0	147343.200	2.0
810.8163	25.00	-.96	45156.110	2.5	57465.970	2.5
810.8242	26.02	-2.34	186882.980	3.0	199212.720	4.0
810.8333	26.00	-3.98	21999.132	4.0	34328.733	3.0
810.8353	18.01	-.99	183985.940	1.5	196315.510	2.5
810.8380	23.01	-7.02	25191.080	2.0	37520.610	3.0
810.8405	28.00	-2.08	43933.428	2.0	56264.920	3.0
810.8452	28.01	-3.74	109846.000	3.5	122175.420	2.5
810.8570	23.00	-.48	25111.500	4.5	37440.740	4.5
810.8590	23.00	-.33	24992.680	3.5	37322.090	3.5
810.8820	24.00	-2.78	37244.170	4.0	49573.030	4.0
810.8919	23.00	-.32	24898.730	2.5	37227.440	2.5
810.8948	22.00	-2.33	36000.144	4.0	48328.810	4.0
810.9149	15.00	-2.86	67971.140	.5	80299.500	1.5
810.9228	25.00	-4.16	37737.220	3.5	50065.460	3.5
810.9268	23.00	-.41	24830.180	1.5	37156.360	1.5
810.9325	26.00	-3.50	48036.667	2.0	60364.760	3.0
810.9833	23.00	-.57	24789.360	.5	37116.680	.5
811.0452	24.00	-2.79	42648.260	3.0	54974.640	2.0
811.0616	25.01	-3.57	43370.370	3.0	55696.500	4.0
811.0669	18.01	-2.21	142717.020	3.5	155043.070	2.5
811.1045	22.00	-3.75	34204.971	4.0	46530.450	4.0
811.1307	28.01	-4.89	118897.940	2.5	131223.020	2.5
811.1465	27.00	-3.92	42988.120	3.5	55312.960	4.5
811.1532	28.00	-4.89	45418.858	2.0	57743.596	3.0
811.2097	27.00	-2.12	32781.710	2.5	45105.590	3.5
811.2176	26.00	-3.80	21715.735	5.0	34039.495	4.0
811.2470	44.00	.12	31696.405	0.0	44025.107	0.0
811.2505	22.00	-3.19	15156.787	4.0	27480.047	3.0
811.2578	28.01	-4.25	118897.940	2.5	131221.090	3.5
811.3559	18.01	-1.13	183797.360	2.5	196119.020	3.5
811.3694	22.00	-2.34	26892.926	3.0	39214.380	3.0
811.4125	9.01	-2.47	257252.840	0.0	269573.640	1.0
811.4211	28.01	.57	92325.850	3.5	104646.520	3.5
811.4270	15.00	-2.49	65450.020	1.5	77770.600	.5
811.4280	40.00	-2.79	5000.766	0.0	17324.718	0.0
811.4691	23.00	-4.90	19078.150	3.5	31398.090	2.5
811.4725	16.01	-2.70	151959.410	1.5	164279.300	.5
811.4961	21.00	-1.51	32696.840	2.5	45016.370	3.5
811.5074	18.00	-1.37	111818.090	1.0	124137.450	2.0
811.5192	23.01	-7.27	22273.540	1.0	34592.720	2.0
811.5225	12.01	-1.29	93310.590	2.5	105629.720	1.5
811.5271	26.02	-3.30	186454.890	5.0	198773.950	5.0
811.5285	18.01	-4.43	189934.550	.5	202253.590	1.5
811.5308	18.00	.39	93143.800	2.0	105462.804	3.0
811.5568	12.01	-2.24	93311.110	1.5	105629.720	1.5
811.5706	26.00	-3.22	40842.130	3.0	53160.530	3.0
811.5778	18.02	-3.09	240257.590	1.0	252575.660	1.0
811.5895	28.00	-.84	43258.792	4.0	55576.905	3.0
811.5930	23.00	-5.63	10892.500	3.5	23210.560	2.5
811.5969	13.01	-4.75	134181.200	4.0	146499.200	4.0
811.5969	13.01	-4.89	134181.200	4.0	146499.200	4.0
811.5969	13.01	-3.23	134181.200	5.0	146499.200	4.0
811.6365	27.00	-2.61	32464.730	4.5	44762.130	4.5
811.6760	23.00	-1.37	8715.720	3.5	21032.520	3.5
811.6892	13.01	-4.89	134181.200	3.0	146497.600	3.0
811.6892	13.01	-3.28	134181.200	4.0	146497.600	3.0
811.6892	13.01	-2.63	134181.200	4.0	146497.600	3.0
811.7024	26.01	-4.47	87601.900	1.5	99916.300	1.5
811.7160	62.01	-1.93	12905.203	0.0	25224.763	0.0
811.7571	28.01	-4.80	96052.480	2.5	108366.050	2.5
811.7617	13.01	-3.46	134181.200	3.0	146496.700	2.0
811.7654	17.00	-3.85	84688.637	.5	97004.081	1.5
811.8711	24.00	-2.92	37205.880	3.0	49519.720	3.0
811.8711	27.00	-2.44	41968.890	2.5	54282.730	2.5
811.8797	27.00	-4.57	43263.570	1.5	55577.280	1.5
811.8935	24.00	-4.96	23305.010	2.0	35616.510	1.0
811.8982	20.02	.14	350805.320	4.0	363118.750	3.0
811.9173	24.00	-2.39	35501.260	3.0	47814.400	3.0
811.9183	18.00	-3.22	107131.755	1.0	119444.880	2.0
811.9265	26.00	-4.49	40842.130	3.0	53155.130	4.0
811.9483	28.01	-.73	105981.500	4.5	118294.170	3.5
811.9660	13.01	-.60	132819.700	3.0	145132.100	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
811.9740	23.00	-2.22	24915.160	1.5	37227.440	2.5
811.9766	28.01	-4.28	118379.110	2.5	130691.350	1.5
812.0076	28.01	-3.01	101740.270	3.5	114052.040	3.5
812.0122	25.00	.22	44993.920	3.5	57305.620	3.5
812.0122	13.01	-2.00	134917.300	1.0	147229.000	1.0
812.0170	40.00	-.82	18631.867	0.0	30946.900	0.0
812.0197	22.00	-1.91	25227.217	3.0	37538.804	2.0
812.0432	12.01	-1.54	93311.110	1.5	105622.340	.5
812.0650	24.01	-4.93	55023.300	2.5	67334.200	3.5
812.0795	18.01	-1.35	189040.870	1.5	201351.550	2.5
812.0973	28.01	-.31	118631.950	.5	130942.360	1.5
812.1165	28.01	-3.55	118923.200	3.5	131233.320	4.5
812.1191	28.01	-4.79	118923.200	3.5	131233.280	3.5
812.1314	22.00	-3.40	15108.121	3.0	27418.015	2.0
812.1317	17.00	-1.66	85735.091	1.5	98044.980	1.5
812.1330	22.00	-2.67	36414.470	3.0	48724.340	2.0
812.1462	28.01	-.14	106133.140	1.5	118442.610	1.5
812.1495	28.01	.56	93528.440	3.5	105838.060	3.5
812.1772	13.01	-2.03	132819.700	3.0	145128.900	3.0
812.1824	26.01	-4.39	120002.860	3.5	132311.980	4.5
812.1864	15.00	-4.31	66813.040	1.5	79122.100	1.5
812.1904	13.01	-1.13	132819.900	2.0	145128.900	3.0
812.2960	10.01	-.44	290583.170	1.5	302890.570	2.5
812.3065	26.01	-7.84	26352.800	4.5	38660.040	3.5
812.3355	13.01	-3.21	132819.700	3.0	145126.500	2.0
812.3487	13.01	-1.66	132819.900	2.0	145126.500	2.0
812.3487	13.01	-.93	132819.900	1.0	145126.500	2.0
812.3659	9.01	-3.25	257267.300	1.0	269573.640	1.0
812.3790	74.00	-2.01	18147.942	0.0	30457.467	0.0
812.3912	37.00	-2.34	19355.203	0.0	31664.544	0.0
812.3917	26.02	-2.86	117950.320	4.0	130256.270	5.0
812.3954	22.00	-2.32	27480.047	3.0	39785.940	4.0
812.4043	20.00	-4.31	35730.454	2.0	48036.212	3.0
812.4182	28.00	-3.98	45281.152	3.0	57586.700	2.0
812.4206	37.00	-3.30	19355.649	0.0	31664.544	0.0
812.4801	24.00	-3.24	35572.940	2.0	47877.550	1.0
812.4834	24.00	-1.68	37233.500	5.0	49538.060	5.0
812.4973	18.01	-.90	189040.870	1.5	201345.220	1.5
812.5120	62.01	-2.19	10808.108	0.0	23115.619	0.0
812.5314	22.00	-1.30	26803.417	2.0	39107.250	1.0
812.5369	28.01	-4.48	122812.970	3.5	135116.720	2.5
812.5402	15.00	-3.10	65585.000	2.5	77888.700	1.5
812.6013	20.00	-2.66	35730.454	2.0	48033.230	2.0
812.6228	9.00	-3.30	115917.909	2.5	128220.360	3.5
812.6320	22.00	-4.68	35757.510	4.0	48059.820	3.0
812.6345	26.00	-4.24	36940.600	2.0	49242.872	3.0
812.6400	3.00	-.16	14904.000	0.0	27209.572	0.0
812.6419	28.01	.25	94067.140	1.5	106369.300	1.5
812.6472	26.00	-2.68	36940.600	2.0	49242.680	2.0
812.6578	9.00	-.79	115917.909	2.5	128219.830	1.5
812.6743	26.01	-4.87	71964.810	2.5	84266.480	2.5
812.7087	28.01	-1.57	121561.060	.5	133862.210	1.5
812.7102	20.00	-2.02	35730.454	2.0	48031.580	1.0
812.7344	24.00	-4.27	37883.340	2.0	50184.100	2.0
812.7470	28.01	-2.09	122080.250	2.5	134380.820	3.5
812.7556	24.00	-1.01	42908.570	4.0	55209.010	4.0
812.7800	27.00	-3.02	41982.660	1.5	54282.730	2.5
812.8045	29.01	-4.35	139119.500	3.0	151419.200	3.0
812.8144	7.01	-1.83	174212.030	2.0	186511.580	2.0
812.8230	24.00	-2.17	35618.510	1.0	47917.930	2.0
812.8514	24.00	-4.28	48661.590	3.0	60960.580	4.0
812.8514	28.01	-3.71	109846.000	3.5	122144.990	2.5
812.9023	24.01	-4.34	55081.700	1.5	67379.920	1.5
812.9026	14.00	-4.05	49933.775	3.0	62231.990	2.0
812.9035	37.00	-2.64	19355.649	0.0	31657.232	0.0
812.9153	7.00	-1.26	97805.810	1.5	110103.034	1.5
812.9175	27.00	-4.14	23152.570	3.5	35450.560	3.5
812.9241	24.00	-3.93	33060.740	3.0	45358.630	4.0
812.9241	28.01	-4.18	118923.200	3.5	131221.090	3.5
812.9276	9.00	-.56	116040.863	1.5	128338.720	.5
812.9326	26.00	-4.37	22249.430	3.0	34547.192	2.0
812.9334	23.00	-4.06	24727.850	2.5	37025.600	3.5
812.9541	17.00	-1.20	84648.100	2.5	96945.536	2.5
812.9646	22.00	-1.95	29661.232	1.0	41958.510	2.0
813.0048	28.01	-.43	121561.060	.5	133857.730	.5
813.0074	9.01	-2.10	257267.300	1.0	269563.930	2.0
813.0193	16.01	-2.20	140318.800	3.5	152615.250	4.5
813.0240	10.00	-4.96	159534.620	1.0	171831.000	0.0
813.0345	24.00	-3.11	42908.570	4.0	55204.790	3.0
813.0438	10.00	-2.78	159534.620	1.0	171830.700	1.0
813.1218	27.00	-4.78	42988.120	3.5	55283.020	2.5
813.1344	28.01	-2.09	109846.000	3.5	122140.710	4.5
813.1426	22.00	-1.75	18911.399	2.0	31205.985	3.0
813.1615	27.00	-4.02	40621.620	1.5	52915.920	.5
813.1655	28.01	-3.04	122086.580	3.5	134380.820	3.5
813.1886	24.00	-2.72	37244.170	4.0	49538.060	5.0
813.2025	10.00	-2.37	159534.620	1.0	171828.300	2.0
813.2585	28.00	-4.99	44565.100	3.0	56857.933	4.0
813.2746	16.01	-1.07	151959.410	1.5	164252.000	1.5
813.2799	18.01	-2.24	183797.360	2.5	196089.670	2.5
813.2820	46.00	-1.02	24923.174	0.0	37219.032	0.0
813.2938	15.01	-3.18	129666.100	2.0	141958.400	1.0
813.2990	40.00	-1.13	5484.711	0.0	17780.312	0.0
813.2997	23.00	-4.46	25130.960	2.5	37423.170	1.5
813.3097	20.01	-2.02	78034.390	3.5	90326.450	3.5
813.3097	20.01	-.47	78034.390	3.5	90326.450	4.5
813.3097	20.01	-.58	78034.390	2.5	90326.450	3.5
813.3229	24.00	-4.44	28679.430	1.0	40971.290	2.0
813.3373	22.00	-2.47	17369.590	1.0	29661.232	1.0
813.3540	25.02	-3.35	219195.950	4.5	231487.340	4.5
813.3646	28.01	-1.76	109269.830	1.5	121561.060	.5
813.3818	14.00	-3.74	49850.830	2.0	62141.800	1.0
813.3964	20.02	.19	359156.830	1.0	371447.580	1.0
813.4136	24.00	-4.90	35398.020	4.0	47688.510	4.0
813.4553	27.00	-2.70	41968.890	2.5	54258.750	2.5
813.4897	24.00	-4.36	42515.350	2.0	54804.690	1.0
813.4916	18.00	-2.08	108722.668	0.0	121011.979	1.0
813.5049	24.00	-3.95	28682.160	2.0	40971.290	2.0
813.5188	28.01	-.39	121325.090	2.5	133613.990	1.5
813.5200	41.00	-1.76	11130.738	0.0	23422.999	0.0
813.5235	26.00	-4.89	45608.341	6.0	57897.170	5.0
813.5254	26.01	-6.91	26170.190	5.5	38456.990	4.5
813.5665	15.00	-2.59	67113.820	2.5	79402.000	2.5
813.5883	18.01	-2.35	202544.320	2.5	214832.170	3.5
813.5969	28.01	-4.99	118442.810	1.5	130730.530	2.5
813.6049	15.00	-3.89	66834.500	1.5	79122.100	1.5
813.6062	10.00	-3.06	159534.620	1.0	171822.200	1.0
813.6128	28.01	-3.55	122812.970	3.5	135100.450	3.5
813.6200	45.00	-1.71	14679.669	0.0	26970.419	0.0
813.6353	26.01	-3.35	87536.900	3.5	99824.040	2.5
813.6367	28.01	-4.67	121240.900	3.5	133528.020	3.5
813.6469	22.00	-3.38	27498.975	3.0	39765.940	4.0
813.6777	23.00	-.66	24830.180	1.5	37116.680	.5
813.7062	27.00	-.50	41225.760	4.5	53511.830	5.5
813.7210	92.00	-1.22	10243.505	0.0	22532.729	0.0
813.7877	24.00	-2.98	35501.260	3.0	47766.100	2.0
813.8115	15.00	-1.22	65450.020	1.5	77734.500	2.5
813.8234	29.01	-4.61	139119.500	3.0	151403.800	2.0
813.8287	18.02	-3.97	240291.660	2.0	252575.860	1.0
813.8360	23.00	-4.33	30120.780	2.5	42404.890	3.5
813.8390	22.00	-2.27	29768.655	2.0	42052.720	3.0
813.8460	90.00	-2.09	5484.711	0.0	17772.046	0.0
813.8632	26.01	-3.68	72043.210	1.5	84326.910	1.5
813.9109	18.01	-1.05	189437.690	.5	201720.670	1.5
813.9142	15.00	-1.49	65373.470	.5	77656.400	.5
813.9162	29.01	-3.35	139119.500	3.0	151402.400	3.0
813.9212	12.00	-2.10	47844.414	1.0	60127.239	2.0
813.9228	9.01	-4.23	257290.840	2.0	269573.640	1.0
813.9672	25.00	-.77	50012.530	2.5	62294.660	3.5
813.9697	20.00	-1.31	36547.688	0.0	48829.780	1.0
813.9712	21.00	-2.13	24866.180	1.5	37146.250	1.5
813.9871	9.02	-4.06	430012.480	1.5	442294.310	1.5
814.0189	24.00	-2.06	36558.550	2.0	48839.900	1.0
814.0421	27.00	-3.64	20500.710	1.5	32781.710	2.5
814.0428	28.01	.48	91800.050	4.5	104081.040	4.5
814.0563	14.00	-1.93	48020.074	1.0	60300.660	2.0
814.0666	27.00	-1.86	42988.120	3.5	55266.750	3.5
814.0952	17.01	-4.81	128729.800	3.0	141010.000	2.0
814.1256	24.00	-3.68	42538.810	3.0	54816.550	2.0
814.1581	28.01	-2.12	108763.320	.5	121042.570	1.5
814.1593	22.00	-2.48	18911.399	2.0	31190.631	2.0
814.1727	18.01	-2.09	183797.360	2.5	196076.390	1.5
814.1734	28.01	-3.96	118939.530	5.5	131216.550	6.5
814.1787	28.01	-3.20	121456.320	1.5	133735.260	2.5
814.1933	28.01	.44	93390.060	2.5	105668.780	2.5
814.2244	24.00	-4.31	23933.900	4.0	36212.150	4.0
814.2589	23.00	-4.49	14910.040	3.5	27187.770	2.5
814.2824	14.00	-2.24	49028.294	0.0	61305.670	1.0
814.3007	29.01	-4.33	139142.100	2.0	151419.200	3.0
814.3160	90.01	-1.66	14276.381	0.0	26556.626	0.0
814.3267	22.00	-3.47	27025.652	4.0	39302.360	4.0
814.3272	13.01	-1.97	135012.100	1.0	147286.600	0.0
814.3485	10.01	-1.02	279218.660	2.5	291495.040	2.5
814.3496	18.00	-3.09	107289.747	2.0	119566.110	3.0
814.3677	27.00	-2.68	41982.660	1.5	54258.750	2.5
814.3686	12.00	-2.58	47851.162	2.0	60127.239	2.0
814.3885	26.00	-2.71	45726.104	5.0	58001.860	6.0
814.4035	24.00	-4.44	37244.170	4.0	49519.720	3.0
814.4049	25.00	-3.56	37789.930	2.5	50065.460	3.5
814.4380	20.00	-1.43	36554.749	1.0	48829.760	1.0
814.4380	20.00	-1.08	36554.749	1.0	48829.780	2.0
814.4517	26.00	-4.59	48531.896	3.0	60806.720	3.0
814.4526	23.00	-2.22	8412.940	.5	20687.750	1.5
814.4858	28.01	-3.67	121699.020	1.5	133973.330	2.5
814.4905	28.01	-4.84	110573.360	2.5	122847.600	3.5
814.5104	25.01	-2.80	67295.160	4.0	79569.100	5.0
814.5197	13.01	-1.94	135009.000	0.0	147282.800	1.0
814.5270	24.00	-2.40	48507.560	1.0	60781.250	2.0
814.5402	25.00	-3.33	50359.280	3.5	62632.770	3.5
814.5667	9.01	-4.46	257290.840	2.0	269563.930	2.0
814.5681	28.01	-4.93	92373.450	2.5	104646.520	3.5
814.5978	22.00	-3.67	18911.399	2.0	31184.021	1.0
814.5994	14.00	-2.93	51612.012	0.0	63884.610	1.0
814.6046	28.01	-3.48	119656.250	3.5	131928.770	4.5
814.6127	22.00	-1.94	29912.262	3.0	42184.660	4.0
814.6150	64.00	-1.43	7178.519	0.0	19454.257	0.0
814.6258	8.01	-2.77	233544.090	1.5	245816.290	1.5
814.6398	24.01	-3.72	53271.070	2.5	65543.060	3.5
814.6661	22.00	-1.93	25388.334	4.0	37659.927	3.0
814.6707	26.00	-3.71	26406.490	1.0	38678.015	2.0
814.6835	17.00	-2.34	84988.480	1.5	97259.811	1.5
814.6949	24.00	-3.36	37205.880	3.0	49477.040	2.0
814.7148	21.00	-2.76	25584.640	2.5	37855.500	2.5
814.7254	13.01	-2.54	135012.100	1.0	147282.800	1.0
814.7254	13.01	-2.06	135012.100	1.0	147282.600	2.0
814.7679	29.01	-2.83	135863.930	1.0	148135.990	2.0
814.7759	22.00	-2.94	29914.720	3.0	42184.660	4.0
814.8729	10.00	-4.87	159534.620	1.0	171803.100	2.0
814.9021	26.01	-4.88	118442.810	1.5	130710.650	.5
814.9094	24.00	-4.29	23305.010	2.0	35572.940	2.0
814.9320	27.00	-7.69	13795.520	2.5	26063.110	1.5
814.9433	28.01	-2.08	121800.340	1.5	134067.760	1.5
814.9558	26.00	-2.43	36975.640	3.0	49242.872	3.0
814.9685	26.00	-2.26	36975.640	3.0	49242.680	2.0
814.9692	28.01	-3.87	120044.950	4.5	132311.980	4.5
814.9845	30.02	-4.30	221343.600	2.0	233610.400	2.0
814.9984	10.01	.13	316882.210	2.5	329146.800	1.5
815.0070	10.01	-1.00	316882.210	2.5	329146.670	2.5
815.0077	9.02	.48	430012.480	1.5	442278.930	2.5
815.0157	27.00	-1.78	23184.230	2.5	35450.560	3.5
815.0555	14.00	-1.95	45276.186	1.0	57541.918	1.0
815.0649	18.01	-1.68	192712.000	1.5	204977.590	2.5
815.0662	7.00	-1.73	97770.150	.5	110035.720	.5
815.0896	26.00	-4.28	42859.756	2.0	55124.974	3.0
815.0908	28.01	-2.36	121180.550	5.5	133445.750	4.5
815.1049	26.00	-3.95	34636.820	2.0	46901.808	1.0
815.1154	21.00	-2.39	32751.540	3.5	45016.370	3.5
815.1260	20.00	-4.06	35818.713	3.0	46083.383	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
815.1554	10.00	-3.05	158795.992	1.0	171060.220	2.0
815.1772	13.01	-2.06	135018.900	2.0	147282.600	2.0
815.1772	13.01	-1.31	135018.900	2.0	147282.600	3.0
815.1772	13.01	-3.24	135018.900	2.0	147282.600	1.0
815.1812	26.02	-3.10	186998.600	4.0	199262.440	3.0
815.1867	18.00	-3.13	107496.463	1.0	119760.220	1.0
815.1918	10.00	-4.61	159534.620	1.0	171798.300	1.0
815.1971	27.00	-2.42	32841.990	4.5	45105.590	3.5
815.2224	25.01	-3.31	67295.160	4.0	79558.380	4.0
815.2450	12.00	-2.92	47841.119	0.0	60104.000	1.0
815.2580	40.00	-2.47	5162.081	0.0	17428.137	0.0
815.2769	24.00	-4.59	52677.860	7.0	64940.280	7.0
815.3096	10.00	-2.67	158795.992	1.0	171057.900	1.0
815.3354	9.02	.67	430374.750	2.5	442636.270	3.5
815.3383	16.00	-4.00	64888.014	1.0	77149.490	1.0
815.3447	10.01	-1.08	305566.940	1.5	317828.320	.5
815.3450	42.00	-1.21	25568.434	0.0	37833.181	0.0
815.3467	23.00	-4.71	24727.850	2.5	36989.200	2.5
815.3710	92.00	-.88	13066.518	0.0	25330.874	0.0
815.3726	28.01	-4.82	88128.560	2.5	100389.520	2.5
815.3746	24.00	-4.34	48558.570	2.0	60819.500	3.0
815.3773	24.00	-3.48	37205.880	3.0	49466.770	2.0
815.3780	29.01	-1.91	134675.600	2.0	146936.480	2.0
815.3986	20.02	-.42	346896.260	2.0	359156.830	1.0
815.4165	29.01	-3.50	139142.100	2.0	151402.400	3.0
815.4199	27.00	-1.32	41528.530	5.5	53788.780	4.5
815.4611	23.00	-.30	24898.730	2.5	37158.360	1.5
815.4640	12.00	-2.45	47844.414	1.0	60104.000	1.0
815.4658	24.00	-4.56	45113.220	3.0	57372.780	4.0
815.4671	25.00	-2.55	50373.230	2.5	62632.770	3.5
815.4869	14.00	-2.77	49188.617	2.0	61447.860	2.0
815.4994	16.00	-4.48	64890.436	0.0	77149.490	1.0
815.5003	24.00	-2.25	35618.510	1.0	47877.550	1.0
815.5429	25.00	-3.66	33825.490	2.5	46083.890	1.5
815.5609	9.01	-2.11	257290.840	2.0	269548.970	3.0
815.5636	6.00	-3.05	60352.630	1.0	72610.720	2.0
815.5790	16.00	-3.78	64891.632	2.0	77149.490	1.0
815.6308	10.00	-4.35	159534.620	1.0	171791.700	2.0
815.6804	22.00	-1.23	26892.926	3.0	39149.260	2.0
815.6953	10.01	-1.85	290583.170	1.5	302839.280	2.5
815.7159	29.01	-4.03	139119.500	3.0	151375.300	2.0
815.7419	28.01	-3.90	121190.340	4.5	133445.750	4.5
815.7612	25.01	-4.07	67295.160	4.0	79550.280	3.0
815.7917	20.00	-2.60	36575.119	2.0	48829.780	1.0
815.7917	20.00	-1.60	36575.119	2.0	48829.780	2.0
815.7917	20.00	-.68	36575.119	2.0	48829.780	3.0
815.9132	12.00	-2.22	47851.162	2.0	60104.000	1.0
815.9217	28.01	-1.80	121800.340	1.5	134053.050	2.5
815.9396	23.00	-5.32	11100.650	4.5	23353.090	3.5
815.9506	9.00	-1.98	105056.282	.5	117308.558	1.5
815.9530	26.01	-3.62	87571.800	2.5	99824.040	2.5
815.9750	90.00	-1.95	6291.287	0.0	18546.564	0.0
815.9956	13.01	-2.23	134181.200	4.0	146432.800	4.0
815.9956	13.01	-2.37	134181.200	4.0	146432.800	4.0
815.9956	13.01	-.61	134181.200	4.0	146432.800	5.0
815.9956	13.01	-4.80	134181.200	4.0	146432.800	5.0
815.9956	13.01	-3.70	134181.200	4.0	146432.800	5.0
815.9956	13.01	-.60	134181.200	4.0	146432.800	5.0
815.9956	13.01	-3.99	134181.200	5.0	146432.800	4.0
815.9956	13.01	-2.24	134181.200	5.0	146432.800	5.0
815.9956	13.01	-2.35	134181.200	5.0	146432.800	5.0
815.9956	13.01	-.52	134181.200	5.0	146432.800	6.0
815.9956	13.01	-.71	134181.200	3.0	146432.800	4.0
816.0009	26.00	-2.67	36975.640	3.0	49227.160	3.0
816.0049	10.01	.28	316897.210	3.5	329148.670	2.5
816.0202	26.01	-3.96	72619.610	2.5	84870.840	2.5
816.0302	26.02	-2.88	186597.300	6.0	198848.380	7.0
816.0622	27.00	-4.86	33674.380	2.5	45924.980	3.5
816.0828	21.00	-1.70	32659.210	1.5	44909.500	2.5
816.1048	23.00	-1.68	8578.520	2.5	20828.480	2.5
816.1121	9.01	-2.38	277892.610	3.0	290142.460	2.0
816.1475	25.00	-4.46	44978.980	1.5	57228.300	.5
816.1526	17.00	-3.93	84988.480	1.5	97237.723	2.5
816.1821	15.00	-2.06	65585.000	2.5	77833.600	1.5
816.1900	62.01	-1.82	10082.190	0.0	22334.239	0.0
816.1934	10.01	-2.04	290583.170	1.5	302831.800	.5
816.2162	14.00	-1.33	45293.629	2.0	57541.918	1.0
816.2314	24.00	-2.77	37205.880	3.0	49453.940	4.0
816.2341	24.00	-4.72	45113.220	3.0	57361.240	3.0
816.2374	20.00	-.36	35835.413	2.0	48083.383	2.0
816.2452	26.00	-4.38	38175.332	3.0	50423.185	4.0
816.2556	10.00	-2.49	158795.992	1.0	171043.690	2.0
816.3021	17.01	-2.17	141010.000	2.0	153257.000	2.0
816.3179	22.00	-4.85	22081.198	2.0	34327.960	1.0
816.3527	28.01	.45	115085.360	3.5	127331.600	2.5
816.3654	10.01	-.77	305582.270	.5	317828.320	.5
816.3707	28.01	.35	106133.140	1.5	118379.110	2.5
816.4114	24.00	-4.59	33113.270	4.0	45358.630	4.0
816.4121	27.00	-1.76	42269.320	4.5	54514.670	3.5
816.4308	14.00	-2.68	49060.601	1.0	61305.670	1.0
816.5394	29.01	-3.49	116326.160	3.0	128569.600	2.0
816.5401	18.01	-2.50	143107.600	2.5	155351.030	1.5
816.5521	24.00	-2.49	48661.590	3.0	60904.840	3.0
816.5554	23.00	-2.88	24915.160	1.5	37158.360	1.5
816.5700	74.00	-1.39	28068.817	0.0	40315.165	0.0
816.5794	23.00	-3.56	30120.780	2.5	42363.620	3.5
816.5948	24.00	-2.39	39158.630	4.0	51401.240	5.0
816.6335	18.00	-2.80	112138.980	2.0	124381.010	2.0
816.6481	23.00	-4.89	19026.340	2.5	31268.150	3.5
816.6488	20.02	0.00	350779.470	3.0	363021.270	2.0
816.6659	17.00	-3.27	84688.637	.5	96930.181	.5
816.6715	24.00	-2.34	35572.940	2.0	47814.400	3.0
816.6775	26.00	-4.73	43137.472	3.0	55378.842	2.0
816.7082	24.00	-3.66	33113.270	4.0	45354.180	5.0
816.7302	28.01	-4.71	109846.000	3.5	122086.580	3.5
816.7604	22.00	-3.38	29661.232	1.0	41901.360	1.0
816.7616	28.01	-2.22	122140.710	4.5	134380.820	3.5
816.7849	27.00	-.67	41918.410	3.5	54158.170	4.5
816.7909	9.01	-3.09	277902.790	2.0	290142.460	2.0
816.8009	24.00	-2.06	33934.880	3.0	46174.400	3.0
816.8123	23.00	-3.92	19078.150	3.5	31317.500	4.5
816.8172	26.00	-4.03	43933.426	2.0	56174.704	3.0
816.8290	25.00	-3.91	38120.180	4.5	50359.280	3.5
816.8316	15.00	-4.35	67971.140	.5	80210.200	.5
816.8523	24.00	-3.04	33935.650	2.0	46174.400	3.0
816.8864	23.00	-1.21	26004.220	2.5	38242.460	3.5
816.9064	28.01	-4.24	118563.390	3.5	130801.330	4.5
816.9264	18.01	-4.20	202429.840	3.5	214667.480	2.5
816.9424	16.00	-3.79	112138.980	2.0	124376.360	1.0
816.9438	22.00	-3.12	17423.853	2.0	29661.232	1.0
816.9638	23.00	-3.51	24838.560	3.5	37075.640	4.5
816.9785	24.00	-2.36	35640.690	0.0	47877.550	1.0
816.9810	90.00	-2.06	7178.519	0.0	19418.706	0.0
817.0136	17.00	-1.88	85244.330	.5	97480.664	1.5
817.0539	28.00	-2.30	44475.158	2.0	56710.889	2.0
817.1285	14.00	-2.45	49188.617	2.0	61423.230	3.0
817.1294	26.00	-3.76	40534.180	3.0	52768.780	4.0
817.1321	23.00	-.05	24992.880	3.5	37227.440	2.5
817.1528	28.01	-4.79	109846.000	3.5	122080.250	2.5
817.1821	10.01	-3.14	290583.170	1.5	302816.980	1.5
817.1922	15.00	-3.48	67971.140	.5	80204.800	1.5
817.1988	18.00	-1.50	111818.090	1.0	124051.650	2.0
817.2129	28.01	-4.57	121294.670	4.5	133528.020	3.5
817.2209	28.01	.18	107082.210	2.5	119315.440	2.5
817.2229	29.01	-3.63	139142.100	2.0	151375.300	2.0
817.2229	8.02	.34	358667.400	1.0	370900.600	2.0
817.2309	24.00	-1.44	42438.820	2.0	54671.900	1.0
817.2443	22.00	-3.20	36132.210	4.0	48365.090	3.0
817.2537	29.01	-3.53	116326.160	3.0	128558.900	3.0
817.2557	26.01	-2.18	87340.400	5.5	99573.110	4.5
817.3091	24.00	-2.60	48824.500	4.0	61056.410	4.0
817.3211	26.01	-4.19	49101.090	.5	61332.820	1.5
817.3465	18.01	-4.03	173393.380	2.5	185624.730	3.5
817.3890	72.00	-1.08	20809.640	0.0	33043.717	0.0
817.4300	92.00	-1.59	4194.191	0.0	16427.654	0.0
817.4428	7.00	-2.03	97805.810	1.5	110035.720	.5
817.4842	28.01	-3.51	104503.220	2.5	116732.510	2.5
817.5404	22.00	-3.17	17540.205	3.0	29768.655	2.0
817.5577	28.01	-.81	121385.800	1.5	133613.990	1.5
817.5850	92.00	-3.00	0.000	0.0	12231.144	0.0
817.6072	28.01	-4.95	102742.740	1.5	114970.190	.5
817.6353	24.00	-3.95	28679.430	1.0	40906.460	1.0
817.6507	25.00	-1.34	45259.170	1.5	57485.970	2.5
817.7186	26.00	-2.53	48531.896	3.0	60757.680	4.0
817.7323	15.00	-3.93	67113.820	2.5	79339.400	1.5
817.7905	26.01	-4.52	66012.830	4.5	78237.540	3.5
817.8072	28.01	-3.09	99559.330	2.5	111783.790	3.5
817.8179	28.01	-4.66	122047.290	3.5	134271.590	4.5
817.8193	24.00	-4.37	28682.180	2.0	40906.460	1.0
817.8320	26.02	-3.35	186597.300	6.0	198821.390	6.0
817.8574	6.01	-3.00	233544.090	1.5	245767.800	.5
817.8854	18.00	-.98	111818.090	1.0	124041.380	2.0
817.8868	26.01	-4.20	72043.210	1.5	84266.480	2.5
817.8975	18.00	-1.24	111818.090	1.0	124041.200	1.0
817.9008	16.01	-2.02	152094.340	2.5	164317.400	1.5
817.9016	26.00	-1.92	34782.406	5.0	47005.455	5.0
817.9049	29.01	-2.27	135910.990	2.0	148133.990	3.0
817.9049	29.01	-3.46	135910.990	2.0	148133.990	2.0
817.9072	22.00	-2.52	27418.015	2.0	39640.980	3.0
817.9116	29.01	-4.26	118163.500	2.0	130386.400	2.0
817.9173	26.00	-2.78	48531.896	3.0	60754.710	4.0
817.9263	24.00	-2.53	48558.570	2.0	60781.250	2.0
817.9336	9.00	-.56	115917.909	2.5	128140.480	2.5
817.9624	26.01	-4.38	87601.900	1.5	99824.040	2.5
818.0220	23.00	-4.02	20767.570	3.5	32988.820	3.5
818.0307	25.00	-4.84	38120.180	4.5	50341.300	4.5
818.0368	22.00	-1.26	25438.898	2.0	37659.927	3.0
818.0393	22.00	-1.22	25317.813	1.0	37538.804	2.0
818.0675	23.00	-2.90	26021.890	3.5	38242.460	3.5
818.0762	24.00	-4.26	37233.500	5.0	49453.940	4.0
818.0930	25.00	-4.32	50863.050	1.5	63083.240	1.5
818.1037	15.00	-4.08	68088.270	1.5	80308.300	2.5
818.1057	13.01	-2.30	135009.000	0.0	147229.000	1.0
818.1234	22.00	-2.14	29768.655	2.0	41986.390	3.0
818.1365	21.00	-1.49	24866.180	1.5	37085.720	.5
818.1773	26.01	-3.98	72651.910	3.5	84870.840	2.5
818.1856	28.00	-4.19	43654.974	3.0	55873.780	2.0
818.1921	20.02	-2.56	350900.040	2.0	363116.750	3.0
818.1927	24.00	-4.10	37883.340	2.0	50102.040	3.0
818.2563	18.00	-4.18	112138.980	2.0	124356.730	2.0
818.2677	6.00	-2.20	60393.140	2.0	72610.720	2.0
818.2731	20.00	-2.67	35818.713	3.0	48036.212	3.0
818.2798	26.01	-2.64	87470.800	4.5	99686.200	3.5
818.2811	28.01	-.78	122441.220	4.5	134658.600	4.5
818.2898	28.01	-4.35	103653.030	3.5	115870.280	2.5
818.3133	13.01	-2.30	135012.100	1.0	147229.000	1.0
818.3255	11.00	.23	16956.172	.5	29172.869	1.5
818.3722	28.01	.44	94067.140	1.5	106283.160	2.5
818.4131	24.00	-3.69	33040.100	2.0	45255.510	3.0
818.4138	29.01	-2.11	134359.900	1.0	146575.300	2.0
818.4398	20.00	-1.43	36547.688	0.0	48762.700	1.0
818.4506	10.01	-.70	305566.940	1.5	317781.790	1.5
818.4553	28.01	-4.57	122047.290	3.5	134262.070	3.5
818.4674	17.01	-1.68	137804.400	1.0	150019.000	0.0
818.4729	20.00	-1.80	35818.713	3.0	48033.230	2.0
818.4741	29.01	-3.96	135931.270	6.0	148145.770	6.0
818.4754	10.01	-.83	305566.940	1.5	317781.420	2.5
818.4862	7.00	-.21	83317.800	1.5	95532.120	2.5
818.4935	27.00	-7.92	14036.280	1.5	26250.490	.5
818.4995	26.02	-2.10	186998.600	4.0	199212.720	4.0
818.5356	22.00	-2.17	29971.078	4.0	42184.660	4.0
818.5411	27.00	-3.25	21920.090	4.5	34133.590	3.5
818.5411	7.01	-3.52	202170.630	1.0	214384.130	2.0
818.5513	10.00	-3.41	158795.992	1.0	171009.340	1.0
818.5639	24.00	-2.35	35572.940	2.0	47786.100	2.0
818.5739	23.00	-4.46	24770.620	.5	36983.630	1.5
818.5900	64.00	-1.97	7904.437	0.0	20120.565	0.0
818.5974	21.00	-2.26	32696.840	2.5	44909.500	2.5

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WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
818.6074	26.01	-3.16	72650.630	4.5	84863.140	5.5
818.6671	29.01	-4.04	135934.150	5.0	148145.770	5.0
818.6718	23.00	-2.03	8476.200	1.5	20687.750	1.5
818.6755	26.00	-1.35	39625.784	4.0	51837.279	3.0
818.6932	15.00	-1.57	68088.270	1.5	80299.500	1.5
818.6972	9.02	-3.11	441158.600	1.5	453369.770	1.5
818.7028	26.00	-2.66	47960.973	4.0	60172.060	4.0
818.7281	29.01	-2.87	134675.600	2.0	146886.310	1.0
818.7329	22.00	-3.56	29661.232	1.0	41871.870	2.0
818.7362	23.00	.15	25111.500	4.5	37322.090	3.5
818.7537	22.00	-4.62	29661.232	1.0	41871.560	0.0
818.7623	28.01	-3.76	122084.790	1.5	134294.990	2.5
818.7690	13.01	-1.60	135018.900	2.0	147229.000	1.0
818.7717	18.00	-3.79	112138.980	2.0	124349.040	3.0
818.7911	24.00	-1.89	37244.170	4.0	49453.940	4.0
818.8012	7.00	-.24	83284.040	.5	95493.660	1.5
818.8301	17.00	-3.29	87979.490	3.5	100188.680	4.5
818.8589	28.01	-4.84	122047.290	3.5	134256.050	2.5
818.8612	22.00	-3.59	36000.144	4.0	48208.870	3.0
818.8616	20.02	-.67	346732.190	1.0	358940.910	0.0
818.8770	40.00	-1.59	14276.381	0.0	26488.227	0.0
818.9132	20.00	-1.56	36554.749	1.0	48762.700	1.0
818.9132	20.00	-1.20	36554.749	1.0	48762.700	2.0
818.9266	27.00	-1.49	42269.320	4.5	54477.070	3.5
818.9468	27.00	-4.54	43199.650	2.5	55407.100	1.5
818.9669	25.00	-4.56	51638.170	2.5	63845.320	1.5
819.0018	26.01	-4.37	60445.280	2.5	72651.910	3.5
819.0185	15.00	-1.49	65450.020	1.5	77656.400	.5
819.0259	16.01	-2.71	148842.370	2.5	161046.640	1.5
819.0333	24.00	-3.14	35934.020	6.0	48140.180	7.0
819.0467	14.02	.77	230267.700	2.0	242473.660	3.0
819.0483	17.00	-2.17	87979.490	3.5	100185.426	2.5
819.0675	14.02	.38	230268.620	3.0	242474.270	4.0
819.0843	28.01	-3.51	122175.420	2.5	134380.820	3.5
819.0950	14.02	.70	230268.620	3.0	242473.860	4.0
819.1085	14.02	-.31	230268.620	3.0	242473.660	3.0
819.1212	28.01	-3.63	121240.900	3.5	133445.750	4.5
819.1239	9.00	-.71	115917.909	2.5	128122.719	1.5
819.1374	26.00	-8.67	11976.239	4.0	24180.648	3.0
819.1454	23.00	-8.55	9636.960	1.5	21841.450	2.5
819.1682	14.02	1.00	230270.660	4.0	242474.810	5.0
819.2045	14.02	-.64	230270.660	4.0	242474.270	4.0
819.2159	18.01	-3.57	147503.020	1.5	159706.460	.5
819.2185	28.01	-4.91	118828.610	2.5	131032.010	2.5
819.2232	29.01	.02	123556.640	2.0	135759.970	2.0
819.2253	27.00	-3.60	36875.130	1.5	49078.430	1.5
819.2320	29.01	-.46	121524.670	3.0	133727.870	2.0
819.2320	14.02	-.54	230270.660	4.0	242473.660	4.0
819.2454	14.02	-2.09	230270.660	4.0	242473.660	3.0
819.2600	42.00	-1.78	23390.681	0.0	35596.818	0.0
819.2629	19.00	-2.96	21534.700	2.5	33737.440	1.5
819.2662	23.00	-6.08	13801.530	1.5	26004.220	2.5
819.2696	23.00	-4.85	19026.340	2.5	31228.980	2.5
819.2716	24.00	-3.37	33906.650	1.0	46109.260	2.0
819.2877	9.02	-2.82	441167.400	.5	453369.770	1.5
819.2991	27.00	-3.20	33674.380	2.5	45876.580	2.5
819.3033	26.00	-3.94	38678.015	2.0	50880.152	1.0
819.3213	28.01	-4.33	118563.390	3.5	130765.260	3.5
819.3220	15.00	-1.99	67971.140	.5	80173.000	.5
819.3448	23.00	-2.33	24915.160	1.5	37116.680	.5
819.3629	45.00	.11	32101.693	0.0	44306.297	0.0
819.3884	28.01	-2.73	122441.220	4.5	134642.090	3.5
819.3932	20.00	-4.75	35835.413	2.0	48036.212	3.0
819.3971	14.02	.28	242473.660	3.0	254674.400	4.0
819.4019	24.00	-4.36	35813.730	3.0	48014.400	4.0
819.4099	29.01	-4.57	136442.050	3.0	148642.600	2.0
819.4106	14.02	-1.27	242473.860	4.0	254674.400	4.0
819.4106	14.02	.38	242473.860	4.0	254674.400	5.0
819.4106	14.02	-3.27	242473.860	4.0	254674.400	5.0
819.4173	19.00	-3.92	21537.000	1.5	33737.440	1.5
819.4240	18.01	-1.03	202467.140	1.5	214667.480	2.5
819.4381	14.02	-4.18	242474.270	4.0	254674.400	5.0
819.4381	14.02	.38	242474.270	4.0	254674.400	5.0
819.4381	14.02	-1.37	242474.270	4.0	254674.400	4.0
819.4422	17.00	-1.03	72488.568	1.5	84688.637	.5
819.4583	27.00	-3.74	41528.530	5.5	53728.360	6.5
819.4677	23.00	-2.76	20789.130	2.5	32988.820	3.5
819.4683	28.01	-3.49	102742.740	1.5	114942.420	1.5
819.4702	26.00	-4.17	33765.291	2.0	45964.944	2.0
819.4730	40.00	-1.49	10808.108	0.0	23011.073	0.0
819.4737	19.00	-3.22	21537.000	1.5	33736.600	.5
819.4744	14.02	-1.26	242474.810	5.0	254674.400	5.0
819.4744	14.02	-1.37	242474.810	5.0	254674.400	5.0
819.4744	14.02	.46	242474.810	5.0	254674.400	6.0
819.4744	14.02	-3.01	242474.810	5.0	254674.400	4.0
819.4790	11.00	-.47	16973.368	1.5	29172.889	1.5
819.4791	10.01	-1.99	305582.270	.5	317781.790	1.5
819.4824	11.00	.49	16973.368	1.5	29172.839	2.5
819.4898	24.00	-3.91	35572.940	2.0	47772.300	1.0
819.5140	13.01	-3.62	121480.300	3.0	133679.300	3.0
819.5335	20.02	.23	347344.370	5.0	359543.080	4.0
819.5451	14.00	-2.36	48102.323	2.0	60300.860	2.0
819.5493	22.00	-2.27	29986.185	3.0	42184.660	4.0
819.5500	62.01	-1.55	13389.148	0.0	25590.966	0.0
819.5543	13.01	-2.71	121480.900	2.0	133679.300	3.0
819.5570	27.00	-7.51	14399.280	.5	26597.640	1.5
819.5935	20.00	-4.50	35835.413	2.0	48033.230	2.0
819.6570	26.00	-2.75	37046.000	4.0	49242.872	3.0
819.6706	27.00	-4.26	41528.530	5.5	53725.200	4.5
819.6988	24.00	-3.98	23305.010	2.0	35501.260	3.0
819.7028	21.00	-1.48	25564.640	2.5	37780.830	1.5
819.7044	20.00	-2.85	35835.413	2.0	48031.580	1.0
819.7069	8.01	-3.13	253791.870	1.5	265988.000	2.5
819.7317	14.00	-2.55	49399.670	1.0	61595.430	1.0
819.7599	16.01	-3.01	143623.030	1.5	155818.370	2.5
819.7627	24.00	-2.72	48488.230	0.0	60683.530	1.0
819.7733	9.00	-.94	116143.579	.5	128338.720	.5
819.7964	22.00	-2.07	29912.262	3.0	42107.060	4.0
819.7983	24.00	-3.89	33060.740	3.0	45255.510	3.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
819.8230	26.00	-3.37	36940.600	2.0	49135.003	3.0
819.8319	23.00	-3.49	24789.360	.5	36983.630	1.5
819.8420	28.01	-4.93	118563.390	3.5	130757.510	4.5
819.8500	10.03	-4.75	635866.000	.5	648060.000	1.5
819.8595	18.01	-1.84	189414.960	3.5	201608.820	3.5
819.8844	23.00	-2.23	8412.940	.5	20606.430	.5
819.8886	26.00	-.59	35767.546	4.0	47960.973	4.0
819.9052	24.00	-2.88	33113.270	4.0	45306.450	5.0
819.9577	9.01	-.91	277517.800	3.0	289710.200	2.0
819.9617	22.00	-3.68	29914.720	3.0	42107.060	4.0
819.9811	14.00	-3.22	45276.188	1.0	57468.239	2.0
820.0041	25.02	-4.67	219195.950	4.5	231367.660	3.5
820.0182	17.01	-4.70	149798.300	2.0	161989.800	1.0
820.0210	17.00	-4.33	84121.872	1.5	96313.330	1.5
820.0357	7.00	-.94	83284.040	.5	95475.280	.5
820.0431	23.00	-2.52	25130.960	2.5	37322.090	3.5
820.0545	9.02	.02	452748.540	2.5	464939.500	2.5
820.0841	17.00	-1.77	87979.490	3.5	100170.010	2.5
820.0935	22.00	-4.97	34535.040	2.0	46725.420	3.0
820.0955	17.00	-1.35	67979.490	3.5	100169.840	3.5
820.1191	23.00	-4.93	19078.150	3.5	31268.150	3.5
820.1265	24.00	-4.47	48488.230	0.0	60678.120	1.0
820.1288	22.00	-3.12	29768.655	2.0	41958.510	2.0
820.1312	9.01	-.69	277520.380	1.0	289710.200	2.0
820.1722	20.01	.32	60533.020	.5	72722.230	1.5
820.1730	40.00	-2.05	4839.451	0.0	17032.001	0.0
820.1763	29.01	-3.54	136442.050	3.0	148631.200	3.0
820.2045	9.02	-4.04	440582.120	4.5	452770.850	3.5
820.2047	22.00	-1.45	27025.652	4.0	39214.380	3.0
820.2180	9.01	.17	277517.800	3.0	289706.330	3.0
820.2254	9.01	-.11	277521.780	2.0	289710.200	2.0
820.2510	24.00	-4.20	35398.020	4.0	47586.060	5.0
820.2776	28.00	-4.21	42585.296	4.0	54772.940	3.0
820.2819	20.00	-2.73	36575.119	2.0	48762.700	1.0
820.2819	20.00	-1.72	36575.119	2.0	48762.700	2.0
820.2819	20.00	-.80	36575.119	2.0	48762.700	3.0
820.2880	29.01	-4.30	116371.410	4.0	128558.900	3.0
820.2920	14.00	-3.03	50189.389	2.0	62376.620	3.0
820.3041	24.00	-4.02	35501.260	3.0	47688.510	4.0
820.3068	23.00	.32	25253.530	5.5	37440.740	4.5
820.3183	23.00	-4.42	24838.560	3.5	37025.600	3.5
820.3379	57.00	-2.52	2984.328	0.0	15174.427	0.0
820.3394	17.00	-.83	87979.490	3.5	100166.217	3.5
820.3446	18.00	-2.20	107496.463	1.0	119683.113	2.0
820.3459	28.01	-4.09	104646.520	3.5	116833.150	4.5
820.3553	28.01	-.07	109269.830	1.5	121456.320	1.5
820.3614	27.00	-4.88	43263.570	1.5	55449.970	2.5
820.3627	28.01	-4.98	118294.170	3.5	130480.550	3.5
820.3784	17.00	-.21	87979.490	3.5	100165.636	4.5
820.3906	22.00	-4.89	36000.144	4.0	48186.110	4.0
820.4103	26.00	-7.06	7376.762	4.0	19562.435	4.0
820.4112	21.00	-1.92	32637.400	.5	44823.060	1.5
820.4462	26.01	-4.34	54063.530	.5	66248.670	.5
820.4489	24.00	-4.02	33040.100	2.0	45225.200	2.0
820.4542	9.02	-2.56	441158.600	1.5	453343.620	2.5
820.4580	72.00	-2.62	2339.068	0.0	14527.382	0.0
820.4859	9.01	-.62	277521.780	2.0	289706.330	3.0
820.4941	26.00	-5.44	7728.058	3.0	19912.486	2.0
820.6024	10.01	-.84	280268.960	2.5	292451.780	1.5
820.6305	17.00	-1.93	85917.937	.5	98100.340	.5
820.6375	17.01	-1.74	137770.100	0.0	149952.400	1.0
820.6866	18.01	-4.65	192333.430	.5	204515.000	.5
820.7143	26.00	-3.72	37046.000	4.0	49227.160	3.0
820.7215	22.00	-.89	25643.695	3.0	37824.748	4.0
820.7735	26.00	-1.02	35856.386	2.0	48036.667	2.0
820.8214	26.01	-4.85	50142.930	2.5	62322.500	3.5
820.8578	20.02	-.05	348028.130	3.0	360207.160	2.0
820.8625	27.00	-2.72	34196.210	1.5	46375.170	1.5
820.8633	9.00	-.63	116040.883	1.5	128219.830	1.5
820.8895	26.01	-4.38	60441.050	1.5	72619.610	2.5
820.8942	9.02	.18	455648.670	1.5	467827.160	1.5
820.9319	23.01	-7.98	25191.080	2.0	37369.010	2.0
820.9447	10.01	-1.10	280473.560	1.5	292651.320	1.5
820.9528	29.01	-2.21	135990.150	3.0	148167.770	4.0
820.9528	29.01	-3.64	135990.150	3.0	148167.770	3.0
820.9603	27.00	-2.31	42988.120	3.5	55165.630	2.5
820.9697	28.01	.41	92325.850	3.5	104503.220	2.5
820.9731	28.01	-4.97	101144.630	3.5	113321.950	4.5
820.9800	63.00	-.24	17260.709	0.0	29441.274	0.0
820.9835	12.00	-3.38	46403.065	2.0	58580.230	1.0
821.0128	28.01	-3.94	118294.170	3.5	130470.900	4.5
821.0182	25.00	-4.35	23549.200	2.5	35725.850	2.5
821.0200	74.00	-2.27	19115.832	0.0	31295.803	0.0
821.0216	26.01	-8.77	26932.740	.5	39109.340	.5
821.0240	56.00	-.08	17905.969	0.0	30085.681	0.0
821.0432	10.01	-3.49	294086.490	1.5	306262.770	1.5
821.0587	28.00	-2.66	42585.296	4.0	54761.346	4.0
821.0641	24.00	-2.71	48507.560	1.0	60683.530	1.0
821.0715	7.00	-.74	83317.800	1.5	95493.660	1.5
821.0749	23.00	-1.47	25930.510	1.5	38106.320	2.5
821.0809	26.01	-4.42	72352.170	3.5	84527.890	4.5
821.0938	29.01	-3.47	135958.460	1.0	148133.990	2.0
821.1551	24.00	-4.31	33906.650	1.0	46081.270	0.0
821.1558	14.00	-1.62	45293.629	2.0	57468.239	2.0
821.1713	24.00	-4.36	33934.880	3.0	46109.260	2.0
821.1747	26.01	-4.05	60445.280	2.5	72619.610	2.5
821.1909	28.01	-3.84	103653.030	3.5	115827.120	3.5
821.1936	14.02	.32	242411.700	4.0	254585.750	5.0
821.2023	14.02	.09	242410.880	2.0	254584.800	3.0
821.2037	17.00	-.36	71958.363	2.5	84132.262	2.5
821.2118	23.00	-3.99	19026.340	2.5	31200.120	1.5
821.2233	24.00	-2.51	33935.650	2.0	46109.260	2.0
821.2286	14.02	-.97	242411.270	3.0	254584.800	3.0
821.2286	14.02	-.15	242411.270	3.0	254584.800	4.0
821.2421	14.02	-.05	242411.270	3.0	254584.600	4.0
821.2422	28.01	-.50	122441.220	4.5	134614.550	5.5
821.2489	28.01	-.03	107142.210	1.5	119315.440	2.5
821.2509	9.02	-.89	452748.540	2.5	464921.740	3.5
821.2530	40.00	-1.32	5162.081	0.0	17336.597	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
821.2576	14.02	-2.77	242411.700	4.0	254584.800	3.0
821.2576	14.02	-1.33	242411.700	4.0	254584.800	4.0
821.2711	14.02	-1.23	242411.700	4.0	254584.600	4.0
821.2772	24.00	-2.80	33113.270	4.0	45286.080	4.0
821.2819	18.00	-2.82	112138.980	2.0	124311.720	1.0
821.3013	12.00	-1.89	46403.065	2.0	58575.518	2.0
821.3013	12.00	-.53	46403.065	2.0	58575.518	3.0
821.3034	12.00	-2.66	46403.065	2.0	58575.487	3.0
821.3042	10.01	-3.79	291801.880	1.5	303974.290	1.5
821.3069	23.00	-4.33	19145.130	5.5	31317.500	4.5
821.3421	22.00	-2.53	27355.042	1.0	39526.890	2.0
821.3809	22.00	-1.59	27614.667	4.0	39785.940	4.0
821.3987	12.01	-.27	80619.500	.5	92790.510	.5
821.4061	29.01	-4.27	116388.000	2.0	128558.900	3.0
821.4272	28.00	-2.15	30619.440	2.0	42790.027	2.0
821.4372	24.00	-2.84	33906.650	1.0	46077.090	1.0
821.4473	24.00	-1.63	42648.260	3.0	54818.550	2.0
821.4568	10.01	-1.35	279324.890	1.5	291495.040	2.5
821.4723	9.00	.03	115917.909	2.5	128087.829	2.5
821.4736	28.01	-3.48	122084.790	1.5	134254.690	1.5
821.4744	14.00	-2.49	50499.838	2.0	62669.727	2.0
821.4959	24.00	-4.74	35618.510	1.0	47788.080	0.0
821.5124	14.00	-1.53	50499.838	2.0	62669.164	3.0
821.5256	25.01	-4.59	55696.500	4.0	67865.630	4.0
821.5256	8.01	-1.39	253791.870	1.5	265961.000	2.5
821.5580	9.02	-1.27	452770.850	3.5	464939.500	2.5
821.5702	26.01	-3.33	50076.100	1.5	62244.570	1.5
821.6029	14.00	-1.44	50499.838	2.0	62667.623	3.0
821.6126	28.00	-3.88	45418.858	2.0	57586.700	2.0
821.6296	24.00	-3.32	35618.510	1.0	47786.100	2.0
821.6329	28.01	-4.67	118774.760	.5	130942.300	1.5
821.6336	7.00	.16	83364.590	2.5	95532.120	2.5
821.6944	24.00	-4.43	35807.900	2.0	47974.530	3.0
821.7187	20.02	.21	328582.450	1.0	340748.720	2.0
821.7230	22.00	-3.96	7255.369	2.0	19421.576	3.0
821.7231	22.00	-1.65	25493.722	2.0	37659.927	3.0
821.7268	28.01	-.41	122441.220	4.5	134607.370	4.5
821.7707	28.01	-3.64	122812.970	3.5	134978.470	2.5
821.7815	18.01	-3.67	147227.970	.5	159393.310	1.5
821.8080	64.00	-1.63	7178.519	0.0	19346.811	0.0
821.8113	26.02	-5.00	69836.830	3.0	82001.730	2.0
821.8119	26.01	-4.19	50157.610	4.5	62322.500	3.5
821.8167	24.00	-2.10	37205.880	3.0	49370.700	3.0
821.8619	27.00	-4.82	43242.950	2.5	55407.100	1.5
821.8653	17.01	-2.54	146013.000	2.0	158177.100	1.0
821.8759	62.01	-1.63	11695.340	0.0	23862.627	0.0
821.8822	21.00	-2.36	32659.210	1.5	44823.060	1.5
821.9599	13.01	-1.70	132776.400	0.0	144939.100	1.0
822.0248	24.00	-3.92	33040.100	2.0	45201.840	1.0
822.0427	26.00	.27	34843.980	6.0	47005.455	5.0
822.0428	26.00	-4.12	36766.950	3.0	48928.423	2.0
822.0449	17.00	-2.74	72827.038	.5	84988.480	1.5
822.0593	25.01	-4.62	56883.380	1.0	69044.610	2.0
822.0741	28.01	-3.53	122047.290	3.5	134208.300	2.5
822.0793	22.00	-2.43	27480.047	3.0	39640.980	3.0
822.0883	24.00	-3.82	35813.730	3.0	47974.530	3.0
822.1058	14.00	-2.08	50189.389	2.0	62349.930	2.0
822.1451	20.02	-2.13	328588.760	3.0	340748.720	2.0
822.1715	20.02	-1.18	347383.510	4.0	359543.080	4.0
822.1741	17.00	-2.67	72488.568	1.5	84648.100	2.5
822.1798	8.00	-.61	101135.407	3.0	113294.854	2.0
822.1824	8.00	.29	101135.407	3.0	113294.816	3.0
822.1855	26.00	-2.41	36975.640	3.0	49135.003	3.0
822.1924	25.02	-2.81	121117.140	3.5	133276.400	4.5
822.1952	15.00	-3.36	65787.380	3.5	77946.600	2.5
822.1959	16.01	-3.98	115817.000	2.5	127976.210	1.5
822.1972	16.01	-.55	151959.410	1.5	164118.600	.5
822.2087	23.00	-3.35	24830.180	1.5	36989.200	2.5
822.2349	28.00	-4.68	47030.148	3.0	59188.780	3.0
822.2804	21.00	-3.76	32751.540	3.5	44909.500	2.5
822.2837	24.00	-4.35	48661.590	3.0	60819.500	3.0
822.2844	28.01	-4.75	118874.110	3.5	131032.010	2.5
822.2926	12.01	-2.03	103689.890	3.5	115847.670	3.5
822.2926	12.01	-.49	103689.890	3.5	115847.670	4.5
822.2926	12.01	-.60	103689.890	2.5	115847.670	3.5
822.3000	28.01	-1.49	121456.320	1.5	133613.990	1.5
822.3007	16.01	-.35	152094.340	2.5	164252.000	1.5
822.3128	7.00	-.24	83317.800	1.5	95475.280	.5
822.3148	16.01	-.08	152615.250	4.5	164772.700	3.5
822.3283	10.01	-1.92	290803.820	.5	302961.070	1.5
822.3500	10.01	-2.84	294086.490	1.5	306243.420	2.5
822.3757	24.00	-4.94	42515.350	2.0	54671.900	1.0
822.3987	28.01	-.30	122441.220	4.5	134597.430	5.5
822.4008	28.01	-4.13	115739.150	4.5	127895.330	3.5
822.4102	24.00	-3.10	24056.110	5.0	36212.150	4.0
822.4596	25.00	-4.96	50359.280	3.5	62514.590	2.5
822.4716	18.00	-3.96	107289.747	2.0	119444.880	2.0
822.4740	78.00	-1.46	21858.188	0.0	34016.627	0.0
822.4860	28.01	-3.60	118877.090	1.5	131032.010	2.5
822.4881	23.01	-3.59	36425.070	4.0	48579.960	3.0
822.4948	16.01	-1.78	152304.710	3.5	164459.500	2.5
822.5138	26.02	-4.77	189011.840	4.0	201166.350	3.0
822.5138	28.01	-4.51	121800.340	1.5	133954.650	.5
822.5625	24.00	-2.79	35618.510	1.0	47772.300	1.0
822.5814	29.01	-2.34	136014.260	2.0	148167.770	3.0
822.5855	23.00	-4.32	24830.180	1.5	36983.630	1.5
822.6092	15.00	-1.94	68183.200	1.5	80336.300	2.5
822.6436	14.00	-2.89	50566.397	1.0	62718.990	0.0
822.6647	20.02	.02	350741.190	3.0	362893.470	2.0
822.6769	27.00	-3.36	27497.060	2.5	39649.160	3.5
822.6810	63.00	-.53	16534.792	0.0	28690.172	0.0
822.6910	28.00	-2.64	42621.048	3.0	54772.940	3.0
822.6958	25.00	-4.50	50931.420	2.5	63083.240	1.5
822.7121	24.00	-4.20	35862.820	4.0	48014.400	4.0
822.7128	27.00	-4.75	43425.710	2.5	55577.280	1.5
822.7310	26.01	-3.12	87536.900	3.5	99688.200	3.5
822.7439	27.00	-3.75	28470.510	1.5	40621.620	1.5
822.7459	28.01	-2.83	121294.670	4.5	133445.750	4.5
822.7487	27.00	-3.41	44394.470	3.5	56545.510	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
822.7588	9.02	.12	452770.850	3.5	464921.740	3.5
822.7629	23.00	-4.23	19078.150	3.5	31226.980	2.5
822.7653	8.00	-.63	101147.526	2.0	113296.320	1.0
822.7743	26.00	-3.83	42532.729	3.0	54683.390	4.0
822.8019	26.00	-4.67	33412.706	3.0	45562.959	3.0
822.8523	25.00	-.55	45156.110	2.5	57305.620	3.5
822.8529	15.00	-.81	65585.000	2.5	77734.500	2.5
822.8888	15.00	-3.32	55939.300	.5	68088.270	1.5
822.8997	24.00	-.79	45201.640	1.0	57350.650	2.0
822.9037	26.00	-2.94	40534.180	3.0	52682.930	2.0
822.9085	18.00	-4.38	113643.260	1.0	125791.940	2.0
822.9417	26.00	-4.16	33765.291	2.0	45913.480	3.0
822.9546	17.01	-1.79	137804.400	1.0	149952.400	1.0
822.9613	26.01	-4.85	66377.370	3.5	78525.270	2.5
822.9878	8.01	-1.39	245816.290	1.5	257963.800	2.5
823.0001	8.00	.04	101147.526	2.0	113294.854	2.0
823.0027	8.00	-.61	101147.526	2.0	113294.816	3.0
823.0419	28.01	-2.72	115739.150	4.5	127885.860	4.5
823.0480	28.01	-2.40	109148.050	4.5	121294.670	4.5
823.0635	14.00	-.55	45321.848	3.0	57466.239	2.0
823.0769	9.00	.44	115917.909	2.5	128064.103	3.5
823.0830	92.00	-1.78	5726.684	0.0	17876.127	0.0
823.1044	28.00	-3.38	44565.100	3.0	56710.889	2.0
823.1124	28.01	-3.85	122140.710	4.5	134286.380	4.5
823.1274	22.00	-2.03	30039.211	5.0	42184.660	4.0
823.1275	22.00	-2.06	29907.273	2.0	42052.720	3.0
823.1719	26.00	-1.70	39625.784	4.0	51770.577	3.0
823.2184	9.00	-.48	116040.883	1.5	128184.990	.5
823.2236	18.01	-2.81	199525.150	1.5	211669.180	2.5
823.2339	26.00	-.98	35611.608	3.0	47755.485	3.0
823.2365	29.01	-3.41	135990.150	3.0	148133.990	3.0
823.2365	29.01	-4.80	135990.150	3.0	148133.990	2.0
823.2487	29.01	-3.42	136035.640	3.0	148179.300	4.0
823.3003	8.00	-.15	101155.422	1.0	113298.320	1.0
823.3036	27.00	-2.73	40827.770	1.5	52970.620	2.5
823.3192	12.01	-2.32	103705.660	4.5	115848.280	4.5
823.3192	12.01	-.59	103705.660	4.5	115848.280	5.5
823.3192	12.01	-.68	103705.660	3.5	115848.280	4.5
823.3212	16.01	-.19	152304.710	3.5	164447.300	2.5
823.3449	24.00	-3.22	33113.270	4.0	45255.510	3.0
823.3544	25.00	-.51	49888.080	3.5	62030.180	4.5
823.3609	22.00	-1.61	27498.975	3.0	39640.980	3.0
823.3653	20.02	-2.00	328606.780	2.0	340748.720	2.0
823.3992	24.00	-4.18	33935.650	2.0	46077.090	1.0
823.4182	26.02	-2.23	186998.600	4.0	199139.760	5.0
823.4324	28.01	-3.49	122140.710	4.5	134281.660	5.5
823.4439	25.00	-4.41	23549.200	2.5	35689.980	1.5
823.4602	18.00	-4.80	113643.260	1.0	125783.800	1.0
823.4636	12.01	.03	80650.020	1.5	92790.510	.5
823.4658	22.00	-2.98	29912.262	3.0	42052.720	3.0
823.4738	28.01	-1.89	93528.440	3.5	105668.780	2.5
823.4766	28.00	-1.15	42621.048	3.0	54761.346	4.0
823.4860	26.01	-4.51	60384.460	.5	72524.620	1.5
823.5274	29.01	-.35	110084.290	1.0	122223.840	0.0
823.5354	8.00	-.63	101155.422	1.0	113294.654	2.0
823.5376	26.02	.43	207640.800	6.0	219780.200	6.0
823.5376	26.02	-1.21	207640.800	7.0	219780.200	6.0
823.5376	26.02	.22	207640.800	7.0	219780.200	7.0
823.5376	26.02	1.35	207640.800	7.0	219780.200	8.0
823.5376	26.02	-.84	207640.800	6.0	219780.200	5.0
823.5376	26.02	1.25	207640.800	6.0	219780.200	7.0
823.5428	20.00	-1.65	35896.889	4.0	48036.212	3.0
823.5443	26.02	-.68	207640.900	5.0	219780.200	4.0
823.5443	26.02	1.15	207640.900	5.0	219780.200	6.0
823.5443	26.02	.48	207640.900	4.0	219780.200	4.0
823.5443	26.02	1.05	207640.900	4.0	219780.200	5.0
823.5443	26.02	-.66	207640.900	4.0	219780.200	3.0
823.5443	26.02	.49	207640.900	5.0	219780.200	5.0
823.5579	26.02	.93	207641.100	3.0	219780.200	4.0
823.5579	26.02	-.84	207641.100	3.0	219780.200	2.0
823.5579	26.02	.40	207641.100	3.0	219780.200	3.0
823.5688	12.01	-4.27	103705.660	3.5	115844.600	3.5
823.5688	12.01	-2.73	103705.660	4.5	115844.600	3.5
823.5688	12.01	-2.84	103705.660	3.5	115844.600	2.5
823.5701	23.00	-8.14	9824.580	2.5	21963.500	3.5
823.5715	26.02	.20	207641.300	2.0	219780.200	2.0
823.5715	26.02	.80	207641.300	2.0	219780.200	3.0
823.5912	28.01	.57	115081.360	4.5	127219.970	3.5
823.5993	8.01	-1.50	253789.510	.5	265926.000	1.5
823.6068	14.00	-3.21	49399.670	1.0	61538.050	0.0
823.6069	14.00	-2.24	51612.012	0.0	63750.390	1.0
823.6325	22.00	-2.30	29914.720	3.0	42052.720	3.0
823.6482	26.02	-4.67	193599.740	1.0	205737.510	2.0
823.6502	25.00	-3.68	50341.300	4.5	62479.040	4.5
823.6529	26.02	.05	207642.900	6.0	219780.600	6.0
823.6529	26.02	-1.54	207642.900	6.0	219780.600	5.0
823.6529	26.02	1.29	207642.900	6.0	219780.600	7.0
823.6665	26.02	-1.28	207643.100	5.0	219780.600	4.0
823.6665	26.02	1.20	207643.100	5.0	219780.600	6.0
823.6665	26.02	.22	207643.100	5.0	219780.600	5.0
823.6787	2.01	.26	421353.130	0.0	433493.786	0.0
823.6800	26.02	1.00	207643.300	3.0	219780.600	4.0
823.6800	26.02	.22	207643.300	4.0	219780.600	4.0
823.6800	26.02	1.10	207643.300	4.0	219780.600	5.0
823.6800	26.02	.05	207643.300	3.0	219780.600	3.0
823.6800	26.02	-1.36	207643.300	4.0	219780.600	3.0
823.6936	26.02	.90	207643.500	2.0	219780.600	3.0
823.6966	22.00	-4.63	31914.277	5.0	44051.333	6.0
823.7595	8.01	-2.19	253791.870	1.5	265926.000	1.5
823.7629	24.00	-4.30	48824.500	4.0	60960.580	4.0
823.7656	24.00	-.66	45225.200	2.0	57361.240	3.0
823.7695	22.00	-2.63	29971.078	4.0	42107.060	4.0
823.7717	25.00	-4.87	49591.510	1.5	61727.460	2.5
823.8382	20.01	-4.34	78164.720	4.5	90299.690	4.5
823.8382	20.01	-2.61	78164.720	4.5	90299.690	5.5
823.8382	20.01	-2.69	78164.720	3.5	90299.690	4.5
823.8558	9.02	-.45	430012.480	1.5	442147.190	2.5
823.8626	28.01	-1.91	115085.360	3.5	127219.970	3.5
823.8667	26.01	-3.50	50187.950	3.5	62322.500	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
823.8708	28.01	-3.69	116732.510	2.5	128867.000	3.5
823.8878	25.00	-4.71	35165.050	1.5	47299.290	.5
823.8973	21.00	-1.22	25014.150	2.5	37148.250	1.5
823.8993	28.01	-3.26	118897.940	2.5	131032.010	2.5
823.9102	28.01	-4.96	122140.710	4.5	134274.620	5.5
823.9130	26.00	-2.81	19552.474	1.0	31686.342	2.0
823.9448	24.00	-1.70	50557.560	4.0	62690.960	5.0
823.9559	26.00	-3.84	36975.640	3.0	49108.676	4.0
823.9788	28.02	-4.89	98238.200	4.0	110371.100	4.0
823.9920	22.00	-2.75	29768.655	2.0	41901.360	1.0
824.0000	41.00	-2.55	8630.355	0.0	20766.277	0.0
824.0304	28.01	-4.84	102742.740	1.5	114874.880	2.5
824.0311	29.01	-4.82	136035.640	3.0	148167.770	3.0
824.0370	40.00	-1.02	17018.737	0.0	29154.114	0.0
824.0508	27.00	-3.88	41528.530	5.5	53660.370	5.5
824.0509	92.00	-2.08	5726.684	0.0	17861.857	0.0
824.0603	14.03	-1.44	315230.270	2.5	327361.970	2.5
824.0603	14.03	-.14	315230.270	3.5	327361.970	2.5
824.0603	14.03	-.30	315230.270	2.5	327361.970	1.5
824.0653	22.00	-.62	33700.874	4.0	45832.500	5.0
824.0725	26.02	-4.08	193605.990	2.0	205737.510	2.0
824.0861	25.00	-4.38	50383.270	1.5	62514.590	2.5
824.0980	62.01	-1.63	13389.148	0.0	25523.627	0.0
824.1119	25.00	-4.85	51100.490	4.5	63231.430	4.5
824.1228	21.00	-1.34	25724.720	3.5	37855.500	2.5
824.1520	22.00	-3.67	22404.690	3.0	34535.040	2.0
824.1601	23.00	-2.23	8476.200	1.5	20606.430	.5
824.1751	26.01	-3.74	54870.620	2.5	67000.630	2.5
824.1758	24.00	-3.84	35884.400	5.0	48014.400	4.0
824.1845	20.02	.82	371059.950	3.0	383189.820	4.0
824.2279	20.00	-1.48	36547.688	0.0	48676.920	1.0
824.2389	7.00	-.21	83364.590	2.5	95493.660	1.5
824.2451	23.00	-9.48	13801.530	1.5	25930.510	1.5
824.3083	28.01	-2.34	122080.250	2.5	134208.300	2.5
824.3212	28.01	-4.18	121317.890	3.5	133445.750	4.5
824.3219	26.02	-4.61	201919.530	4.0	214047.380	4.0
824.3334	14.01	-3.95	114177.400	3.5	126305.080	3.5
824.3334	14.01	-2.40	114177.400	4.5	126305.080	3.5
824.3334	14.01	-2.52	114177.400	3.5	126305.080	2.5
824.3470	13.02	.85	189876.100	2.5	202003.580	3.5
824.3688	13.02	.96	189876.420	3.5	202003.580	4.5
824.3688	13.02	-.58	189876.420	3.5	202003.580	3.5
824.3728	25.00	-4.67	51718.220	1.5	63845.320	1.5
824.3767	17.00	-2.56	85917.937	.5	98044.980	1.5
824.3790	18.01	-1.12	189654.780	2.5	201781.790	2.5
824.3885	23.00	-3.37	24898.730	2.5	37025.600	3.5
824.3980	25.00	-4.38	51638.170	2.5	63764.900	2.5
824.4075	26.02	-3.88	193610.920	3.0	205737.510	2.0
824.4327	21.00	-3.58	32696.840	2.5	44823.060	1.5
824.4327	10.01	-.35	291801.880	1.5	303928.100	.5
824.4347	9.02	-3.03	418248.560	1.5	430374.750	2.5
824.4456	20.02	-2.03	347417.050	3.0	359543.080	4.0
824.4660	18.01	-3.38	199446.540	.5	211572.270	1.5
824.4850	24.00	-1.35	45225.200	2.0	57350.650	2.0
824.5060	42.00	-.44	28552.762	0.0	40681.237	0.0
824.5183	24.00	-3.53	48558.570	2.0	60683.530	1.0
824.5415	28.01	.06	109675.720	.5	121800.340	1.5
824.5610	22.00	-2.62	30060.328	4.0	42184.660	4.0
824.6183	23.00	-1.50	20767.570	3.5	32891.060	3.5
824.6299	24.00	-2.48	33934.880	3.0	46058.200	4.0
824.6407	18.01	-1.34	202544.320	2.5	214667.480	2.5
824.6557	24.00	-3.64	35862.820	4.0	47985.760	5.0
824.6584	28.01	-.83	127885.860	4.5	140008.760	3.5
824.6810	17.00	-1.67	88080.042	2.5	100202.610	1.5
824.6986	24.00	-4.29	48507.560	1.0	60629.870	2.0
824.7080	20.00	-1.61	36554.749	1.0	48676.920	1.0
824.7080	20.00	-1.25	36554.749	1.0	48676.920	2.0
824.7244	15.00	-4.66	68088.270	1.5	80210.200	.5
824.7387	28.01	-3.73	122086.580	3.5	134208.300	2.5
824.7440	57.00	-1.46	4032.876	0.0	16157.851	0.0
824.7483	26.02	-3.23	70725.010	3.0	82846.590	4.0
824.7571	26.02	-4.41	193610.920	3.0	205732.370	3.0
824.7632	28.01	-3.62	116732.510	2.5	128853.870	2.5
824.7721	20.02	-1.13	350900.040	2.0	363021.270	2.0
824.7806	22.00	-3.94	32013.534	6.0	44134.639	7.0
824.7877	26.02	-3.82	193611.370	4.0	205732.370	3.0
824.7962	22.00	-4.40	29986.185	3.0	42107.060	4.0
824.8115	25.01	-4.85	52373.180	3.0	64493.830	4.0
824.8149	26.00	-1.15	35257.309	4.0	47377.909	4.0
824.8259	9.02	-.58	455648.670	1.5	467769.110	.5
824.8272	23.00	-.20	26122.040	3.5	38242.460	3.5
824.8347	28.01	.39	127885.860	4.5	140006.170	4.5
824.8721	25.00	-2.65	50359.280	3.5	62479.040	4.5
824.8741	29.01	-4.32	136014.260	2.0	148133.990	3.0
824.8741	29.01	-3.48	136014.260	2.0	148133.990	2.0
824.8789	24.00	-3.51	48661.590	3.0	60781.250	2.0
824.8796	20.01	.57	60611.280	1.5	72730.930	2.5
824.8810	72.00	.38	36053.911	0.0	48176.872	0.0
824.8823	23.00	-5.71	13810.900	.5	25930.510	1.5
824.8850	28.01	-2.23	122175.420	2.5	134294.990	2.5
824.8864	24.00	-4.36	48558.570	2.0	60678.120	1.0
824.8950	73.00	-2.79	11130.738	0.0	23253.493	0.0
824.9091	28.00	-2.14	42653.723	2.0	54772.940	3.0
824.9102	13.01	-3.24	132819.900	2.0	144939.100	1.0
824.9102	13.01	-3.71	132819.900	1.0	144939.100	1.0
824.9374	28.01	-.83	121325.090	2.5	133443.890	2.5
824.9517	25.00	-3.86	51305.410	2.5	63424.000	3.5
824.9544	18.00	-3.06	112750.220	4.0	124868.770	3.0
824.9544	18.00	-1.63	112750.220	4.0	124868.770	4.0
824.9851	17.01	-3.92	128621.900	1.0	140740.000	1.0
825.0028	26.02	-4.53	70728.750	4.0	82846.590	4.0
825.0157	20.02	-2.39	359156.830	1.0	371274.480	2.0
825.0178	19.00	-2.43	21534.700	2.5	33652.320	2.5
825.0178	19.00	-1.13	21534.700	2.5	33652.320	3.5
825.0409	18.01	-2.62	199959.620	2.5	212076.900	2.5
825.0416	24.00	-.53	45255.510	3.0	57372.780	4.0
825.0545	28.01	-4.54	122144.990	2.5	134262.070	3.5
825.0564	14.00	-3.58	49188.617	2.0	61305.670	1.0
825.0639	58.01	-3.27	1371.178	0.0	13491.451	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
825.0920	15.00	-2.08	68088.270	1.5	80204.800	1.5
825.1008	26.01	-4.02	87571.800	2.5	99688.200	3.5
825.1301	28.01	-1.01	109269.830	1.5	121385.800	1.5
825.1506	7.01	-1.38	202714.120	1.0	214829.790	1.0
825.1662	25.00	-2.70	33825.490	2.5	45940.930	2.5
825.1744	19.00	-1.28	21537.000	1.5	33652.320	2.5
825.1805	24.00	-4.34	35870.530	4.0	47985.760	5.0
825.2023	24.00	-4.32	23386.350	3.0	35501.260	3.0
825.2085	18.00	-2.80	112750.220	4.0	124865.040	3.0
825.2264	28.00	-3.43	42585.296	4.0	54699.652	3.0
825.2385	9.00	-3.88	126581.180	.5	138695.560	1.5
825.2392	18.01	-1.54	188766.150	2.5	200880.520	3.5
825.2541	27.00	-3.31	40345.950	2.5	52460.100	2.5
825.2643	20.02	-2.49	350779.470	3.0	362893.470	2.0
825.2691	24.01	-3.20	53566.220	3.5	65680.150	4.5
825.2773	26.01	-4.30	72213.100	.5	84326.910	1.5
825.3025	24.00	-2.39	50557.560	4.0	62671.000	4.0
825.3032	28.01	.32	127895.330	3.5	140008.760	3.5
825.3393	28.01	-4.47	100309.290	5.5	112422.190	5.5
825.3488	23.00	-2.16	8715.720	3.5	20826.480	2.5
825.3883	18.01	-1.34	199959.620	2.5	212071.600	3.5
825.3910	28.01	-4.65	122140.710	4.5	134252.850	3.5
825.3938	14.00	-4.09	49399.670	1.0	61511.770	1.0
825.4100	4.00	-.41	42565.000	0.0	54680.191	0.0
825.4204	24.00	-3.62	35862.820	4.0	47974.530	3.0
825.4344	26.00	-4.56	24574.655	4.0	36686.159	4.0
825.4430	28.00	-2.28	42621.046	3.0	54732.425	2.0
825.4647	28.01	-4.17	122144.990	2.5	134256.050	2.5
825.4722	20.01	-.38	60611.280	1.5	72722.230	1.5
825.4796	28.01	-2.11	127895.330	3.5	140006.170	4.5
825.4844	28.01	-2.75	122270.050	3.5	134380.820	3.5
825.4865	28.01	-4.44	100609.010	2.5	112719.750	3.5
825.5042	14.02	-4.13	230301.220	3.0	242411.700	4.0
825.5083	18.00	-1.88	112750.220	4.0	124860.640	4.0
825.5083	18.00	-.57	112750.220	4.0	124860.640	5.0
825.5294	25.01	-4.60	52383.720	4.0	64493.830	4.0
825.5335	14.02	-2.33	230301.220	3.0	242411.270	3.0
825.5342	14.02	-2.59	230301.660	4.0	242411.700	4.0
825.5349	24.00	-4.13	35807.900	2.0	47917.930	2.0
825.5555	17.00	-1.88	85244.330	.5	97354.057	1.5
825.5581	14.02	-2.69	230302.010	4.0	242411.700	4.0
825.5601	14.02	-1.28	230301.220	3.0	242410.860	2.0
825.5635	14.02	-1.41	230301.660	4.0	242411.270	3.0
825.5778	17.01	-3.43	149798.300	2.0	161907.700	2.0
825.5813	14.02	-1.04	230302.350	5.0	242411.700	4.0
825.5874	14.02	-1.51	230302.010	4.0	242411.270	3.0
825.5894	23.00	-2.08	8578.520	2.5	20687.750	1.5
825.5942	27.00	-4.26	36092.440	2.5	48201.600	3.5
825.6058	28.01	.53	93390.060	2.5	105499.050	3.5
825.6136	22.00	-2.61	27418.015	2.0	39526.890	2.0
825.6180	28.01	-3.34	118923.200	3.5	131032.010	2.5
825.6344	25.01	-3.97	90596.800	2.0	102705.370	3.0
825.6514	27.00	-1.66	42796.670	1.5	54904.990	2.5
825.6627	26.00	-4.46	34636.820	2.0	46744.975	3.0
825.6668	20.00	-1.36	33317.264	0.0	45425.358	1.0
825.6937	29.01	-.97	123556.640	2.0	135664.340	1.0
825.6942	17.00	-2.47	85735.091	1.5	97842.783	1.5
825.7500	28.00	-3.28	46522.965	2.0	58629.840	2.0
825.7698	28.00	-3.40	46522.965	2.0	58629.550	3.0
825.7967	26.01	-8.31	26352.800	4.5	38458.990	4.5
825.8226	16.01	-3.51	115870.400	1.5	127976.210	1.5
825.8281	24.00	-1.25	45255.510	3.0	57361.240	3.0
825.8517	17.00	-1.05	88080.042	2.5	100185.426	2.5
825.8581	24.01	-2.95	53051.550	1.5	65156.640	2.5
825.8636	24.01	-4.55	39684.000	3.5	51789.210	3.5
825.8658	17.00	-1.91	88080.042	2.5	100185.220	1.5
825.8793	24.00	-3.00	37205.880	3.0	49310.860	3.0
825.8963	28.01	-4.06	122144.990	2.5	134249.720	1.5
825.9107	12.01	-3.32	103689.890	2.5	115794.410	2.5
825.9107	12.01	-2.02	103689.890	3.5	115794.410	2.5
825.9107	12.01	-2.17	103689.890	2.5	115794.410	1.5
825.9188	24.00	-2.83	50557.560	4.0	62661.960	3.0
825.9325	24.00	-4.36	35813.730	3.0	47917.930	2.0
825.9509	18.01	-.14	183985.940	1.5	196069.870	2.5
825.9769	20.02	-.09	347417.050	3.0	359520.600	2.0
825.9919	14.00	-1.76	50566.397	1.0	62669.727	2.0
825.9965	22.00	-2.68	29855.248	1.0	41958.510	2.0
825.9997	22.00	-3.69	29768.655	2.0	41871.870	2.0
826.0376	28.01	-3.41	121800.340	1.5	133903.000	1.5
826.0615	26.01	-3.00	87470.800	4.5	99573.110	4.5
826.0758	23.00	-.43	26004.220	2.5	38106.320	2.5
826.0823	26.00	-4.49	43022.969	4.0	55124.974	3.0
826.0874	23.00	-2.59	20789.130	2.5	32891.060	3.5
826.0962	20.00	-2.78	36575.119	2.0	48676.920	1.0
826.0962	20.00	-1.77	36575.119	2.0	48676.920	2.0
826.0962	20.00	-.85	36575.119	2.0	48676.920	3.0
826.1072	26.01	-3.78	50142.930	2.5	62244.570	1.5
826.1263	24.00	-3.21	35884.400	5.0	47985.760	5.0
826.1973	24.00	-3.36	23933.900	4.0	36034.220	3.0
826.2050	92.00	-1.04	8065.752	0.0	20169.286	0.0
826.2226	25.01	-4.69	52373.180	3.0	64473.130	3.0
826.2256	22.00	-1.90	25438.898	2.0	37538.804	2.0
826.2467	9.00	-1.71	116040.883	1.5	128140.460	2.5
826.2567	14.02	.81	214989.270	2.0	227086.720	3.0
826.3018	26.02	-4.42	193595.300	0.0	205694.090	1.0
826.3414	26.01	-3.49	54902.420	1.5	67000.630	2.5
826.3445	20.00	-1.39	36731.615	1.0	48829.780	2.0
826.3445	20.00	-3.69	36731.615	1.0	48829.780	1.0
826.3482	27.00	-4.37	42269.320	4.5	54367.430	5.5
826.3817	26.00	-1.69	39969.830	3.0	52067.450	2.0
826.4131	20.02	-.13	371059.950	3.0	383157.110	3.0
826.4248	25.00	-4.89	56189.450	4.5	68286.440	4.5
826.4343	24.00	-.44	45286.080	4.0	57382.930	5.0
826.4518	18.00	-.26	95399.870	1.0	107496.463	1.0
826.4541	20.02	-1.44	371059.950	3.0	383156.510	4.0
826.4594	14.00	-4.10	50499.838	2.0	62596.320	2.0
826.4596	23.00	-2.46	25130.960	2.5	37227.440	2.5
826.4794	10.01	-.63	305566.940	1.5	317663.130	1.5
826.4808	18.01	-1.30	160239.350	1.5	172335.520	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
826.4835	26.01	-2.31	54904.500	3.5	67000.630	2.5
826.4850	73.00	-2.77	9678.902	0.0	21778.335	0.0
826.4960	44.00	.09	29036.707	0.0	41135.979	0.0
826.5081	28.01	-3.72	119833.000	5.5	131928.770	4.5
826.5402	13.01	-2.77	134181.200	4.0	146276.500	3.0
826.5402	13.01	-3.26	134181.200	4.0	146276.500	3.0
826.5402	13.01	-4.77	134181.200	3.0	146276.500	3.0
826.5512	24.00	-2.29	45255.510	3.0	57350.650	2.0
826.5635	18.01	-2.99	199981.940	1.5	212076.900	2.5
826.5648	14.02	.06	214989.270	2.0	227084.210	2.0
826.5792	15.00	-3.36	68088.270	1.5	80183.000	2.5
826.5826	9.02	-4.78	414894.890	4.5	426989.570	3.5
826.6004	28.01	-3.59	103025.580	2.5	115120.000	2.5
826.6052	26.02	-4.07	193599.740	1.0	205694.090	1.0
826.6462	25.01	-4.93	52379.380	2.0	64473.130	3.0
826.6598	27.00	-1.78	42811.440	3.5	54904.990	2.5
826.6940	9.02	-4.08	441276.720	2.5	453369.770	1.5
826.7077	28.01	-3.78	109148.050	4.5	121240.900	3.5
826.7378	25.00	-4.26	44993.920	3.5	57086.330	2.5
826.7555	23.00	-1.57	21603.170	4.5	33695.320	5.5
826.7712	14.02	-1.11	214989.270	2.0	227081.190	1.0
826.8485	26.02	-4.50	201919.530	4.0	214010.320	5.0
826.8704	23.00	-4.99	24898.730	2.5	36989.200	2.5
826.8718	18.01	-1.24	183985.940	1.5	196076.390	1.5
826.8865	26.00	-3.63	34636.820	2.0	46727.055	2.0
826.9047	17.00	-.98	88080.042	2.5	100170.010	2.5
826.9162	15.00	-2.89	68246.500	2.5	80336.300	2.5
826.9164	17.00	-.74	88080.042	2.5	100169.640	3.5
826.9217	28.01	-3.98	116732.510	2.5	128822.230	1.5
826.9327	14.02	.46	214994.650	1.0	227084.210	2.0
826.9333	27.00	-.10	41528.530	5.5	53618.080	6.5
826.9708	26.00	-2.19	37046.000	4.0	49135.003	3.0
827.0250	10.01	-2.81	281998.280	2.5	294086.490	1.5
827.0291	27.00	-2.55	40827.770	1.5	52915.920	.5
827.0325	26.02	-4.18	193605.990	2.0	205694.090	1.0
827.0394	28.02	-4.69	121412.200	2.0	133500.200	2.0
827.0599	17.00	-1.30	85442.430	1.5	97530.130	2.5
827.0989	27.00	-4.98	42269.320	4.5	54356.450	4.5
827.1031	6.00	-4.67	75253.970	1.0	87341.040	0.0
827.1037	7.01	-1.13	202170.630	1.0	214257.690	1.0
827.1283	24.00	-1.41	45286.080	4.0	57372.780	4.0
827.1318	28.01	-4.08	122175.420	2.5	134262.070	3.5
827.1326	28.00	-3.70	47139.392	2.0	59226.030	1.0
827.1392	14.02	-.02	214994.650	1.0	227081.190	1.0
827.1475	24.00	-3.71	21810.840	1.0	33897.260	1.0
827.1509	7.00	-3.37	97770.150	.5	109856.520	1.5
827.1642	17.00	-.75	88080.042	2.5	100166.217	3.5
827.1680	28.01	-4.30	103653.030	3.5	115739.150	4.5
827.1749	28.01	-.63	122441.220	4.5	134527.240	3.5
827.1769	28.01	-3.12	104646.520	3.5	116732.510	2.5
827.1831	25.00	-4.08	38008.700	5.5	50094.600	6.5
827.1947	14.02	.19	214995.460	0.0	227081.190	1.0
827.2324	25.00	-4.47	50341.300	4.5	62426.480	3.5
827.2632	15.00	-2.29	68088.270	1.5	80173.000	.5
827.2749	22.00	-.44	30039.211	5.0	42123.770	6.0
827.2837	23.00	-2.16	26021.890	3.5	38106.320	2.5
827.3125	24.00	-2.40	36552.130	3.0	48636.140	3.0
827.3145	14.02	-4.46	242473.660	3.0	254557.640	4.0
827.3193	16.01	-2.84	115892.300	.5	127976.210	1.5
827.3268	18.01	-4.97	192333.430	.5	204417.230	1.5
827.3282	14.02	-2.91	242473.860	4.0	254557.640	4.0
827.3405	14.02	-2.66	242473.660	3.0	254557.260	3.0
827.3426	26.01	-4.27	60441.050	1.5	72524.620	1.5
827.3519	47.00	.37	30327.228	0.0	42413.983	0.0
827.3542	14.02	-1.74	242473.860	4.0	254557.260	3.0
827.3563	27.00	-4.68	43199.650	2.5	55283.020	2.5
827.3563	14.02	-1.60	242473.660	3.0	254557.030	2.0
827.3563	14.02	-3.01	242474.270	4.0	254557.640	4.0
827.3666	21.00	-4.84	17012.980	2.5	29096.200	3.5
827.3767	17.00	-.55	84648.100	2.5	96731.172	3.5
827.3823	14.02	-1.84	242474.270	4.0	254557.260	3.0
827.3905	24.00	-.45	45306.450	5.0	57389.320	6.0
827.3933	14.02	-1.37	242474.810	5.0	254557.640	4.0
827.3980	23.00	-3.59	24992.680	3.5	37075.640	4.5
827.4068	28.00	-3.76	42585.296	4.0	54667.928	4.0
827.4152	28.01	-4.86	103025.580	2.5	115108.090	2.5
827.4515	26.02	-3.79	201892.440	5.0	213974.420	6.0
827.4614	9.00	-.07	116040.883	1.5	128122.719	1.5
827.4638	26.01	-4.28	60270.370	3.5	72352.170	3.5
827.4746	22.00	-2.14	29971.078	4.0	42052.720	3.0
827.4974	28.01	-4.59	56075.260	2.5	68156.570	1.5
827.5035	13.02	1.13	189928.490	3.5	202009.710	4.5
827.5106	22.00	-3.39	29907.273	2.0	41988.390	3.0
827.5165	13.02	1.22	189928.680	4.5	202009.710	5.5
827.5165	13.02	-.52	189928.680	4.5	202009.710	4.5
827.5281	10.01	-.82	305582.270	.5	317663.130	1.5
827.5420	64.00	-1.67	7339.834	0.0	19423.813	0.0
827.5439	28.01	-4.67	122175.420	2.5	134256.050	2.5
827.5501	26.01	-9.86	26932.740	.5	39013.280	1.5
827.5569	27.00	-.82	42434.230	2.5	54514.670	3.5
827.5638	24.00	-3.79	48824.500	4.0	60904.840	3.0
827.5878	26.00	-1.60	39969.630	3.0	52049.620	2.0
827.5933	24.00	-3.57	43124.880	2.0	55204.790	3.0
827.6015	28.01	-4.26	99040.750	1.5	111120.540	1.5
827.6371	28.01	-2.56	122175.420	2.5	134254.690	1.5
827.6440	23.00	-3.98	20767.570	3.5	32846.740	2.5
827.6690	28.00	-1.30	42621.048	3.0	54699.852	3.0
827.6760	28.00	-2.29	42653.723	2.0	54732.425	2.0
827.6950	72.00	-2.99	2339.068	0.0	14420.613	0.0
827.7070	24.00	-2.02	42908.570	4.0	54986.620	3.0
827.7324	10.01	.29	291202.030	3.5	303279.910	2.5
827.7522	24.00	-2.78	36558.550	2.0	48636.140	3.0
827.7557	29.01	.32	108014.660	3.0	120092.200	2.0
827.7632	28.01	-2.32	122175.420	2.5	134252.650	3.5
827.7728	28.01	-3.66	100609.010	2.5	112686.300	2.5
827.7961	25.01	-4.64	52379.380	2.0	64456.330	2.0
827.8283	24.00	-2.31	45306.450	5.0	57382.930	5.0
827.8441	9.00	-2.66	116143.579	.5	128219.830	1.5
827.8524	22.00	-3.51	29912.262	3.0	41988.390	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
827.8538	28.00	-4.04	42656.317	1.0	54732.425	2.0
827.9071	18.00	-2.97	113716.610	3.0	125791.940	2.0
827.9188	24.00	-2.08	45286.080	4.0	57361.240	3.0
827.9346	16.01	-3.06	140229.780	2.5	152304.710	3.5
827.9435	17.01	-1.57	137877.600	2.0	149952.400	1.0
827.9507	12.00	-3.77	46403.065	2.0	58477.760	2.0
827.9666	28.00	-2.12	42585.296	4.0	54659.759	5.0
827.9956	23.00	-3.70	24915.160	1.5	36989.200	2.5
828.0014	12.00	-3.28	46403.065	2.0	58477.020	1.0
828.0045	27.00	-3.79	35450.560	3.5	47524.470	4.5
828.0210	22.00	-2.78	29914.720	3.0	41988.390	3.0
828.0292	29.01	-3.63	136442.050	3.0	148515.600	4.0
828.0381	23.00	-.70	25930.510	1.5	38003.930	1.5
828.0587	10.01	-1.77	280473.580	1.5	292546.700	.5
828.0933	17.00	-1.68	85735.091	1.5	97807.707	2.5
828.0937	25.00	-4.99	38008.700	5.5	50081.310	5.5
828.1175	22.00	-2.98	29829.097	0.0	41901.360	1.0
828.1620	73.00	-2.17	9920.875	0.0	21995.807	0.0
828.1815	22.00	-4.92	28772.860	0.0	40644.190	1.0
828.1836	24.00	-4.81	48558.570	2.0	60629.670	2.0
828.2384	23.00	.03	26171.960	4.5	38242.460	3.5
828.3077	8.01	-3.25	253789.510	.5	265859.000	.5
828.3153	21.00	-4.35	33056.190	3.5	45125.570	4.5
828.3153	29.01	-.08	121524.670	3.0	133594.050	3.0
828.3345	27.00	-.57	43199.650	2.5	55268.750	3.5
828.3778	23.00	-4.24	24915.160	1.5	36983.630	1.5
828.3810	40.00	-1.47	10969.423	0.0	23041.163	0.0
828.3867	23.01	-7.33	25191.080	2.0	37259.420	1.0
828.3873	28.00	-4.01	44206.185	3.0	56274.516	2.0
828.3915	26.02	-3.25	186268.790	2.0	198337.060	3.0
828.3956	28.01	-3.38	115827.120	3.5	127895.330	3.5
828.4204	22.00	-2.33	30039.211	5.0	42107.060	4.0
828.4306	29.01	-2.09	134359.900	1.0	146427.600	1.0
828.4362	22.00	-5.75	7255.369	2.0	19322.988	2.0
828.4478	25.00	-2.36	44288.760	4.5	56356.210	3.5
828.4649	25.00	-4.73	50359.280	3.5	62426.480	3.5
828.4698	8.01	-3.55	253791.870	1.5	265859.000	.5
828.4856	9.02	-4.73	441276.720	2.5	453343.620	2.5
828.5000	24.00	-2.88	37244.170	4.0	49310.660	3.0
828.5106	22.00	-3.62	29986.185	3.0	42052.720	3.0
828.5247	24.00	-1.99	45306.450	5.0	57372.780	4.0
828.5549	18.01	-1.89	189654.780	2.5	201720.670	1.5
828.5782	26.01	-4.38	72619.610	2.5	84685.160	3.5
828.5830	24.00	-3.25	33934.880	3.0	46000.360	3.0
828.5906	27.00	-1.46	44460.140	2.5	56545.510	2.5
828.6016	28.01	-4.84	118877.090	1.5	130942.300	1.5
828.6021	28.00	-3.61	46522.965	2.0	58588.168	3.0
828.6318	26.02	-2.64	186268.790	2.0	198333.560	2.0
828.6359	24.00	-2.55	33935.650	2.0	46000.360	3.0
828.6394	28.01	-4.55	110021.920	4.5	122086.560	3.5
828.6483	7.01	-2.50	202765.260	2.0	214829.790	1.0
828.6565	10.01	-.43	279137.620	3.5	291202.030	3.5
828.7321	28.01	-4.06	122144.990	2.5	134208.300	2.5
828.7619	26.00	-2.36	37046.000	4.0	49108.876	4.0
828.8193	25.00	-4.24	45156.110	2.5	57218.150	3.5
828.8310	28.01	-1.39	121800.340	1.5	133862.210	1.5
828.8908	17.01	-3.66	165362.100	0.0	177423.100	1.0
828.8936	18.01	-3.27	199525.150	1.5	211586.110	2.5
828.8943	8.01	-.43	245902.850	2.5	257963.800	2.5
828.9259	62.01	-1.53	13469.806	0.0	25530.610	0.0
828.9286	28.01	.60	93528.440	3.5	105588.690	4.5
828.9733	24.00	-2.83	33906.650	1.0	45966.450	2.0
829.0462	28.01	-3.39	115827.120	3.5	127885.860	4.5
829.0668	9.02	-.53	455768.720	.5	467827.160	1.5
829.0689	24.00	-4.86	36577.730	4.0	48636.140	3.0
829.0909	28.01	-1.52	121385.800	1.5	133443.890	2.5
829.0957	18.01	-2.38	203007.690	1.5	215065.710	.5
829.1046	24.00	-3.13	35884.400	5.0	47942.290	6.0
829.1239	23.00	-3.69	20789.130	2.5	32846.740	2.5
829.1239	23.00	-3.60	20789.130	2.5	32846.740	2.5
829.1383	25.00	-3.74	51787.920	.5	63845.320	1.5
829.1390	28.01	-2.05	121800.340	1.5	133857.730	.5
829.1459	18.00	-2.19	113426.050	2.0	125483.340	2.0
829.1472	24.00	-4.27	48558.570	2.0	60615.640	3.0
829.1582	18.00	-.89	113426.050	2.0	125483.160	3.0
829.1714	8.00	-4.23	101147.526	2.0	113204.445	1.0
829.1840	28.00	-2.78	44206.185	3.0	56262.920	3.0
829.1899	18.00	-2.75	113426.050	2.0	125482.700	3.0
829.2181	20.00	.07	39340.080	2.0	51396.320	3.0
829.2387	23.00	-9.16	14548.830	2.5	26604.770	3.5
829.2614	14.02	-1.42	242639.380	5.0	254694.990	5.0
829.2614	14.02	-1.53	242639.380	5.0	254694.990	5.0
829.2614	14.02	-3.33	242639.380	6.0	254694.990	5.0
829.2614	14.02	.38	242639.380	5.0	254694.990	6.0
829.2614	14.02	-3.08	242639.380	5.0	254694.990	6.0
829.2614	14.02	-4.29	242639.380	5.0	254694.990	6.0
829.2614	14.02	.38	242639.380	5.0	254694.990	6.0
829.2614	14.02	-1.43	242639.380	6.0	254694.990	6.0
829.2614	14.02	-1.52	242639.380	6.0	254694.990	6.0
829.2614	14.02	.45	242639.380	6.0	254694.990	7.0
829.2614	14.02	.30	242639.380	4.0	254694.990	5.0
829.2637	22.00	-3.67	33700.874	4.0	45756.450	5.0
829.2855	28.01	.03	109269.830	1.5	121325.090	2.5
829.3354	22.00	-4.59	29768.655	2.0	41823.190	3.0
829.3370	16.00	-3.71	113020.390	3.0	125074.900	2.0
829.3523	26.00	-2.31	26623.726	2.0	38676.015	2.0
829.3721	15.00	-3.34	68246.500	2.5	80300.500	3.5
829.3742	9.02	-4.56	441315.800	.5	453369.770	1.5
829.3776	10.01	-.79	290371.950	2.5	302425.670	1.5
829.4018	23.00	-4.64	27187.770	2.5	39241.340	2.5
829.4238	25.00	-3.94	50373.230	2.5	62426.480	3.5
829.4329	22.00	-3.40	29661.232	1.0	41714.350	2.0
829.4458	28.01	-1.44	121561.060	.5	133613.990	1.5
829.4582	24.00	-4.78	35813.730	3.0	47866.480	4.0
829.4684	14.00	-1.57	45276.188	1.0	57328.789	1.0
829.4706	22.00	-4.64	28791.620	1.0	40844.190	1.0
829.5277	24.00	-3.29	35934.020	6.0	47985.760	5.0
829.5623	22.00	-4.30	29907.273	2.0	41958.510	2.0
829.5986	7.00	-2.68	97805.810	1.5	109856.520	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
829.6207	7.01	-.69	190120.240	1.0	202170.630	1.0
829.6475	8.02	-1.67	438241.000	1.0	450291.000	1.0
829.6619	28.01	.22	93390.060	2.5	105439.850	1.5
829.6730	18.01	-.69	190106.230	1.5	202155.860	2.5
829.6778	26.01	-3.96	50076.100	1.5	62125.660	1.5
829.6826	27.00	-.50	42811.440	3.5	54860.930	4.5
829.6896	28.00	-4.10	47139.392	2.0	59188.780	3.0
829.6902	24.00	-4.17	21847.880	2.0	33897.260	1.0
829.7122	27.00	-2.89	32733.070	3.5	44782.130	4.5
829.7597	24.00	-4.67	35572.940	2.0	47621.310	3.0
829.7721	14.00	-2.15	49399.670	1.0	61447.860	2.0
829.7997	25.01	-3.99	54846.000	0.0	66893.790	1.0
829.8417	24.01	-4.20	55023.300	2.5	67070.480	1.5
829.8458	18.01	-4.12	199525.150	1.5	211572.270	1.5
829.8578	9.00	.01	116040.883	1.5	128087.829	2.5
829.8588	22.00	-.55	29971.078	4.0	42018.010	5.0
829.8624	28.00	-4.42	42621.048	3.0	54667.928	4.0
829.8649	22.00	-4.07	27480.047	3.0	39526.890	2.0
829.8725	22.00	-2.26	30060.328	4.0	42107.060	4.0
829.8761	25.00	-3.67	51718.220	1.5	63764.900	2.5
829.8989	27.00	-.21	42269.320	4.5	54315.670	5.5
829.9059	22.00	-3.58	29912.262	3.0	41958.510	2.0
829.9064	29.01	-3.92	136133.060	4.0	148179.300	5.0
829.9064	29.01	-3.04	136133.060	4.0	148179.300	4.0
829.9141	28.00	-4.26	42653.723	2.0	54699.852	3.0
829.9153	22.00	-4.21	29855.248	1.0	41901.360	1.0
829.9505	29.01	-4.54	125568.700	1.0	137614.300	0.0
829.9726	26.01	-4.43	60384.460	.5	72429.740	.5
829.9738	14.00	-3.42	50499.838	2.0	62545.100	1.0
829.9810	40.00	-2.07	12259.943	0.0	24308.412	0.0
829.9862	22.00	-2.42	25493.722	2.0	37538.804	2.0
830.0491	24.01	-4.88	76879.030	3.5	88923.200	2.5
830.0753	22.00	-2.05	29914.720	3.0	41958.510	2.0
830.0830	46.00	.30	36779.829	0.0	48826.817	0.0
830.0879	62.01	-2.03	11695.340	0.0	23742.257	0.0
830.1373	24.00	-2.74	50628.110	3.0	62671.000	4.0
830.1407	27.00	-1.52	42434.230	2.5	54477.070	3.5
830.1462	18.01	-1.56	179931.770	1.5	191974.530	1.5
830.1524	13.02	-2.65	189928.490	3.5	201971.160	3.5
830.1524	13.02	-1.22	189928.490	3.5	201971.160	2.5
830.1655	13.02	-1.11	189928.680	4.5	201971.160	3.5
830.1745	20.02	-2.02	347758.220	2.0	359800.570	3.0
830.1787	28.01	-4.06	109148.050	4.5	121190.340	4.5
830.1929	7.00	-2.75	97770.150	.5	109812.233	.5
830.2118	25.02	-4.97	124754.800	3.5	136796.610	2.5
830.2160	22.00	-2.33	33680.130	3.0	45721.878	4.0
830.2393	9.00	-.38	116143.579	.5	128184.990	.5
830.2448	7.01	-2.10	202170.630	1.0	214211.960	0.0
830.2959	24.00	-1.77	45348.730	6.0	57389.320	6.0
830.3313	12.00	-1.78	47841.119	0.0	59881.196	1.0
830.3317	27.00	-5.00	43242.950	2.5	55283.020	2.5
830.3573	9.01	-.15	243458.900	1.0	255498.600	2.0
830.3662	27.00	-5.00	43537.710	1.5	55577.280	1.5
830.3690	25.00	-3.94	35114.980	2.5	47154.510	1.5
830.3773	18.00	-2.56	113020.390	3.0	125059.800	2.0
830.4014	13.02	-1.27	201971.160	3.5	214010.220	3.5
830.4014	13.02	.28	201971.160	3.5	214010.220	4.5
830.4014	13.02	.17	201971.160	2.5	214010.220	3.5
830.4565	15.00	-2.70	67971.140	.5	80009.400	.5
830.4583	17.00	-1.34	85442.430	1.5	97480.664	1.5
830.5159	17.01	-3.29	149952.400	1.0	161989.800	1.0
830.5428	23.00	-2.15	21603.170	4.5	33640.180	4.5
830.5585	12.00	-1.90	47844.414	1.0	59881.196	1.0
830.5596	12.00	-1.60	47844.414	1.0	59881.181	2.0
830.5733	14.00	-2.97	48264.292	3.0	60300.860	2.0
830.5790	62.01	-1.12	14437.696	0.0	26477.490	0.0
830.5900	40.00	-1.66	5000.766	0.0	17040.400	0.0
830.5910	72.01	-1.79	17260.709	0.0	29300.329	0.0
830.5980	26.01	-4.10	87536.900	3.5	99573.110	4.5
830.6249	9.01	.07	243462.780	2.0	255498.600	2.0
830.6252	22.00	-.30	27750.124	5.0	39785.940	4.0
830.6648	20.00	-4.50	35730.454	2.0	47765.697	3.0
830.6691	26.02	-3.26	186303.440	3.0	198338.620	4.0
830.6705	14.00	-.80	45293.629	2.0	57328.789	1.0
830.6719	24.00	-3.00	45354.180	5.0	57389.320	6.0
830.6905	9.01	-2.62	277188.860	1.0	289223.730	1.0
830.7015	29.01	-4.21	136133.060	4.0	148167.770	3.0
830.7140	26.01	-3.82	72650.630	4.5	84685.160	3.5
830.7349	22.00	-2.79	6661.003	3.0	18695.230	4.0
830.7368	24.00	-.44	45348.730	6.0	57382.930	5.0
830.7466	20.00	-.20	39335.322	1.0	51369.380	2.0
830.7480	22.00	-3.14	33655.853	2.0	45689.890	3.0
830.7599	26.00	-6.13	7985.783	2.0	20019.648	1.0
830.7609	24.00	-3.36	50628.110	3.0	62661.960	3.0
830.7678	23.00	-2.93	20812.990	1.5	32846.740	2.5
830.7678	23.00	-4.19	20812.990	1.5	32846.740	2.5
830.7768	26.02	-2.50	186303.440	3.0	198337.060	3.0
830.8023	26.01	-4.23	72651.910	3.5	84685.160	3.5
830.8279	28.01	-2.70	122175.420	2.5	134208.300	2.5
830.8389	23.00	-4.93	24992.880	3.5	37025.600	3.5
830.8541	28.01	-1.90	109148.050	4.5	121180.550	5.5
830.8997	15.00	-3.02	55939.300	.5	67971.140	.5
830.9121	28.01	-2.30	106283.160	2.5	118314.820	2.5
830.9135	26.01	-4.17	50212.930	2.5	62244.570	1.5
830.9183	24.00	-3.93	33934.880	3.0	45966.450	2.0
830.9239	25.00	-4.93	38351.780	.5	50383.270	1.5
830.9335	24.00	-4.81	52720.070	4.0	64751.420	4.0
830.9474	22.00	-4.28	33680.130	3.0	45711.280	4.0
830.9500	40.00	-1.85	14034.408	0.0	26068.826	0.0
830.9518	20.00	-1.52	36731.615	1.0	48762.700	2.0
830.9518	20.00	-3.82	36731.615	1.0	48762.700	1.0
830.9715	24.00	-4.14	33935.650	2.0	45966.450	2.0
831.0185	26.02	-3.55	186303.440	3.0	198333.560	2.0
831.0199	8.01	-1.15	245767.800	.5	257797.900	1.5
831.0244	12.00	-3.08	47851.162	2.0	59881.196	1.0
831.0255	12.00	-2.07	47851.162	2.0	59881.181	2.0
831.0264	12.00	-1.15	47851.162	2.0	59881.168	3.0
831.0321	14.00	-3.16	50566.397	1.0	62596.320	2.0
831.0731	9.01	.22	243469.270	3.0	255498.600	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
831.0752	20.00	-.75	39340.080	2.0	51369.380	2.0
831.0985	26.00	-6.16	7728.058	3.0	19757.020	3.0
831.1131	24.00	-1.18	45354.180	5.0	57382.930	5.0
831.1664	10.01	-1.02	290803.820	.5	302831.800	.5
831.1708	22.00	-.53	27498.975	3.0	39526.890	2.0
831.2064	23.00	-2.51	25130.960	2.5	37158.360	1.5
831.2239	22.00	-2.06	25797.600	3.0	37824.748	4.0
831.2457	20.00	-2.76	35730.454	2.0	47757.286	2.0
831.2458	27.00	-6.06	14036.280	1.5	26063.110	1.5
831.2816	22.00	-.42	27614.667	4.0	39640.980	3.0
831.3143	28.00	-4.67	50789.500	4.0	62815.340	5.0
831.3170	27.00	-2.05	43242.950	2.5	55268.750	3.5
831.3689	28.01	-2.75	115870.280	2.5	127895.330	3.5
831.3765	28.01	-4.43	122270.050	3.5	134294.990	2.5
831.4207	24.00	-2.62	45358.630	4.0	57382.930	5.0
831.4235	27.00	-4.86	43425.710	2.5	55449.970	2.5
831.4346	16.01	-.45	113461.220	1.5	125485.320	.5
831.4974	20.00	-1.53	36547.688	0.0	48570.880	1.0
831.4989	10.01	.09	291495.040	2.5	303518.210	1.5
831.5279	27.00	-3.19	34352.420	1.5	46375.170	1.5
831.5299	26.00	-4.71	42532.729	3.0	54555.450	4.0
831.5504	14.00	-2.84	48020.074	1.0	60042.500	0.0
831.5658	20.00	-2.11	35730.454	2.0	47752.655	1.0
831.6040	57.00	-2.31	2984.328	0.0	15009.282	0.0
831.6324	28.01	-4.94	87538.090	3.5	99559.330	2.5
831.6351	26.01	-4.52	86547.550	2.5	98568.750	3.5
831.6487	22.00	-3.58	33700.874	4.0	45721.878	4.0
831.6731	26.00	-4.91	38678.015	2.0	50698.666	2.0
831.7207	26.00	-4.23	42859.756	2.0	54879.720	2.0
831.7305	14.00	-4.58	50499.838	2.0	62519.660	2.0
831.7313	22.00	-4.91	35757.510	4.0	47777.320	5.0
831.7394	14.00	-1.10	45276.188	1.0	57295.881	0.0
831.8150	24.00	-.37	45354.180	5.0	57372.780	4.0
831.8227	24.00	-3.72	50628.110	3.0	62646.600	2.0
831.8310	29.01	-2.89	136160.930	5.0	148179.300	5.0
831.8310	29.01	-4.62	136160.930	5.0	148179.300	4.0
831.8318	20.00	-.56	39333.382	0.0	51351.740	1.0
831.8379	27.00	-2.89	41918.410	3.5	53936.680	2.5
831.8670	28.01	-1.43	107082.210	2.5	119100.060	1.5
831.8703	28.00	-2.77	47208.228	1.0	59226.030	1.0
831.9042	22.00	-2.48	29971.078	4.0	41988.390	3.0
831.9258	26.02	-4.74	202030.380	3.0	214047.380	4.0
831.9286	28.01	-2.97	118314.820	2.5	130331.780	1.5
831.9348	23.00	-8.85	9824.580	2.5	21841.450	2.5
831.9520	22.00	-2.47	29855.248	1.0	41871.870	2.0
831.9661	20.00	-.72	39335.322	1.0	51351.740	1.0
831.9722	28.01	-3.75	122270.050	3.5	134286.380	4.5
831.9734	22.00	-2.84	29855.248	1.0	41871.560	0.0
831.9790	22.00	-1.67	25643.695	3.0	37659.927	3.0
831.9859	20.00	-1.66	36554.749	1.0	48570.880	1.0
831.9859	20.00	-1.30	36554.749	1.0	48570.880	2.0
832.0160	40.00	-2.89	5484.711	0.0	17503.711	0.0
832.0172	22.00	-4.90	28828.510	2.0	40844.190	1.0
832.0173	26.00	-2.75	33412.706	3.0	45428.385	4.0
832.0226	17.00	-2.45	84988.480	1.5	97004.081	1.5
832.0269	28.01	-4.87	116838.330	1.5	128853.870	2.5
832.0309	17.00	-1.31	85244.330	.5	97259.811	1.5
832.0338	28.01	-3.73	119913.330	4.5	131928.770	4.5
832.0414	18.02	-4.05	240257.590	1.0	252272.920	1.0
832.0860	90.00	-1.72	7420.492	0.0	19438.481	0.0
832.0930	41.00	-2.09	9436.930	0.0	21454.817	0.0
832.1231	24.00	-1.08	45358.630	4.0	57372.780	4.0
832.1294	17.00	-1.02	88188.550	1.5	100202.610	1.5
832.1384	23.01	-6.60	25191.080	2.0	37205.010	3.0
832.1474	17.00	-1.70	88188.550	1.5	100202.350	.5
832.1917	10.01	-.14	290803.820	.5	302816.980	1.5
832.2000	74.00	-1.80	23793.968	0.0	35810.310	0.0
832.2229	29.01	-2.08	136133.060	4.0	148145.770	5.0
832.2624	28.01	-4.34	98561.220	2.5	110573.360	2.5
832.2950	24.00	-3.48	23386.350	3.0	35398.020	4.0
832.2956	20.00	-1.98	39340.080	2.0	51351.740	1.0
832.3150	27.00	-4.24	42434.230	2.5	54445.610	2.5
832.3192	22.00	-3.79	16817.190	1.0	28828.510	2.0
832.3407	28.01	-2.60	106283.160	2.5	118294.170	3.5
832.3825	22.00	-2.26	33700.874	4.0	45711.280	4.0
832.4273	22.00	-1.95	33680.130	3.0	45689.890	3.0
832.4405	23.00	-.51	25930.510	1.5	37940.080	.5
832.4422	28.00	-4.48	47030.148	3.0	59039.693	4.0
832.4557	13.02	-1.32	202003.580	4.5	214012.930	4.5
832.4557	13.02	.42	202003.580	4.5	214012.930	5.5
832.4557	13.02	.33	202003.580	3.5	214012.930	4.5
832.4620	18.02	-3.31	214346.700	1.0	226355.960	2.0
832.4650	26.00	-4.97	45964.944	2.0	57974.160	2.0
832.4690	57.00	-1.38	3468.273	0.0	15480.732	0.0
832.4765	24.01	-4.77	72716.910	4.5	84725.960	3.5
832.4911	26.02	.33	198606.370	2.0	210615.210	3.0
832.5022	26.01	-3.04	50142.930	2.5	62151.610	2.5
832.5299	15.00	-3.08	67113.820	2.5	79122.100	1.5
832.5306	24.00	-3.04	35934.020	6.0	47942.290	6.0
832.5445	28.01	-4.20	121437.680	5.5	133445.750	4.5
832.5653	25.01	-4.05	70150.390	1.0	82158.160	0.0
832.5920	28.00	-2.85	46522.965	2.0	58530.350	3.0
832.6013	22.00	-3.79	16875.190	2.0	28882.440	3.0
832.6048	24.00	-3.37	50654.760	2.0	62661.960	3.0
832.6139	9.01	-4.47	254541.410	4.0	266548.480	3.0
832.6298	29.01	-4.09	136160.930	5.0	148167.770	4.0
832.6587	7.00	-3.06	97805.810	1.5	109812.233	.5
832.6776	10.01	-3.22	291968.140	.5	303974.290	1.5
832.7063	26.00	-1.73	17726.985	2.0	29732.721	1.0
832.7345	25.01	-4.04	70150.390	1.0	82155.720	1.0
832.7546	28.00	-2.90	42767.900	3.0	54772.940	3.0
832.7721	22.00	-4.26	29912.262	3.0	41917.050	4.0
832.7907	18.01	-3.41	145668.800	1.5	157673.320	2.5
832.8385	20.02	-2.86	371059.950	3.0	383063.780	3.0
832.8440	42.01	-.18	28714.077	0.0	40721.128	0.0
832.8503	24.00	-4.21	35862.820	4.0	47866.480	4.0
832.8952	22.00	-3.72	35035.147	2.0	47038.160	3.0
832.9232	24.00	-.23	45358.630	4.0	57361.240	3.0
832.9279	28.00	-4.15	46522.965	2.0	58525.507	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
832.9426	22.00	-.63	29914.720	3.0	41917.050	4.0
832.9513	22.00	-2.58	29986.185	3.0	41988.390	3.0
832.9610	39.00	.35	32021.035	0.0	44026.399	0.0
832.9665	22.00	-4.16	18037.225	4.0	30039.211	5.0
832.9975	28.01	-4.51	122270.050	3.5	134271.590	4.5
832.9983	22.00	-2.49	25537.276	1.0	37538.804	2.0
833.0002	27.00	-4.31	42988.120	3.5	54989.620	3.5
833.0086	20.02	-1.69	371059.950	3.0	383061.330	2.0
833.0398	25.01	-4.16	43370.370	3.0	55371.300	3.0
833.0470	90.00	-1.42	7420.492	0.0	19424.617	0.0
833.0572	25.01	-4.77	70150.390	1.0	82151.070	2.0
833.0579	24.00	-4.51	35813.730	3.0	47814.400	3.0
833.0641	26.01	-2.66	50157.610	4.5	62158.190	4.5
833.0689	13.02	-3.69	202009.710	4.5	214010.220	4.5
833.0689	13.02	-1.96	202009.710	5.5	214010.220	4.5
833.0689	13.02	-2.05	202009.710	4.5	214010.220	3.5
833.0773	9.02	-.23	455768.720	.5	467769.110	.5
833.1071	25.02	-4.74	124823.900	4.5	136823.860	3.5
833.1078	24.00	-4.66	33113.270	4.0	45113.220	3.0
833.1245	23.00	-.45	26004.220	2.5	38003.930	1.5
833.1662	27.00	-4.07	16778.160	2.5	28777.270	3.5
833.1932	26.00	-.94	35379.189	5.0	47377.909	4.0
833.2106	18.00	-1.79	112138.980	2.0	124137.450	2.0
833.2217	18.00	-3.66	112138.980	2.0	124137.290	3.0
833.2294	17.01	-2.54	149798.300	2.0	161796.500	3.0
833.2440	40.00	-1.19	16938.079	0.0	28939.366	0.0
833.2557	15.00	-2.34	56090.450	1.5	68088.270	1.5
833.2773	21.00	-4.59	17025.360	1.5	29022.870	2.5
833.2877	18.02	-3.33	240791.660	2.0	252289.020	3.0
833.3213	17.00	-.84	88188.550	1.5	100185.426	2.5
833.3294	18.00	-.65	112138.980	2.0	124135.740	3.0
833.3307	17.00	-.13	72488.568	1.5	84485.309	1.5
833.3356	17.00	-1.80	88188.550	1.5	100185.220	1.5
833.3753	18.02	-3.44	240257.590	1.0	252253.690	2.0
833.3770	10.00	-4.74	158601.115	2.0	170597.190	2.0
833.3822	8.02	-2.15	438241.000	1.0	450237.000	2.0
833.3856	24.00	-3.40	35870.530	4.0	47866.480	4.0
833.3988	20.00	-2.83	36575.119	2.0	48570.880	1.0
833.3988	20.00	-1.82	36575.119	2.0	48570.880	2.0
833.3988	20.00	-.90	36575.119	2.0	48570.880	3.0
833.4349	22.00	-2.50	6598.749	2.0	18593.990	3.0
833.5149	6.00	-.41	61981.820	1.0	73975.910	0.0
833.5151	22.00	-3.75	29907.273	2.0	41901.360	1.0
833.5281	17.01	-1.70	137804.400	1.0	149798.300	2.0
833.5357	23.00	-1.79	21646.390	3.5	33640.180	4.5
833.5596	28.00	-2.44	42767.900	3.0	54761.346	4.0
833.5607	20.02	-1.42	350900.040	2.0	362893.470	2.0
833.6316	27.00	-1.84	42434.230	2.5	54426.640	1.5
833.6329	22.00	-3.72	30060.328	4.0	42052.720	3.0
833.6587	28.01	-4.01	122270.050	3.5	134262.070	3.5
833.6671	13.02	-2.99	202003.580	3.5	213995.480	3.5
833.6671	13.02	-1.44	202003.580	4.5	213995.480	3.5
833.6671	13.02	-1.56	202003.580	3.5	213995.480	2.5
833.6713	24.00	-3.19	50654.760	2.0	62646.600	2.0
833.6914	26.01	-2.67	87340.400	5.5	99331.950	4.5
833.7026	20.02	-1.31	328588.760	3.0	340580.150	3.0
833.7206	23.00	-9.89	14514.750	1.5	26505.880	2.5
833.7519	22.00	-4.09	16961.420	3.0	28952.100	4.0
833.7714	29.01	-1.64	137212.700	1.0	149203.100	0.0
833.7725	14.00	-3.11	48020.074	1.0	60010.458	1.0
833.8009	74.00	-1.95	19680.435	0.0	31673.706	0.0
833.8131	27.00	-3.44	44555.710	1.5	56545.510	2.5
833.8330	14.00	-1.90	47284.061	1.0	59273.575	1.0
833.8368	25.00	-4.57	35165.050	1.5	47154.510	1.5
833.8368	22.00	-4.03	34078.580	3.0	46068.040	4.0
833.8388	18.01	-.24	189040.870	1.5	201030.300	.5
833.8395	18.01	-4.41	199679.760	2.5	211669.180	2.5
833.8676	22.00	-2.92	33700.874	4.0	45689.890	3.0
833.8701	24.01	-4.97	55023.300	2.5	67012.280	2.5
833.8816	22.00	-3.77	29768.655	2.0	41757.470	3.0
833.8840	24.01	-4.55	55081.700	1.5	67070.480	1.5
833.9063	10.01	-.21	292451.780	1.5	304440.240	.5
833.9425	26.00	-1.49	35767.546	4.0	47755.485	3.0
833.9522	8.02	-1.78	438303.200	2.0	450291.000	1.0
833.9675	16.01	-2.68	118146.500	1.5	130134.080	2.5
833.9682	28.01	-.69	121456.320	1.5	133443.890	2.5
833.9730	26.00	-4.67	43137.472	3.0	55124.974	3.0
834.0410	28.00	-4.86	30619.440	2.0	42605.964	3.0
834.0775	28.01	-4.14	122270.050	3.5	134256.050	2.5
834.0802	24.01	-2.86	53271.070	2.5	65257.030	3.5
834.0838	16.01	-4.12	140318.800	3.5	152304.710	3.5
834.1260	26.00	-4.30	38995.717	1.0	50981.020	0.0
834.1582	29.01	-1.96	136160.930	5.0	148145.770	6.0
834.1582	29.01	-3.77	136160.930	5.0	148145.770	5.0
834.1867	24.00	-4.87	36577.730	4.0	48562.160	4.0
834.1972	23.00	-.47	26122.040	3.5	38106.320	2.5
834.2216	26.00	-3.63	23783.617	5.0	35767.546	4.0
834.2219	10.00	-4.67	158601.115	2.0	170585.040	1.0
834.2236	28.01	-4.46	116838.330	1.5	128822.230	1.5
834.2243	9.02	-4.26	441385.880	1.5	453369.770	1.5
834.2285	24.00	-3.92	50662.770	1.0	62646.600	2.0
834.2347	18.01	-2.63	199679.760	2.5	211663.500	3.5
834.2605	10.01	-1.17	279218.660	2.5	291202.030	3.5
834.2654	27.00	-.63	41528.530	5.5	53511.830	5.5
834.2689	9.01	.20	278159.210	3.0	290142.460	2.0
834.2850	26.00	-1.69	40231.312	2.0	52214.330	1.0
834.3002	28.01	-3.84	122270.050	3.5	134252.850	3.5
834.3051	26.01	-4.62	50142.930	2.5	62125.660	1.5
834.3294	25.00	-4.56	56356.210	3.5	68338.590	3.5
834.3503	24.00	-4.39	35884.400	5.0	47866.480	4.0
834.3831	8.01	-.34	245816.290	1.5	257797.900	1.5
834.3935	17.00	-1.63	88188.550	1.5	100170.010	2.5
834.3984	27.00	-4.46	43425.710	2.5	55407.100	1.5
834.4075	18.02	-3.90	240291.660	2.0	252272.920	1.0
834.4250	72.00	-1.55	15566.901	0.0	27551.202	0.0
834.4430	39.00	-1.17	16050.847	0.0	28034.889	0.0
834.4443	26.00	-4.52	45833.240	4.0	57813.970	3.0
834.4688	15.00	-4.25	66360.120	1.5	78340.500	2.5
834.4946	22.00	-3.48	30039.211	5.0	42019.220	6.0
834.5174	18.01	-3.12	143371.350	1.5	155351.030	1.5
834.5229	12.00	-4.27	47957.028	2.0	59936.630	1.0
834.5245	28.01	-3.69	121190.340	4.5	133169.920	3.5
834.5551	9.00	-.59	116143.579	.5	128122.719	1.5
834.5593	27.00	-3.12	33945.900	2.5	45924.980	3.5
834.5789	22.00	-2.56	30039.211	5.0	42018.010	5.0
834.5823	23.00	-4.31	20789.130	2.5	32767.880	1.5
834.5855	14.00	-4.52	50566.397	1.0	62545.100	1.0
834.5880	28.00	-4.06	47139.392	2.0	59118.060	2.0
834.5927	28.02	-4.25	121412.200	2.0	133390.800	3.0
834.6080	41.00	-1.90	10969.423	0.0	22951.096	0.0
834.6093	26.00	-2.60	39625.784	4.0	51604.146	3.0
834.6107	12.00	-2.16	47957.028	2.0	59935.370	2.0
834.6107	12.00	-1.08	47957.028	2.0	59935.370	3.0
834.6107	12.00	-3.58	47957.028	2.0	59935.370	3.0
834.6119	12.00	-3.53	47957.045	3.0	59935.370	2.0
834.6119	12.00	-2.20	47957.045	3.0	59935.370	3.0
834.6119	12.00	-2.40	47957.045	3.0	59935.370	3.0
834.6119	12.00	-.92	47957.045	3.0	59935.370	4.0
834.6126	12.00	-1.25	47957.056	1.0	59935.370	2.0
834.6206	24.00	-4.94	35807.900	2.0	47786.100	2.0
834.6206	10.01	-1.71	280473.580	1.5	292451.780	1.5
834.6530	57.00	-1.21	4032.876	0.0	16013.903	0.0
834.6740	92.00	-1.51	5887.999	0.0	17868.724	0.0
834.6816	28.00	-2.01	44206.185	3.0	56183.510	4.0
834.7014	27.00	-3.97	44568.470	2.5	56545.510	2.5
834.7154	24.01	-4.19	53566.220	3.5	65543.060	3.5
834.8680	62.01	-1.63	12743.888	0.0	24721.829	0.0
834.8759	74.00	-2.16	20890.298	0.0	32868.126	0.0
834.8834	22.00	-2.95	16817.190	1.0	28791.620	1.0
834.8862	25.00	-4.39	50931.420	2.5	62905.810	2.5
834.9015	21.00	-3.16	33151.400	4.5	45125.570	4.5
834.9050	26.00	-5.84	7376.762	4.0	19350.882	5.0
834.9573	20.02	-1.98	328606.780	2.0	340580.150	3.0
834.9730	64.00	-1.67	7339.834	0.0	19316.269	0.0
835.0040	41.00	-2.67	8307.725	0.0	20283.716	0.0
835.0186	8.01	-2.78	253789.510	.5	265762.000	1.5
835.0263	28.01	.44	92325.850	3.5	104298.230	4.5
835.0270	24.00	-3.98	35813.730	3.0	47786.100	2.0
835.0302	22.00	-4.14	29986.185	3.0	41958.510	2.0
835.0383	14.00	-3.43	51612.012	0.0	63584.220	1.0
835.0887	26.00	-4.12	45726.104	5.0	57697.590	4.0
835.1150	42.00	-1.17	25810.406	0.0	37784.805	0.0
835.1366	17.01	-3.10	150019.000	0.0	161989.800	1.0
835.1498	28.01	-1.17	93528.440	3.5	105499.050	3.5
835.1603	25.00	-4.59	23719.520	1.5	35689.980	1.5
835.1756	26.01	-4.11	50187.950	3.5	62158.190	4.5
835.1833	8.01	-2.99	253791.870	1.5	265762.000	1.5
835.2238	28.01	-3.77	117872.780	2.5	129842.330	2.5
835.2321	25.02	-4.20	121117.140	3.5	133086.570	4.5
835.2621	17.01	-1.20	119799.000	2.0	131768.000	2.0
835.2940	44.00	.01	32021.035	0.0	43992.868	0.0
835.3124	24.00	-4.34	48661.590	3.0	60629.870	2.0
835.3150	22.00	-2.51	6556.828	1.0	18525.070	2.0
835.3466	27.00	-2.90	41968.890	2.5	53936.680	2.5
835.3571	27.00	-4.92	18775.010	.5	30742.650	.5
835.3580	26.00	-4.36	40052.080	2.0	52019.706	1.0
835.3580	46.00	-.14	40167.445	0.0	52138.360	0.0
835.3719	14.00	-2.33	50189.389	2.0	62156.816	2.0
835.3780	25.00	-2.99	44523.450	3.5	56490.790	2.5
835.4017	13.01	.63	121480.300	3.0	133447.300	4.0
835.4353	28.00	-3.49	44206.185	3.0	56172.704	3.0
835.4457	24.00	-.47	48661.590	3.0	60627.960	4.0
835.4729	27.00	-1.12	43199.650	2.5	55165.630	2.5
835.4962	26.00	-1.65	47960.973	4.0	59926.620	5.0
835.5159	26.00	-3.87	33095.922	4.0	45061.287	3.0
835.5288	28.01	-3.86	104503.220	2.5	116468.400	1.5
835.5333	26.00	-4.66	46744.975	3.0	58710.090	3.0
835.5588	28.01	-3.95	101357.200	4.5	113321.950	4.5
835.5695	22.00	-2.91	29907.273	2.0	41871.870	2.0
835.5707	28.01	-.99	106007.890	2.5	117972.470	3.5
835.5745	28.00	-4.97	42767.900	3.0	54732.425	2.0
835.5833	24.00	-4.53	35807.900	2.0	47772.300	1.0
835.5910	6.00	-4.21	75253.970	1.0	87218.260	2.0
835.6014	23.00	-4.05	25111.500	4.5	37075.640	4.5
835.6350	26.01	-3.84	50187.950	3.5	62151.610	2.5
835.6740	8.02	-.36	365723.900	1.0	377687.000	2.0
835.6783	25.01	-4.71	54938.100	1.0	66901.140	2.0
835.6817	6.00	-3.72	75255.270	2.0	87218.260	2.0
835.7160	29.01	-2.22	135135.600	1.0	147098.100	0.0
835.7369	13.01	-1.92	132819.700	3.0	144781.900	3.0
835.7488	18.02	-3.08	240291.660	2.0	252253.690	2.0
835.7509	13.01	-1.01	132819.900	2.0	144781.900	3.0
835.7684	22.00	-4.75	28882.440	3.0	40844.190	3.0
835.7935	28.01	-4.52	116838.330	1.5	128799.720	.5
835.7998	9.00	-4.59	125637.690	2.5	137598.990	3.5
835.8117	25.00	-4.65	38120.180	4.5	50081.310	5.5
835.8531	26.00	-3.44	24118.815	4.0	36079.353	3.0
835.8781	21.00	-3.98	33056.190	3.5	45016.370	3.5
835.8837	13.01	-.44	121480.300	3.0	133440.400	3.0
835.8923	22.00	-1.73	25699.950	2.0	37659.927	3.0
835.8935	10.01	-.37	291968.140	.5	303928.100	.5
835.9130	26.02	-2.94	186378.940	4.0	198338.620	4.0
835.9181	22.00	-3.24	29912.262	3.0	41871.870	2.0
835.9193	24.00	-4.87	48558.570	2.0	60518.160	3.0
835.9221	26.02	.48	198655.660	3.0	210615.210	3.0
835.9257	13.01	.47	121480.900	2.0	133440.400	3.0
835.9375	25.00	-4.39	50341.300	4.5	62300.630	4.5
835.9522	24.00	-2.17	21856.940	3.0	33816.060	4.0
835.9536	15.00	-3.42	68377.200	3.5	80336.300	2.5
836.0221	26.02	-3.47	186378.940	4.0	198337.060	3.0
836.0235	17.01	-.40	119809.900	3.0	131768.000	2.0
836.0276	18.01	-.83	194861.270	2.5	206819.310	3.5
836.0381	10.01	-2.14	282375.330	1.5	294333.220	.5
836.0410	28.01	-1.88	107142.210	1.5	119100.060	1.5
836.0486	9.02	-4.77	441385.880	1.5	453343.620	2.5
836.0527	22.00	-4.83	30060.328	4.0	42018.010	5.0
836.0557	26.02	-3.01	186378.940	4.0	198336.580	5.0
836.0641	22.00	-4.75	31190.631	2.0	43148.150	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
836.0784	26.00	-2.23	36079.353	3.0	48036.667	2.0
836.0899	22.00	-2.83	29914.720	3.0	41871.870	2.0
836.0965	17.00	-2.00	84988.480	1.5	96945.536	2.5
836.0969	23.00	-5.99	14548.830	2.5	26505.880	2.5
836.1770	2.00	-2.17	183237.000	0.0	195196.190	0.0
836.1843	17.01	-.74	119799.000	2.0	131754.800	1.0
836.1920	25.01	-4.14	54938.100	1.0	66893.790	1.0
836.1934	22.00	-2.95	16817.190	1.0	28772.860	0.0
836.1948	28.01	-.04	94067.140	1.5	106022.790	.5
836.2193	17.01	-2.74	149952.400	1.0	161907.700	2.0
836.2613	13.01	-1.98	121480.300	3.0	133435.000	2.0
836.2732	16.01	-3.04	115870.400	1.5	127824.930	.5
836.2927	24.00	-4.29	48661.590	3.0	60615.840	3.0
836.2956	14.01	-1.59	111184.720	.5	123138.930	1.5
836.3033	13.01	-.44	121480.900	2.0	133435.000	2.0
836.3060	25.00	-2.81	50341.300	4.5	62295.360	5.5
836.3075	18.01	-.45	189654.780	2.5	201608.820	3.5
836.3088	27.00	-3.93	41982.660	1.5	53936.680	2.5
836.3243	13.01	.30	121481.200	1.0	133435.000	2.0
836.3578	22.00	-2.79	16875.190	2.0	28828.510	2.0
836.3618	14.00	-3.93	50566.397	1.0	62519.660	2.0
836.4012	12.02	-1.34	548034.400	0.0	559987.100	1.0
836.4171	22.00	-1.63	6742.757	4.0	18695.230	4.0
836.4327	9.01	-4.17	254546.490	2.0	266498.740	1.0
836.4397	18.01	-3.78	190592.170	1.5	202544.320	2.5
836.4698	24.00	-3.72	21810.840	1.0	33762.560	0.0
836.4796	24.00	-3.73	35862.820	4.0	47814.400	3.0
836.5508	14.00	-2.98	50499.838	2.0	62450.400	1.0
836.5608	20.02	-2.07	370901.880	2.0	382852.300	2.0
836.5639	39.00	-.64	24358.571	0.0	36312.230	0.0
836.5642	26.00	-2.19	26224.961	3.0	38175.332	3.0
836.6476	20.02	-3.21	370903.120	3.0	382852.300	2.0
836.6595	23.00	-4.97	20789.130	2.5	32738.140	1.5
836.6630	22.00	-4.40	18037.225	4.0	29986.185	3.0
836.7011	18.00	-3.78	107496.463	1.0	119444.880	2.0
836.7442	15.01	-1.80	111508.500	0.0	123456.300	1.0
836.7855	28.01	-4.26	118803.820	6.5	130751.030	5.5
836.7918	15.00	-1.70	65787.380	3.5	77734.500	2.5
836.8013	20.00	-2.84	35818.713	3.0	47765.697	3.0
836.8444	14.02	-3.51	242639.380	5.0	254585.750	5.0
836.8444	14.02	-3.62	242639.380	5.0	254585.750	5.0
836.8444	14.02	-1.79	242639.380	6.0	254585.750	5.0
836.8723	22.00	-3.89	29971.078	4.0	41917.050	4.0
836.8917	22.00	-4.81	29768.655	2.0	41714.350	2.0
836.8934	25.00	-3.81	51638.170	2.5	63583.840	1.5
836.9039	28.01	-2.04	106369.300	1.5	118314.820	2.5
836.9109	14.02	-1.97	242639.380	4.0	254584.800	3.0
836.9109	14.02	-3.62	242639.380	4.0	254584.800	4.0
836.9109	14.02	-1.87	242639.380	5.0	254584.800	4.0
836.9190	20.00	-1.57	36731.615	1.0	48676.920	2.0
836.9190	20.00	-3.87	36731.615	1.0	48676.920	1.0
836.9249	14.02	-1.88	242639.380	5.0	254584.600	4.0
836.9249	14.02	-3.52	242639.380	4.0	254584.600	4.0
836.9550	45.00	.13	33714.843	0.0	45662.917	0.0
836.9593	16.01	-2.02	119242.130	1.5	131186.860	2.5
836.9670	24.00	-4.29	33762.740	6.0	45707.360	6.0
836.9733	27.00	-2.22	40827.770	1.5	52772.300	2.5
836.9817	27.00	-5.94	13795.520	2.5	25739.930	2.5
837.0230	40.00	-2.00	5807.341	0.0	17754.444	0.0
837.1043	14.00	-4.12	50602.440	0.0	62545.100	1.0
837.1390	22.00	-4.17	31205.985	3.0	43148.150	3.0
837.1422	28.01	-3.18	121227.800	2.5	133169.920	3.5
837.1492	10.02	-4.23	398192.700	1.0	410134.720	1.0
837.1715	17.00	-3.74	84988.480	1.5	96930.181	.5
837.1962	25.00	-3.55	50359.280	3.5	62300.630	4.5
837.2109	10.01	.14	292033.150	2.5	303974.290	1.5
837.2165	24.00	-4.77	24093.160	2.0	36034.220	3.0
837.2325	12.00	-3.61	47957.028	2.0	59897.860	1.0
837.2325	12.00	-4.09	47957.028	2.0	59897.860	2.0
837.2337	12.00	-3.17	47957.045	3.0	59897.860	2.0
837.2344	12.00	-3.92	47957.056	1.0	59897.860	1.0
837.2344	12.00	-3.79	47957.056	1.0	59897.860	0.0
837.2662	28.00	-3.43	43933.428	2.0	55873.780	2.0
837.2810	27.00	-1.62	32841.990	4.5	44782.130	4.5
837.3287	23.00	-4.25	27187.770	2.5	39127.230	1.5
837.3434	24.00	-3.00	37883.340	2.0	49822.590	2.0
837.3876	28.01	-2.81	115956.710	2.5	127895.330	3.5
837.3909	20.00	-1.92	35818.713	3.0	47757.286	2.0
837.4136	28.01	-2.57	122270.050	3.5	134208.300	2.5
837.4389	10.02	-4.13	398196.830	2.0	410134.720	1.0
837.4536	23.00	-4.81	20830.200	.5	32767.880	1.5
837.4759	64.00	-1.61	10808.108	0.0	22748.750	0.0
837.4900	9.02	-3.53	441406.460	3.5	453343.620	2.5
837.4978	14.00	-3.45	47284.061	1.0	59221.110	0.0
837.5300	18.01	-2.30	189414.960	3.5	201351.550	2.5
837.5489	18.01	-.72	194883.000	3.5	206819.320	4.5
837.5493	26.00	-4.74	46888.494	2.0	58824.810	2.0
837.5496	18.01	-2.26	194883.000	3.5	206819.310	3.5
837.5854	10.01	-.89	290371.950	2.5	302307.750	2.5
837.5943	17.00	.46	71958.363	2.5	83894.037	3.5
837.6086	18.01	-2.90	143107.600	2.5	155043.070	2.5
837.6149	25.00	-4.18	50359.280	3.5	62294.660	3.5
837.6472	28.01	-2.77	121800.340	1.5	133735.260	2.5
837.6521	24.00	-.35	48558.570	2.0	60493.420	3.0
837.6521	8.01	.23	246028.950	3.5	257963.800	2.5
837.6921	26.01	-3.59	49101.090	.5	61035.370	.5
837.7221	22.00	-2.08	18037.225	4.0	29971.078	4.0
837.7259	8.02	-1.56	438303.200	2.0	450237.000	2.0
837.7469	28.02	-4.43	121566.700	1.0	133500.200	2.0
837.7790	64.00	-1.56	11211.395	0.0	23147.717	0.0
837.7829	22.00	-1.49	6661.003	3.0	18593.990	3.0
837.8080	16.01	-2.84	115892.300	.5	127824.930	.5
837.8240	22.00	-3.85	29971.078	4.0	41903.480	5.0
837.8361	27.00	-1.75	33173.360	3.5	45105.590	3.5
837.8556	28.00	-2.61	42767.900	3.0	54699.852	3.0
837.8908	23.00	-5.18	14548.830	2.5	26480.280	3.5
837.9224	24.00	-4.28	35862.820	4.0	47793.820	5.0
837.9319	22.00	-3.43	29986.185	3.0	41917.050	4.0
837.9449	27.00	-2.28	33945.900	2.5	45876.580	2.5
837.9727	20.00	-4.82	35835.413	2.0	47765.697	3.0
837.9765	25.00	-4.62	56356.210	3.5	68286.440	4.5
837.9772	25.00	-4.50	45156.110	2.5	57086.330	2.5
837.9800	57.00	-.38	19035.175	0.0	30968.634	0.0
838.0004	17.00	-1.21	88272.720	.5	100202.610	1.5
838.0060	24.00	-4.17	24282.340	4.0	36212.150	4.0
838.0060	72.00	-.66	28391.447	0.0	40324.536	0.0
838.0187	17.00	-1.66	88272.720	.5	100202.350	.5
838.0243	10.01	-3.01	294333.220	.5	306262.770	1.5
838.0545	24.00	-2.63	37883.340	2.0	49812.460	3.0
838.0615	28.01	-2.63	121240.900	3.5	133169.920	3.5
838.0784	25.00	-2.23	33825.490	2.5	45754.270	3.5
838.1288	22.00	-3.24	30060.328	4.0	41988.390	3.0
838.1374	23.00	-4.84	27470.880	3.5	39398.820	3.5
838.1761	24.01	-4.79	39742.360	2.5	51669.750	2.5
838.1860	92.00	-1.18	6936.547	0.0	18867.073	0.0
838.2049	20.02	-.81	359520.600	2.0	371447.580	1.0
838.2080	71.00	-2.83	7420.492	0.0	19350.705	0.0
838.2243	26.00	-6.08	7985.783	2.0	19912.486	2.0
838.2512	22.00	-1.51	6598.749	2.0	18525.070	2.0
838.2709	28.01	-3.46	122047.290	3.5	133973.330	2.5
838.2715	22.00	-1.66	6556.828	1.0	18482.860	1.0
838.2801	28.01	-4.78	120002.860	3.5	131928.770	4.5
838.2807	8.01	-.44	245767.800	.5	257693.700	.5
838.2807	17.01	-2.23	119842.100	1.0	131768.000	2.0
838.2870	74.00	-3.69	9436.930	0.0	21366.019	0.0
838.2980	72.00	-1.36	22745.421	0.0	34674.353	0.0
838.3047	26.01	-4.75	50157.610	4.5	62083.170	4.5
838.3229	17.01	-.96	119842.100	1.0	131767.400	0.0
838.3257	18.01	-1.64	200151.640	1.5	212076.900	2.5
838.3286	28.01	-4.50	119909.720	1.5	131834.940	2.5
838.3335	23.00	-3.67	20812.990	1.5	32738.140	1.5
838.3549	17.00	-1.66	85917.937	.5	97842.783	1.5
838.3686	25.01	-3.79	70231.070	2.0	82155.720	1.0
838.3736	10.01	-2.66	294086.490	1.5	306011.070	.5
838.3841	28.01	-4.18	67031.020	.5	78955.450	1.5
838.4242	25.01	-3.95	55371.300	3.0	67295.160	4.0
838.4636	15.00	-2.61	68377.200	3.5	80300.500	3.5
838.4643	24.00	-3.29	35870.530	4.0	47793.820	5.0
838.4718	18.00	-3.24	107289.747	2.0	119212.930	3.0
838.4896	23.00	-6.92	14514.750	1.5	26437.680	1.5
838.5072	27.00	-2.53	43242.950	2.5	55165.630	2.5
838.5598	28.00	-2.19	43654.974	3.0	55576.905	3.0
838.5951	25.00	-4.84	50373.230	2.5	62294.660	3.5
838.6000	24.00	-4.44	52914.940	6.0	64836.300	6.0
838.6118	14.00	-3.67	50499.838	2.0	62421.030	3.0
838.6162	15.00	-3.01	68088.270	1.5	80009.400	.5
838.6239	22.00	-2.77	16961.420	3.0	28882.440	3.0
838.6312	28.00	-3.86	42653.723	2.0	54574.640	1.0
838.6464	17.01	-1.12	137877.600	2.0	149798.300	2.0
838.6957	25.01	-3.92	70231.070	2.0	82151.070	2.0
838.7266	9.02	-3.15	430374.750	2.5	442294.310	1.5
838.7769	62.01	-1.55	13389.148	0.0	25311.269	0.0
838.7780	26.00	-1.71	17550.180	3.0	29469.010	2.0
838.7984	27.00	-2.35	40345.950	2.5	52264.490	1.5
838.8137	28.00	-4.39	42656.317	1.0	54574.640	1.0
838.8167	10.01	-3.95	301801.090	3.5	313719.370	2.5
838.8315	27.00	-4.43	42434.230	2.5	54352.300	3.5
838.8435	10.01	-2.55	301801.090	3.5	313718.990	3.5
838.8667	10.01	-4.46	306243.420	2.5	318160.990	3.5
838.8695	22.00	-3.97	15108.121	3.0	27025.652	4.0
838.8898	20.00	-2.94	35835.413	2.0	47752.655	1.0
838.9160	27.00	-2.07	42988.120	3.5	54904.990	2.5
838.9170	92.00	-1.51	5887.999	0.0	17808.129	0.0
838.9287	24.00	-4.55	52885.390	5.0	64802.080	5.0
838.9320	42.00	-.12	28794.735	0.0	40714.652	0.0
838.9357	28.01	-4.88	118774.760	.5	130691.350	1.5
838.9410	40.00	-1.76	4839.451	0.0	16759.240	0.0
838.9470	22.00	-2.65	16875.190	2.0	28791.620	1.0
838.9831	22.00	-4.73	29907.273	2.0	41823.190	3.0
839.0223	19.00	-2.89	21026.580	.5	32941.940	1.5
839.0392	18.00	-4.31	112138.980	2.0	124054.100	3.0
839.1441	19.00	-3.19	21026.580	.5	32940.210	.5
839.1695	25.01	-4.63	70231.070	2.0	82144.340	3.0
839.1765	14.01	-1.99	111184.720	.5	123097.890	.5
839.1794	8.01	-3.23	253791.870	1.5	265705.000	2.5
839.2075	26.01	-3.26	50212.930	2.5	62125.660	1.5
839.2097	17.01	-1.06	119842.100	1.0	131754.800	1.0
839.2118	18.00	-1.87	112138.980	2.0	124051.650	2.0
839.2238	17.00	-2.04	88272.720	.5	100185.220	1.5
839.2266	18.00	-.73	112138.980	2.0	124051.440	3.0
839.2294	9.01	-4.63	254541.460	3.0	266453.880	2.0
839.2681	23.00	-5.00	20812.990	1.5	32724.860	.5
839.2853	17.00	-3.01	85442.430	1.5	97354.057	1.5
839.2871	27.00	-2.39	39649.160	3.5	51560.760	2.5
839.3673	28.00	-3.30	40361.254	3.0	52271.716	2.0
839.4117	28.00	-2.76	47208.228	1.0	59118.060	2.0
839.4408	24.00	-3.24	35884.400	5.0	47793.820	5.0
839.4676	29.01	-3.42	136270.260	4.0	148179.300	5.0
839.4676	29.01	-3.80	136270.260	4.0	148179.300	4.0
839.4746	28.01	-4.97	88582.010	1.5	100490.950	1.5
839.5077	22.00	-3.58	29914.720	3.0	41823.190	3.0
839.5148	25.00	-4.77	51515.630	2.5	63424.000	3.5
839.5169	28.01	-4.28	118892.990	5.5	130801.330	4.5
839.5261	24.00	-4.35	24303.940	3.0	36212.150	4.0
839.5314	14.00	-2.40	48102.323	2.0	60010.458	1.0
839.5317	25.00	-3.67	51638.170	2.5	63546.300	3.5
839.5451	23.00	-3.15	20830.200	.5	32738.140	1.5
839.5455	16.00	-1.98	67876.685	4.0	79784.620	3.0
839.5726	9.01	-4.43	254546.330	3.0	266453.880	2.0
839.5740	18.01	-.37	189437.690	.5	201345.220	1.5
839.5804	25.00	-1.82	41403.930	2.5	53311.370	1.5
839.6114	17.01	-1.16	141350.000	3.0	153257.000	2.0
839.6191	26.01	-3.97	60445.280	2.5	72352.170	3.5
839.6438	24.00	-3.31	36552.130	3.0	48458.670	2.0
839.6510	22.00	-4.36	29912.262	3.0	41818.700	4.0
839.6573	18.01	-3.64	199679.760	2.5	211586.110	2.5
839.6818	22.00	-1.66	6556.828	1.0	18462.830	0.0
839.6819	14.00	-2.55	49399.670	1.0	61305.670	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
839.7529	17.00	-2.53	85244.330	.5	97149.323	.5
839.7687	28.01	-4.71	87538.090	3.5	99442.860	4.5
839.7949	14.00	-1.77	45293.629	2.0	57198.027	3.0
839.8103	9.02	-.81	430374.750	2.5	442278.930	2.5
839.8244	22.00	-4.41	29914.720	3.0	41818.700	4.0
839.8300	64.00	-1.61	7339.834	0.0	19247.006	0.0
839.8406	22.01	-4.68	53554.900	2.5	65458.650	3.5
839.8505	18.01	-1.80	203007.690	1.5	214911.300	2.5
839.8890	22.00	-2.33	25635.740	1.0	37538.804	2.0
839.9302	28.01	-4.40	103663.500	1.5	115565.980	2.5
839.9359	29.01	-3.86	118484.000	3.0	130386.400	2.0
839.9359	18.00	-1.35	112138.980	2.0	124041.380	2.0
839.9486	18.00	-2.30	112138.980	2.0	124041.200	1.0
839.9599	27.00	-3.44	43263.570	1.5	55165.630	2.5
840.0234	24.00	-3.88	39158.630	4.0	51059.790	4.0
840.0495	22.00	-3.55	27740.190	2.0	39640.980	3.0
840.0566	25.00	-1.32	44288.760	4.5	56189.450	4.5
840.0672	24.00	-4.81	33762.740	6.0	45663.280	5.0
840.0707	26.00	-4.42	45913.480	3.0	57813.970	3.0
840.0968	24.00	-4.50	36558.550	2.0	48458.670	2.0
840.1033	28.00	-2.13	42767.900	3.0	54667.928	4.0
840.1265	29.01	-2.11	134675.600	2.0	146575.300	2.0
840.1411	26.00	-3.13	20037.815	0.0	31937.308	1.0
840.1632	24.00	-4.67	23498.840	4.0	35398.020	4.0
840.1689	26.00	-2.69	35856.386	2.0	47755.485	3.0
840.2324	22.00	-2.87	27887.740	3.0	39785.940	4.0
840.2478	22.00	-2.05	18141.229	5.0	30039.211	5.0
840.2516	22.00	-1.97	25926.820	4.0	37824.748	4.0
840.2550	74.00	-2.34	19438.462	0.0	31339.611	0.0
840.2625	16.00	-3.41	67886.847	2.0	79784.620	3.0
840.2804	23.00	-1.13	26344.940	4.5	38242.460	3.5
840.2811	29.01	-4.81	136270.260	4.0	148167.770	4.0
840.2896	29.01	-.92	110084.290	1.0	121981.680	2.0
840.2986	14.00	-4.89	48020.074	1.0	59917.336	2.0
840.3051	26.01	-4.86	72429.740	.5	84326.910	1.5
840.3243	22.00	-4.89	31184.021	1.0	43080.920	2.0
840.3555	17.00	-3.14	85442.430	1.5	97338.887	2.5
840.4187	16.00	-2.56	67889.058	3.0	79784.620	3.0
840.4316	20.02	-3.34	370903.120	3.0	382798.500	4.0
840.4507	22.00	-3.00	25643.695	3.0	37538.804	2.0
840.4548	8.01	-.04	245902.850	2.5	257797.900	1.5
840.4838	23.00	-3.29	25130.960	2.5	37025.600	3.5
840.5240	58.01	-3.10	2339.068	0.0	14236.408	0.0
840.5616	10.01	-1.20	292546.700	.5	304440.240	.5
840.5722	25.00	-3.65	51530.610	3.5	63424.000	3.5
840.5730	10.00	-4.73	158795.992	1.0	170689.370	0.0
840.5906	25.01	-3.80	55115.800	2.0	67008.930	3.0
840.5941	28.01	-2.25	122080.250	2.5	133973.330	2.5
840.6199	17.00	-4.56	83894.037	3.5	95786.752	2.5
840.6217	23.00	-2.30	20767.570	3.5	32660.260	2.5
840.6344	18.01	-4.96	199679.760	2.5	211572.270	1.5
840.6393	10.01	-.31	290583.170	1.5	302475.610	.5
840.6591	16.01	-1.03	119294.700	2.5	131186.860	2.5
840.6641	22.00	-4.40	28952.100	4.0	40844.190	3.0
840.6648	26.01	-3.68	58631.650	4.5	70523.730	3.5
840.7213	28.01	.53	94729.250	2.5	106620.530	3.5
840.7510	25.00	-3.95	51014.950	3.5	62905.810	2.5
840.7892	25.00	-4.70	50863.050	1.5	62753.370	2.5
840.7914	22.00	-4.50	31190.631	2.0	43080.920	2.0
840.7914	18.01	-4.69	147503.020	1.5	159393.310	1.5
840.8205	18.00	.08	95399.870	1.0	107289.747	2.0
840.8210	23.00	-.82	26352.590	2.5	38242.460	3.5
840.8387	20.02	-3.47	370901.880	2.0	382791.500	3.0
840.8557	26.02	-3.45	190393.270	1.0	202282.650	2.0
840.8932	23.00	-7.11	14548.830	2.5	26437.680	1.5
840.8932	27.00	-.78	42269.320	4.5	54158.170	4.5
840.9264	20.02	-4.81	370903.120	3.0	382791.500	3.0
840.9544	26.00	-4.99	42859.756	2.0	54747.740	1.0
840.9781	25.00	-1.64	41403.930	2.5	53291.580	2.5
840.9901	27.00	-1.50	44658.030	1.5	56545.510	2.5
841.0382	25.01	-3.87	43484.500	2.0	55371.300	3.0
841.0417	28.01	-3.64	122086.580	3.5	133973.330	2.5
841.0522	20.00	-2.49	36547.688	0.0	48434.290	1.0
841.1033	28.01	-4.94	121115.590	1.5	133001.470	.5
841.1111	24.01	-3.74	53271.070	2.5	65156.840	2.5
841.1171	22.00	-3.20	29986.185	3.0	41871.870	2.0
841.1196	25.00	-4.93	51638.170	2.5	63523.820	2.5
841.1415	28.01	-1.54	109675.720	.5	121561.060	.5
841.1529	15.00	-3.21	66544.120	2.5	78429.300	3.5
841.1698	26.02	-3.41	190397.710	2.0	202282.650	2.0
841.1882	18.01	.01	184191.710	.5	196076.390	1.5
841.2285	22.00	-1.36	6598.749	2.0	18482.860	1.0
841.2361	14.00	-2.38	50566.397	1.0	62450.400	1.0
841.2491	28.01	-3.25	120044.950	4.5	131928.770	4.5
841.2555	26.02	-2.09	186454.890	5.0	198338.620	4.0
841.3199	20.02	-3.21	370901.880	2.0	382784.700	3.0
841.3213	10.01	-.87	280768.520	.5	292651.320	1.5
841.3333	20.02	.45	371274.480	2.0	383157.110	3.0
841.3348	23.00	-8.84	14514.750	1.5	26397.360	.5
841.3999	26.02	-2.18	186454.890	5.0	198336.580	5.0
841.4000	40.00	-1.89	5484.711	0.0	17369.665	0.0
841.4049	26.00	-2.08	36079.353	3.0	47960.973	4.0
841.4077	20.02	-1.91	370903.120	3.0	382784.700	3.0
841.4311	23.00	-1.77	21646.390	3.5	33527.640	2.5
841.4480	26.00	-4.80	42532.729	3.0	54413.740	3.0
841.4488	29.01	-2.06	134675.600	2.0	146556.600	3.0
841.4708	15.00	-3.04	56090.450	1.5	67971.140	.5
841.5521	20.00	-2.62	36554.749	1.0	48434.290	1.0
841.5521	20.00	-2.26	36554.749	1.0	48434.290	2.0
841.5720	18.01	-.48	172213.800	1.5	184093.060	.5
841.5730	73.00	-3.35	9920.875	0.0	21803.385	0.0
841.5919	22.00	-4.86	28791.620	1.0	40670.600	2.0
841.5996	26.02	-3.42	186454.890	5.0	198333.760	6.0
841.6372	26.02	-3.63	190404.310	3.0	202282.650	2.0
841.6402	26.00	-3.13	48928.423	2.0	60806.720	3.0
841.6415	23.00	-1.62	21603.170	4.5	33481.450	3.5
841.6500	26.02	.58	198737.050	4.0	210615.210	3.0
841.6727	22.00	-3.02	30039.211	5.0	41917.050	4.0
841.6804	25.00	-3.16	51546.270	4.5	63424.000	3.5
WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
841.6882	26.01	-2.92	50187.950	3.5	62065.570	3.5
841.6971	22.00	-.83	18037.225	4.0	29914.720	3.0
841.7031	8.01	-.43	245816.290	1.5	257693.700	.5
841.7129	75.00	-2.44	11695.340	0.0	23575.876	0.0
841.7188	28.00	-1.99	30912.838	1.0	42790.027	2.0
841.7470	22.00	-2.92	17075.310	4.0	28952.100	4.0
841.7541	19.00	-2.79	21534.700	2.5	33411.390	1.5
841.7704	9.02	-4.76	458392.610	1.5	470269.070	.5
841.7904	14.00	-.88	45321.848	3.0	57198.027	3.0
841.8151	10.01	-3.67	290371.950	2.5	302247.780	3.5
841.8378	29.01	-3.11	136270.260	4.0	148145.770	5.0
841.8427	27.00	-3.45	28470.510	1.5	40345.950	2.5
841.8562	28.01	-2.40	121294.670	4.5	133169.920	3.5
841.8640	22.01	-4.02	20891.880	3.5	32767.020	3.5
841.8713	22.00	-4.31	18037.225	4.0	29912.262	3.0
841.8746	27.00	-2.75	40827.770	1.5	52702.760	1.5
841.8761	18.01	-4.13	190592.170	1.5	202467.140	1.5
841.8785	22.00	-4.52	31205.985	3.0	43080.920	2.0
841.8798	14.00	-1.84	51612.012	0.0	63486.930	1.0
841.8895	24.00	-3.80	35813.730	3.0	47688.510	4.0
841.9171	19.00	-3.74	21537.000	1.5	33411.390	1.5
841.9228	28.01	-4.72	118927.020	4.5	130801.330	4.5
841.9994	19.00	-3.04	21537.000	1.5	33410.230	.5
842.0065	8.01	-3.70	253791.870	1.5	265665.000	2.5
842.0292	27.00	-.73	42988.120	3.5	54860.930	4.5
842.1051	27.00	-4.96	36329.860	2.5	48201.600	3.5
842.1122	25.00	-3.67	44696.290	2.5	56567.930	1.5
842.1136	16.01	-4.28	121528.200	1.5	133399.820	1.5
842.1484	23.00	-1.78	20789.130	2.5	32660.260	2.5
842.1782	27.00	-3.90	41918.410	3.5	53789.120	3.5
842.2023	27.00	-1.55	41918.410	3.5	53788.780	4.5
842.2193	27.00	-4.82	43398.620	3.5	55268.750	3.5
842.2421	10.01	-1.99	291202.030	3.5	303071.840	2.5
842.2917	26.00	-1.73	33412.706	3.0	45281.816	2.0
842.3091	22.00	-2.17	15156.787	4.0	27025.652	4.0
842.3131	20.00	-1.81	35896.889	4.0	47765.697	3.0
842.3329	28.00	-4.31	44314.980	4.0	56183.510	4.0
842.3563	22.00	-4.81	36340.670	2.0	48208.870	3.0
842.4096	26.00	-1.92	39969.830	3.0	51837.279	3.0
842.4145	24.00	-.41	48507.560	1.0	60374.940	2.0
842.4351	22.00	-2.42	16961.420	3.0	28828.510	2.0
842.4471	28.01	-4.03	121115.590	1.5	132982.510	1.5
842.4645	18.00	.06	93750.639	1.0	105617.315	2.0
842.5509	45.00	.38	33795.501	0.0	45664.220	0.0
842.5856	21.00	-4.06	33151.400	4.5	45016.370	3.5
842.5881	26.00	-6.57	8154.713	1.0	20019.648	1.0
842.5913	28.01	.27	106007.890	2.5	117872.780	2.5
842.6296	26.00	-4.22	45833.240	4.0	57697.590	4.0
842.6354	22.00	-3.46	30039.211	5.0	41903.480	5.0
842.6497	22.00	-1.13	6661.003	3.0	18525.070	2.0
842.6588	28.01	-4.43	114874.880	2.5	126738.820	1.5
842.6687	8.02	-2.50	438303.200	2.0	450167.000	3.0
842.6786	10.01	-2.37	301855.710	2.5	313719.370	2.5
842.7056	10.01	-.78	301855.710	2.5	313718.990	3.5
842.7206	22.00	-3.45	34204.971	4.0	46068.040	4.0
842.7404	25.02	-3.19	121197.050	2.5	133059.840	3.5
842.7710	21.00	-3.90	33154.010	2.5	45016.370	3.5
842.7733	22.00	-3.51	25797.600	3.0	37659.927	3.0
842.8008	24.00	-2.20	43124.880	2.0	54986.820	3.0
842.8179	12.03	-3.83	612240.300	1.5	624102.000	.5
842.8251	17.00	-.19	72827.038	.5	84688.637	.5
842.8449	22.00	-4.55	27665.570	1.0	39526.890	2.0
842.8570	26.01	-3.48	87470.800	4.5	99331.950	4.5
842.9152	26.00	-3.95	40207.120	3.0	52067.450	2.0
842.9437	28.00	-4.66	47328.850	2.0	59188.780	3.0
842.9529	24.00	-4.68	35934.020	6.0	47793.820	5.0
842.9558	25.00	-3.54	35041.370	3.5	46901.130	2.5
842.9744	22.00	-2.50	17995.750	0.0	29855.248	1.0
842.9899	23.00	-3.86	30694.340	3.5	42553.620	4.5
842.9928	6.00	-2.72	75253.970	1.0	87113.210	2.0
842.9977	20.00	-3.79	36575.119	2.0	48434.290	1.0
842.9977	20.00	-2.78	36575.119	2.0	48434.290	2.0
842.9977	20.00	-1.86	36575.119	2.0	48434.290	3.0
843.0025	22.00	-3.82	29855.248	1.0	41714.350	2.0
843.0126	21.00	-2.42	24656.800	.5	36515.760	1.5
843.0126	21.00	-1.76	24656.800	1.5	36515.760	1.5
843.0638	23.00	-3.87	25130.960	2.5	36989.200	2.5
843.0851	6.00	-2.25	75255.270	2.0	87113.210	2.0
843.0958	28.01	-4.91	118893.240	6.5	130751.030	5.5
843.1171	25.00	-1.52	41403.930	2.5	53261.420	3.5
843.1257	26.01	-3.67	58666.360	3.5	70523.730	3.5
843.1299	27.00	-4.56	43425.710	2.5	55283.020	2.5
843.1413	28.01	-4.76	118379.110	2.5	130236.260	2.5
843.1633	23.00	-.75	26249.480	1.5	38106.320	2.5
843.1662	8.02	-2.87	358667.400	1.0	370524.200	2.0
843.2217	25.01	-4.79	31514.350	4.0	43370.370	3.0
843.2373	29.01	-2.75	134359.900	1.0	146215.700	1.0
843.2639	62.01	-1.25	13953.751	0.0	25812.435	0.0
843.3291	26.01	-4.75	73016.330	3.5	84870.840	2.5
843.3341	28.01	-4.37	92792.080	3.5	104646.520	3.5
843.3476	29.01	-4.37	118532.150	2.0	130386.400	2.0
843.3611	10.01	-1.34	280797.260	2.5	292651.320	1.5
843.3789	26.00	-4.76	22838.320	2.0	34692.130	1.0
843.4052	28.01	-4.83	118877.090	1.5	130730.530	2.5
843.4144	21.00	-4.47	33056.190	3.5	44909.500	2.5
843.4379	28.01	.56	91800.050	4.5	103653.030	3.5
843.4480	26.00	-1.80	40404.492	1.0	52257.330	0.0
843.4621	26.01	-4.19	50212.930	2.5	62065.570	3.5
843.4887	22.00	-.77	6842.964	5.0	18695.230	4.0
843.4997	22.00	-4.92	29971.078	4.0	41823.190	3.0
843.5055	28.01	-3.08	121317.890	3.5	133169.920	3.5
843.5271	14.00	-3.14	39760.285	1.0	51612.012	0.0
843.5623	22.00	-.94	6742.757	4.0	18593.990	3.0
843.5639	27.00	-6.63	14399.280	.5	26250.490	.5
843.5732	15.00	-1.45	66360.120	1.5	78211.200	2.5
843.5769	44.00	-.38	30891.830	0.0	42746.114	0.0
843.6052	26.01	-4.89	31387.980	2.5	43238.610	2.5
843.6360	22.00	-3.89	29907.273	2.0	41757.470	3.0
843.6458	22.00	-4.72	31184.021	1.0	43034.080	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
843.6479	23.01	-6.91	25191.080	2.0	37041.110	2.0
843.6671	24.00	-3.76	43124.880	2.0	54974.640	2.0
843.7106	6.00	-2.54	75253.970	1.0	87103.120	1.0
843.7362	16.01	-2.80	153153.660	.5	165002.450	1.5
843.7568	27.00	-1.76	42434.230	2.5	54282.730	2.5
843.7653	18.00	-4.28	113020.390	3.0	124868.770	3.0
843.7653	18.00	-3.48	113020.390	3.0	124868.770	4.0
843.7953	14.00	-2.66	50602.440	0.0	62450.400	1.0
843.8031	6.00	-3.89	75255.270	2.0	87103.120	1.0
843.8194	22.00	-3.57	29971.078	4.0	41818.700	4.0
843.8309	28.01	-3.86	104298.230	4.5	116145.690	3.5
843.8444	23.00	-2.44	20812.990	1.5	32660.260	2.5
843.8637	6.00	-2.61	75256.120	0.0	87103.120	1.0
843.8687	21.00	-3.60	33278.640	3.5	45125.570	4.5
843.8736	7.01	-.23	178273.380	0.0	190120.240	1.0
843.8897	22.00	-.60	18192.577	6.0	30039.211	5.0
843.9420	28.01	-4.83	117573.680	4.5	129419.580	4.5
843.9536	26.00	-.62	36686.159	4.0	48531.896	3.0
843.9539	22.00	-2.08	18061.540	1.0	29907.273	2.0
843.9613	28.01	-3.23	122812.970	3.5	134658.600	4.5
843.9651	12.00	-1.91	47844.414	1.0	59689.991	2.0
843.9769	41.00	-1.98	12259.943	0.0	24108.609	0.0
844.0204	18.00	-4.26	113020.390	3.0	124865.190	2.0
844.0311	18.00	-1.52	113020.390	3.0	124865.040	3.0
844.1167	22.00	-4.82	31190.631	2.0	43034.080	1.0
844.1173	27.00	-4.12	36875.130	1.5	48718.570	2.5
844.1200	92.00	-1.16	7581.807	0.0	19428.464	0.0
844.1273	29.01	-2.15	136799.300	2.0	148642.600	2.0
844.1458	27.00	-.86	43425.710	2.5	55268.750	3.5
844.1665	22.00	-4.11	29914.720	3.0	41757.470	3.0
844.1700	10.01	-1.23	290583.170	1.5	302425.870	1.5
844.1701	26.00	-4.72	40207.120	3.0	52049.820	2.0
844.1899	28.00	-4.88	47030.148	3.0	58872.570	4.0
844.1950	24.00	-4.68	48661.590	3.0	60503.940	4.0
844.2136	22.00	-4.76	28828.510	2.0	40670.600	2.0
844.2342	8.02	-1.36	438395.200	3.0	450237.000	2.0
844.3066	22.00	-2.31	18145.400	2.0	29986.185	3.0
844.3155	28.01	-4.91	121190.340	4.5	133031.000	4.5
844.3448	18.00	-.73	113020.390	3.0	124860.640	4.0
844.3840	7.02	-.97	343116.000	4.5	354955.700	3.5
844.3840	7.02	-2.51	343116.000	3.5	354955.700	3.5
844.3970	14.00	-1.71	47351.554	2.0	59191.072	2.0
844.4150	20.00	-1.62	36731.615	1.0	48570.880	2.0
844.4150	20.00	-3.92	36731.615	1.0	48570.880	1.0
844.4406	14.00	-4.92	47351.554	2.0	59190.460	1.0
844.4443	22.00	-2.75	25699.950	2.0	37538.804	2.0
844.4461	12.00	-2.39	47851.162	2.0	59689.991	2.0
844.5166	23.00	-8.01	14514.750	1.5	26352.590	2.5
844.5350	92.00	-1.35	3710.246	0.0	15551.081	0.0
844.5470	64.00	-1.65	7501.149	0.0	19341.816	0.0
844.5490	90.00	-1.90	8065.752	0.0	19906.391	0.0
844.5752	26.00	-2.90	46137.140	3.0	57974.160	2.0
844.5808	18.01	-3.78	200234.860	2.5	212071.800	3.5
844.6247	8.00	-.46	76794.990	1.0	88631.315	0.0
844.6317	28.00	-1.93	40361.254	3.0	52197.482	3.0
844.6359	8.00	.24	76794.990	1.0	88631.158	2.0
844.6381	26.00	-1.87	40231.312	2.0	52067.450	2.0
844.6465	21.00	-2.38	24656.800	.5	36492.820	.5
844.6465	21.00	-2.57	24656.800	1.5	36492.820	.5
844.6534	26.00	-1.46	39625.784	4.0	51461.707	4.0
844.6758	8.00	.02	76794.990	1.0	88630.599	1.0
844.7150	23.00	-3.59	21646.390	3.5	33481.450	3.5
844.7464	26.02	-3.19	186882.980	3.0	198717.600	4.0
844.7620	73.00	-2.24	13227.833	0.0	25065.487	0.0
844.7638	26.00	-6.63	7728.058	3.0	19562.435	4.0
844.8242	28.01	-4.94	121180.550	5.5	133014.080	5.5
844.8718	26.00	-2.95	48531.896	3.0	60364.760	3.0
844.8785	20.02	-.03	361794.080	1.0	373626.850	2.0
844.8792	25.00	-2.05	44523.450	3.5	56356.210	3.5
844.8814	25.01	.23	85895.270	2.0	97728.000	3.0
844.8914	28.01	-4.58	118897.940	2.5	130730.530	2.5
844.8967	22.00	-4.59	29986.185	3.0	41818.700	4.0
844.9206	28.01	-2.56	96535.870	3.5	108368.050	2.5
844.9278	28.01	-4.82	120002.860	3.5	131834.940	2.5
844.9406	29.01	-.90	136799.300	2.0	148631.200	3.0
844.9456	24.00	-.11	48661.590	3.0	60493.420	3.0
844.9487	16.00	-1.23	64888.014	1.0	76719.800	1.0
844.9549	15.01	-4.18	118342.600	1.0	130174.300	2.0
844.9963	29.01	-4.20	117928.480	1.0	129759.600	1.0
845.0030	92.00	-1.65	3710.246	0.0	15544.524	0.0
845.0206	24.00	-3.87	35398.020	4.0	47228.800	5.0
845.0360	39.00	-1.33	15889.531	0.0	27723.346	0.0
845.0420	28.01	-4.82	113172.960	4.5	125003.440	5.5
845.0871	22.00	-.69	18141.229	5.0	29971.078	4.0
845.1218	16.00	-1.71	64890.436	0.0	76719.800	1.0
845.1392	28.01	-1.50	122812.970	3.5	134642.090	3.5
845.1949	28.01	-4.07	122144.990	2.5	133973.330	2.5
845.1964	18.01	-4.23	190592.170	1.5	202420.490	.5
845.1999	23.00	-7.05	14910.040	3.5	26738.310	4.5
845.2073	16.00	-1.01	64891.632	2.0	76719.800	1.0
845.2428	24.00	-3.90	33906.650	1.0	45734.320	2.0
845.3098	26.00	-3.27	33507.102	3.0	45333.834	2.0
845.3170	40.00	-1.35	11130.738	0.0	22960.620	0.0
845.3743	26.01	-3.67	49506.990	1.5	61332.820	1.5
845.4565	9.01	.34	277881.650	4.0	289706.330	3.0
845.4680	27.00	-1.01	42434.230	2.5	54258.750	2.5
845.5052	9.02	-3.29	418188.480	.5	430012.480	1.5
845.5288	24.00	-2.54	21847.880	2.0	33671.550	3.0
845.5488	6.00	-2.92	75253.970	1.0	87077.360	0.0
845.5781	27.00	-3.13	41041.430	3.5	52864.410	4.5
845.5914	28.00	-1.85	45281.152	3.0	57103.946	3.0
845.6225	28.01	-4.91	117573.680	4.5	129396.040	5.5
845.6258	22.00	-3.40	27480.047	3.0	39302.360	4.0
845.6697	24.00	-3.15	37205.880	3.0	49027.580	2.0
845.6771	26.00	-4.05	46888.494	2.0	58710.090	3.0
845.6961	23.00	-.90	26182.600	.5	38003.930	1.5
845.7097	22.00	-1.80	14105.680	3.0	25926.820	4.0
845.7480	40.00	-3.04	5000.766	0.0	16824.619	0.0
845.7484	29.01	-2.15	134675.600	2.0	146496.200	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
845.8839	28.00	-4.14	42954.234	2.0	54772.940	3.0
845.8981	26.00	-1.73	40231.312	2.0	52049.820	2.0
845.9190	71.01	-.63	29278.680	0.0	41100.143	0.0
845.9359	24.00	-4.48	35870.530	4.0	47688.510	4.0
845.9473	24.01	-2.79	53566.220	3.5	65384.040	4.5
845.9638	9.01	.20	277892.610	3.0	289710.200	2.0
845.9788	17.00	-1.34	85442.430	1.5	97259.811	1.5
845.9881	10.01	-.96	306011.070	.5	317828.320	.5
846.0009	72.00	-1.29	16696.107	0.0	28516.425	0.0
846.0203	29.01	-1.83	134743.000	4.0	146559.800	4.0
846.0511	24.00	-.55	48558.570	2.0	60374.940	2.0
846.0726	27.00	-3.00	40345.950	2.5	52162.020	3.5
846.0819	24.00	-2.88	33906.650	1.0	45722.590	0.0
846.1313	22.01	-5.64	20951.770	2.5	32767.020	3.5
846.1483	14.00	-2.74	48102.323	2.0	59917.336	2.0
846.1772	24.00	-2.19	21856.940	3.0	33671.550	3.0
846.1886	24.00	-4.90	33060.740	3.0	44875.190	2.0
846.2022	28.01	-4.91	118877.090	1.5	130691.350	1.5
846.2123	27.00	-3.77	41101.800	.5	52915.920	.5
846.2316	29.01	-2.94	125230.600	3.0	137044.450	4.0
846.2409	9.01	-.88	277892.610	3.0	289706.330	3.0
846.2459	28.01	-2.47	121800.340	1.5	133613.990	1.5
846.2495	29.01	-3.85	134743.000	4.0	146556.600	3.0
846.2631	24.00	-3.80	35807.900	2.0	47621.310	3.0
846.3247	24.00	-3.34	33906.650	1.0	45719.200	1.0
846.4071	17.01	-2.74	158723.700	1.0	170535.100	2.0
846.4650	40.00	-2.08	5162.081	0.0	16975.919	0.0
846.4710	63.00	-.80	17583.339	0.0	29397.093	0.0
846.5191	26.00	-2.45	40404.492	1.0	52214.330	1.0
846.5799	22.00	-4.97	36298.430	1.0	48107.420	2.0
846.6059	26.00	-2.13	40231.312	2.0	52039.939	1.0
846.6157	25.01	-3.62	70342.580	3.0	82151.070	2.0
846.6486	12.00	-2.72	47841.119	0.0	59649.150	1.0
846.6540	26.00	-2.52	33412.706	3.0	45220.662	3.0
846.6932	9.01	-.81	277902.790	2.0	289710.200	2.0
846.6989	28.01	-4.53	118923.200	3.5	130730.530	2.5
846.7132	22.00	-2.22	17075.310	4.0	28882.440	3.0
846.7170	22.00	-4.56	29907.273	2.0	41714.350	2.0
846.7297	17.01	-2.74	158768.600	2.0	170575.500	3.0
846.7333	27.00	-3.90	40827.770	1.5	52634.620	.5
846.7342	17.00	-.92	83894.037	3.5	95700.874	3.5
846.7376	27.00	-4.09	41918.410	3.5	53725.200	4.5
846.7398	24.00	-2.29	45566.020	3.0	57372.780	4.0
846.7620	57.00	-.26	20003.065	0.0	31812.759	0.0
846.7756	23.00	-4.98	30771.720	4.5	42577.980	5.5
846.7900	22.01	-3.40	20891.880	3.5	32697.940	2.5
846.8072	22.00	-4.93	29818.310	3.0	41624.130	4.0
846.8230	25.00	-3.59	51718.220	1.5	63523.820	2.5
846.8414	26.00	-2.24	17927.378	1.0	29732.721	1.0
846.8472	22.00	-.90	15220.390	5.0	27025.652	4.0
846.8849	12.00	-2.24	47844.414	1.0	59649.150	1.0
846.9112	29.01	-4.12	125230.600	3.0	137034.970	3.0
846.9298	24.00	-4.34	35884.400	5.0	47688.510	4.0
846.9550	23.00	-5.07	14548.830	2.5	26352.590	2.5
846.9708	9.01	-2.65	277902.790	2.0	289706.330	3.0
846.9765	24.00	.22	48824.500	4.0	60627.960	4.0
846.9819	22.00	-4.37	27498.975	3.0	39302.360	4.0
847.0231	24.00	-.65	48488.230	0.0	60291.040	1.0
847.0425	28.01	-3.94	122120.370	5.5	133922.910	4.5
847.0605	26.01	-4.38	72524.620	1.5	84326.910	1.5
847.0985	25.01	-3.89	70342.580	3.0	82144.340	3.0
847.1387	28.00	-2.70	47424.830	1.0	59226.030	1.0
847.1388	10.00	-3.33	158795.992	1.0	170597.190	2.0
847.1617	29.01	-2.86	135135.600	1.0	146936.480	2.0
847.1712	26.00	-1.24	39969.830	3.0	51770.577	3.0
847.1724	16.01	-1.86	153201.720	1.5	165002.450	1.5
847.2514	22.00	-3.23	29914.720	3.0	41714.350	2.0
847.2651	24.00	-2.42	33934.880	3.0	45734.320	2.0
847.2709	28.00	-3.08	44475.158	2.0	56274.516	2.0
847.2711	26.00	-4.92	46720.824	4.0	58520.180	4.0
847.3203	24.00	-4.09	33935.650	2.0	45734.320	2.0
847.3347	28.01	-1.78	108368.050	2.5	120166.520	1.5
847.3540	62.01	-1.63	12663.231	0.0	24464.674	0.0
847.3603	22.00	-3.50	27614.667	4.0	39412.780	5.0
847.3639	44.00	.36	32988.926	0.0	44790.231	0.0
847.3694	12.00	-2.02	47851.162	2.0	59649.150	1.0
847.3749	28.01	-2.64	122175.420	2.5	133973.330	2.5
847.3923	26.00	-3.19	33765.291	2.0	45562.959	3.0
847.3986	26.01	-4.11	60441.050	1.5	72238.630	2.5
847.4371	14.00	-3.93	49850.830	2.0	61647.875	2.0
847.4719	28.01	-3.60	121115.590	1.5	132912.150	2.5
847.4740	14.00	-3.24	49850.830	2.0	61647.360	1.0
847.4834	28.01	-3.22	114942.420	1.5	126738.820	1.5
847.4859	22.00	-3.82	27418.015	2.0	39214.380	3.0
847.5160	74.00	-2.51	17986.627	0.0	29785.814	0.0
847.5179	25.00	-3.47	51787.920	.5	63583.840	1.5
847.5629	17.00	-3.14	85442.430	1.5	97237.723	2.5
847.5682	24.00	-.88	45566.020	3.0	57361.240	3.0
847.5804	26.01	-4.58	87536.900	3.5	99331.950	4.5
847.5812	17.00	-2.39	85735.091	1.5	97530.130	2.5
847.5980	41.00	-2.39	8952.985	0.0	20751.031	0.0
847.6199	25.00	-2.77	44696.290	2.5	56490.790	2.5
847.6271	22.00	-4.82	36414.470	3.0	48208.870	3.0
847.6271	28.01	-.64	122812.970	3.5	134607.370	4.5
847.6402	22.00	-4.79	27355.042	1.0	39149.260	2.0
847.6480	57.00	-2.01	2984.328	0.0	14781.678	0.0
847.6523	28.01	-2.60	94067.140	1.5	105861.190	2.5
847.6768	22.00	-2.73	18061.540	1.0	29855.248	1.0
847.6832	25.01	-4.87	70342.580	3.0	82136.200	4.0
847.6954	28.01	-4.92	118442.810	1.5	130236.260	2.5
847.7026	26.01	-4.41	60445.280	2.5	72238.630	2.5
847.7134	26.02	.29	198606.370	2.0	210399.570	3.0
847.7169	25.00	-3.37	50341.300	4.5	62134.450	5.5
847.8104	24.00	-3.99	35398.020	4.0	47189.870	4.0
847.8147	24.00	-3.46	39158.630	4.0	50950.420	3.0
847.8370	90.00	-1.87	5484.711	0.0	17279.431	0.0
847.8435	27.00	-1.94	34133.590	3.5	45924.980	3.5
847.8471	24.00	-4.45	48824.500	4.0	60615.840	3.0
847.8643	17.01	-1.42	153571.000	1.0	165362.100	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
847.8715	20.02	-1.11	371061.300	3.0	382852.300	2.0
847.8715	17.01	-2.14	158723.700	1.0	170514.700	1.0
847.9701	26.02	.51	198606.370	2.0	210396.000	2.0
847.9938	20.02	.36	371274.480	2.0	383063.780	3.0
848.0003	28.00	-4.41	47328.850	2.0	59118.060	2.0
848.0082	17.01	-1.61	158786.400	3.0	170575.500	3.0
848.0119	10.00	-3.81	158795.992	1.0	170585.040	1.0
848.0146	23.00	-5.68	14949.300	4.5	26738.310	4.5
848.0211	10.01	-2.59	292651.320	1.5	304440.240	.5
848.0590	26.00	-2.13	40231.312	2.0	52019.706	1.0
848.1044	28.00	-1.19	44475.158	2.0	56262.920	3.0
848.1280	28.00	-3.36	40484.282	2.0	52271.716	2.0
848.1377	26.02	.46	198606.370	2.0	210393.670	1.0
848.1470	29.01	-4.55	125247.800	2.0	137034.970	3.0
848.1701	20.02	-1.40	371274.480	2.0	383061.330	2.0
848.1808	22.00	-3.90	27740.190	2.0	39526.890	2.0
848.1859	16.01	-2.07	119242.130	1.5	131028.760	1.5
848.1983	26.00	-1.78	33765.291	2.0	45551.748	1.0
848.2030	22.00	-3.36	29971.078	4.0	41757.470	3.0
848.2204	25.00	-4.24	35114.980	2.5	46901.130	2.5
848.2341	24.01	-2.45	53923.570	4.5	65709.530	5.5
848.2507	27.00	-2.21	41918.410	3.5	53704.140	2.5
848.2787	25.01	-3.99	55115.800	2.0	66901.140	2.0
848.3125	10.01	-.68	291495.040	2.5	303279.910	2.5
848.3172	22.00	-2.16	15108.121	3.0	26892.926	3.0
848.3255	26.01	-4.31	60384.460	.5	72169.150	1.5
848.3298	24.00	-.05	45566.020	3.0	57350.650	2.0
848.3389	42.00	-.50	25649.091	0.0	37436.833	0.0
848.3409	22.00	-1.83	33700.874	4.0	45485.350	5.0
848.3542	28.00	-3.32	47208.228	1.0	58992.520	2.0
848.3560	44.00	.26	32182.351	0.0	43969.855	0.0
848.3622	18.01	-2.48	199879.320	3.5	211663.500	3.5
848.3680	15.01	-3.12	130174.300	2.0	141958.400	1.0
848.3953	27.00	-1.73	41918.410	3.5	53702.130	3.5
848.4076	24.00	-2.58	33935.650	2.0	45719.200	1.0
848.4126	24.00	-1.26	48507.560	1.0	60291.040	1.0
848.4321	22.00	-4.95	28772.860	0.0	40556.070	1.0
848.4906	10.00	-4.18	158795.992	1.0	170578.390	1.0
848.5264	23.00	-4.90	30771.720	4.5	42553.620	4.5
848.5990	62.01	-1.17	13469.806	0.0	25253.935	0.0
848.6035	28.01	.22	109269.830	1.5	121050.660	2.5
848.6200	28.01	-1.73	109675.720	.5	121456.320	1.5
848.7001	22.00	-3.75	30039.211	5.0	41818.700	4.0
848.7058	25.01	-4.75	72648.800	4.0	84428.210	5.0
848.7936	28.00	-3.82	42954.234	2.0	54732.425	2.0
848.7944	10.01	-3.14	280768.520	.5	292546.700	.5
848.8809	17.00	-2.70	90749.360	2.5	102526.340	2.5
848.8867	17.00	-1.40	90749.360	2.5	102526.260	3.5
848.9076	28.01	.73	115081.360	4.5	126857.970	5.5
848.9400	27.00	-.71	41918.410	3.5	53694.570	3.5
849.0088	26.00	-3.99	46744.975	3.0	58520.180	4.0
849.0301	18.00	-2.82	107131.755	1.0	118906.665	2.0
849.0633	9.01	-3.58	278368.010	2.0	290142.460	2.0
849.0706	22.00	-4.42	31373.801	3.0	43148.150	3.0
849.1285	26.00	-4.91	34636.820	2.0	46410.366	1.0
849.1787	25.00	-4.85	30425.710	1.5	42198.560	.5
849.1859	24.00	-4.04	36558.550	2.0	48331.300	1.0
849.1866	28.01	-.15	109269.830	1.5	121042.570	1.5
849.2078	14.00	-1.63	47284.061	1.0	59056.508	1.0
849.2083	20.02	-.75	348028.130	3.0	359800.570	3.0
849.2083	9.02	-1.97	430374.750	2.5	442147.190	2.5
849.2299	18.01	-4.78	172213.800	1.5	183985.940	1.5
849.2364	26.01	-4.66	60441.050	1.5	72213.100	.5
849.2537	24.00	-4.52	50890.150	2.0	62661.960	3.0
849.2545	8.02	-1.66	438395.200	3.0	450167.000	3.0
849.2766	26.00	-4.46	42911.897	5.0	54683.390	4.0
849.2855	10.01	-1.05	301948.000	1.5	313719.370	2.5
849.2916	22.00	-4.93	29986.185	3.0	41757.470	3.0
849.2950	26.00	-8.70	7985.783	2.0	19757.020	3.0
849.3210	26.00	-4.98	37157.546	2.0	48928.423	2.0
849.3251	10.01	-.59	280262.330	3.5	292033.150	2.5
849.3323	10.01	-1.22	306011.070	.5	317781.790	1.5
849.3511	23.00	-4.60	27470.880	3.5	39241.340	2.5
849.3746	26.00	-2.18	39969.830	3.0	51739.964	2.0
849.4471	22.00	-2.11	14028.470	2.0	25797.600	3.0
849.4666	22.00	-2.13	37090.650	0.0	48859.510	1.0
849.4832	28.01	-3.91	114970.190	.5	126738.820	1.5
849.5250	24.00	-2.46	45614.880	4.0	57382.930	5.0
849.5366	26.01	-4.78	54904.500	3.5	66672.390	3.5
849.5460	15.00	-1.95	66813.040	1.5	78580.800	1.5
849.5583	25.01	.37	85960.410	3.0	97728.000	3.0
849.5713	28.01	-.13	108548.610	1.5	120316.020	.5
849.5980	40.00	-1.37	17018.737	0.0	28789.010	0.0
849.6059	22.00	-3.56	29818.310	3.0	41585.240	3.0
849.6090	92.00	-1.45	8065.752	0.0	19835.872	0.0
849.6095	24.00	-4.09	37883.340	2.0	49650.220	3.0
849.6108	22.00	-1.54	18145.400	2.0	29912.262	3.0
849.6189	22.00	-4.66	36340.670	2.0	48107.420	2.0
849.6204	18.00	-3.74	113716.610	3.0	125483.340	2.0
849.6334	18.00	-2.53	113716.610	3.0	125483.160	3.0
849.6370	17.01	-1.99	158768.600	2.0	170535.100	2.0
849.6398	28.01	-3.61	122086.580	3.5	133853.040	4.5
849.6513	26.00	-3.10	35611.608	3.0	47377.909	4.0
849.6529	13.02	-2.23	201971.160	2.5	213737.440	2.5
849.6529	13.02	-.93	201971.160	3.5	213737.440	2.5
849.6529	13.02	-1.08	201971.160	2.5	213737.440	1.5
849.6666	18.00	-2.48	113716.610	3.0	125482.700	3.0
849.6666	18.00	-1.16	113716.610	3.0	125482.700	4.0
849.6803	56.01	-.88	61336.000	0.0	73105.132	0.0
849.6952	26.00	-.81	37162.729	3.0	48928.423	2.0
849.7234	17.00	-4.41	84132.262	2.5	95897.565	1.5
849.7453	7.02	-.49	342752.000	3.5	354517.000	2.5
849.7492	26.00	-4.70	36766.950	3.0	48531.896	3.0
849.7850	22.00	-4.91	28791.620	1.0	40556.070	1.0
849.7995	28.01	-4.16	122086.580	3.5	133850.830	3.5
849.8023	20.01	-1.42	13650.190	1.5	25414.400	1.5
849.8038	10.01	-1.36	280268.960	2.5	292033.150	2.5
849.8233	9.02	-4.20	418248.560	1.5	430012.480	1.5
849.8440	40.00	-2.22	5000.766	0.0	16767.631	0.0
849.8536	23.01	-6.31	25191.080	2.0	36954.580	1.0
849.8854	20.02	-1.07	374143.840	3.0	385906.900	2.0
849.9057	26.00	-3.76	40534.180	3.0	52296.960	2.0
849.9346	20.02	-1.84	347758.220	2.0	359520.600	2.0
849.9490	23.00	-.49	26480.280	3.5	38242.460	3.5
849.9712	22.00	-3.00	18145.400	2.0	29907.273	2.0
849.9851	22.00	-4.25	35685.160	6.0	47446.840	6.0
850.0032	26.01	-3.04	71964.810	2.5	83726.240	3.5
850.0993	18.01	.05	203151.200	2.5	214911.300	2.5
850.1066	29.01	-1.38	136799.300	2.0	148559.300	2.0
850.1245	17.00	-1.31	85244.330	.5	97004.081	1.5
850.1412	18.01	-2.47	202429.840	3.5	214189.360	4.5
850.1463	23.00	-1.98	26171.960	4.5	37931.410	5.5
850.1544	14.00	-1.53	47351.554	2.0	59110.892	2.0
850.1799	28.00	-1.89	31031.042	3.0	42790.027	2.0
850.2071	24.00	-3.17	35934.020	6.0	47692.630	7.0
850.2219	14.00	-1.26	47351.554	2.0	59109.959	3.0
850.2584	24.00	-.99	45614.880	4.0	57372.780	4.0
850.2676	26.00	-7.35	8154.713	1.0	19912.486	2.0
850.2888	23.00	-.98	26182.600	.5	37940.080	.5
850.3134	23.00	-3.75	21603.170	4.5	33360.310	3.5
850.3401	29.01	-.96	108335.430	2.0	120092.200	2.0
850.3452	19.00	-2.24	21534.700	2.5	33291.400	2.5
850.3452	19.00	-.94	21534.700	2.5	33291.400	3.5
850.3539	24.01	-3.88	53923.570	4.5	65680.150	4.5
850.3944	28.01	-.82	106007.890	2.5	117763.910	1.5
850.4385	26.01	-4.93	31483.200	3.5	43238.610	2.5
850.4544	28.01	.16	92325.850	3.5	104081.040	4.5
850.4700	92.01	-2.54	6371.944	0.0	18130.148	0.0
850.4717	18.01	-3.88	202429.840	3.5	214184.790	3.5
850.5065	25.00	-4.71	50818.640	.5	62573.110	1.5
850.5080	23.00	-.96	26249.480	1.5	38003.930	1.5
850.5116	29.01	-1.13	139028.200	2.0	150782.600	2.0
850.5116	19.00	-1.10	21537.000	1.5	33291.400	2.5
850.5492	20.02	-1.30	359520.600	2.0	371274.480	2.0
850.5601	23.00	-.76	26352.590	2.5	38106.320	2.5
850.5955	22.00	-3.31	27887.740	3.0	39640.980	3.0
850.5984	25.00	-3.64	44814.730	1.5	56567.930	1.5
850.5984	29.01	-2.51	134743.000	4.0	146496.200	3.0
850.6006	38.01	.24	55769.700	0.0	67526.099	0.0
850.6634	14.00	-2.01	50566.397	1.0	62318.700	0.0
850.6702	22.00	-3.48	27355.042	1.0	39107.250	1.0
850.6853	29.01	-4.08	134675.600	2.0	146427.600	1.0
850.6940	24.00	-4.93	24282.340	4.0	36034.220	3.0
850.7105	22.00	-4.59	18287.560	4.0	30039.211	5.0
850.7370	57.00	-1.51	8388.382	0.0	20142.896	0.0
850.7736	24.00	-4.21	35870.530	4.0	47621.310	3.0
850.7787	29.01	-2.02	135135.600	1.0	146886.310	1.0
850.7908	12.00	-2.05	49346.729	1.0	61097.270	2.0
850.8069	27.00	-4.88	43199.650	2.5	54949.970	1.5
850.8080	71.00	-.64	23390.681	0.0	35144.214	0.0
850.8561	28.01	-3.60	116145.690	3.5	127895.330	3.5
850.8989	27.00	-1.98	40345.950	2.5	52095.000	3.5
850.9061	26.02	.73	198655.660	3.0	210404.610	4.0
850.9235	20.02	-1.89	348051.860	4.0	359800.570	3.0
850.9242	17.01	-1.97	158786.400	3.0	170535.100	2.0
850.9532	8.02	-2.47	358667.400	1.0	370415.700	1.0
850.9568	23.00	-4.99	19023.470	4.5	30771.720	4.5
850.9692	14.00	-3.08	47284.061	1.0	59032.140	2.0
851.0246	14.00	-1.99	49850.830	2.0	61598.145	2.0
851.0481	6.00	-3.74	75255.270	2.0	87002.260	3.0
851.0661	14.00	-4.65	50189.389	2.0	61936.130	1.0
851.0783	14.00	-3.49	49850.830	2.0	61597.404	3.0
851.0900	62.01	-1.41	12743.888	0.0	24493.527	0.0
851.0937	24.00	-.28	45614.880	4.0	57361.240	3.0
851.1060	29.01	-.32	121981.680	2.0	133727.870	2.0
851.1075	22.01	-5.13	20951.770	2.5	32697.940	2.5
851.1126	28.02	-2.70	121412.200	2.0	133158.300	3.0
851.1126	17.01	-2.14	158768.600	2.0	170514.700	1.0
851.1140	28.01	-3.23	104081.040	4.5	115827.120	3.5
851.1176	24.00	-3.16	35884.400	5.0	47630.430	6.0
851.1475	28.00	-4.88	42954.234	2.0	54699.852	3.0
851.1508	17.00	-2.69	85735.091	1.5	97480.664	1.5
851.1588	20.00	-2.65	35730.454	2.0	47475.915	3.0
851.1603	17.00	-3.63	90487.870	3.5	102233.310	2.5
851.1676	9.01	-2.46	278397.120	1.0	290142.460	2.0
851.2713	26.02	.63	198655.660	3.0	210399.570	3.0
851.3380	27.00	-2.65	34133.590	3.5	45876.580	2.5
851.3467	10.01	-2.83	291495.040	2.5	303237.910	1.5
851.3570	57.00	-1.33	9840.217	0.0	21586.171	0.0
851.3707	22.00	-3.61	31489.451	4.0	43231.990	4.0
851.3780	40.00	-3.11	5000.766	0.0	16746.430	0.0
851.4008	22.00	-1.95	37172.947	1.0	48915.070	2.0
851.4011	26.01	-3.26	54870.620	2.5	66612.740	1.5
851.4079	26.00	-2.41	17726.985	2.0	29469.010	2.0
851.4600	14.00	-1.67	45276.188	1.0	57017.496	2.0
851.4650	57.01	-3.14	7420.492	0.0	19164.956	0.0
851.4675	22.00	-4.12	25797.600	3.0	37538.804	2.0
851.5060	40.00	-1.64	16938.079	0.0	28681.977	0.0
851.5122	26.00	-2.10	24338.766	3.0	36079.353	3.0
851.5301	26.02	.21	198655.660	3.0	210396.000	2.0
851.5308	16.01	-4.99	121528.200	1.5	133268.530	.5
851.5352	18.01	-2.22	161089.310	.5	172829.580	1.5
851.5425	28.01	-3.10	116145.690	3.5	127885.860	4.5
851.5475	29.01	-2.22	134675.600	2.0	146415.700	2.0
851.5606	27.00	-1.50	43425.710	2.5	55165.630	2.5
851.5809	28.01	-.28	106133.140	1.5	117872.780	2.5
851.6070	26.02	-4.10	186597.300	6.0	198336.580	5.0
851.6665	25.01	-3.79	54938.100	1.0	66676.560	2.0
851.7580	20.02	-3.35	371061.300	3.0	382798.500	4.0
851.7630	20.02	-1.81	371061.370	4.0	382798.500	4.0
851.7971	22.00	-2.06	17215.440	5.0	28952.100	4.0
851.8029	23.00	-2.17	26505.880	2.5	38242.460	3.5
851.8116	26.02	-2.12	186597.300	6.0	198333.760	6.0
851.8276	24.00	-4.08	36552.130	3.0	48288.370	4.0
851.8349	22.00	-1.00	15156.787	4.0	26892.926	3.0
851.8770	20.00	-1.06	35730.454	2.0	47466.014	2.0
851.8995	27.00	-3.00	41968.890	2.5	53704.140	2.5
851.9015	26.00	-2.34	39969.830	3.0	51705.052	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
851.9028	26.00	-8.63	11976.239	4.0	23711.443	4.0
851.9372	23.00	-6.78	14514.750	1.5	26249.480	1.5
851.9532	17.00	-1.67	90487.870	3.5	102222.380	3.5
851.9661	22.00	-3.22	27480.047	3.0	39214.380	3.0
851.9663	24.00	-4.66	24299.890	2.0	36034.220	3.0
851.9750	17.00	-.73	90487.870	3.5	102222.080	4.5
851.9936	22.00	-3.00	27907.026	2.0	39640.980	3.0
851.9946	24.00	-.65	48507.560	1.0	60241.500	0.0
852.0454	27.00	-3.02	41968.890	2.5	53702.130	3.5
852.0551	22.00	-3.11	25926.820	4.0	37659.927	3.0
852.1013	24.00	-.41	48558.570	2.0	60291.040	1.0
852.1131	55.00	.15	0.000	0.0	11735.531	0.0
852.1244	14.00	-3.43	50499.838	2.0	62231.990	2.0
852.1438	18.00	-.36	95399.870	1.0	107131.755	1.0
852.1573	25.00	-.07	45754.270	3.5	57485.970	2.5
852.1885	24.00	-2.97	21810.840	1.0	33542.110	2.0
852.1903	22.00	-3.20	27418.015	2.0	39149.260	2.0
852.2220	17.00	-3.08	90487.870	3.5	102218.680	2.5
852.2604	24.00	-4.98	24303.940	3.0	36034.220	3.0
852.2663	20.02	-1.91	371061.300	3.0	382791.500	3.0
852.2713	20.02	-3.41	371061.370	4.0	382791.500	3.0
852.3534	17.01	-4.29	153633.100	1.0	165362.100	0.0
852.3788	9.01	-4.79	254541.460	3.0	266270.110	2.0
852.4152	23.01	-7.02	25191.080	2.0	36919.230	3.0
852.4188	26.01	-4.55	60441.050	1.5	72169.150	1.5
852.4406	27.00	-4.74	43555.220	3.5	55283.020	2.5
852.4494	24.00	-5.00	35398.020	4.0	47125.700	3.0
852.4879	18.01	-2.21	199879.320	3.5	211606.470	3.5
852.5077	26.00	-4.07	36975.640	3.0	48702.518	4.0
852.5314	14.00	-3.29	50499.838	2.0	62226.390	1.0
852.5424	28.01	-.25	122812.970	3.5	134539.370	2.5
852.5686	24.00	-2.66	45663.280	5.0	57389.320	6.0
852.5717	20.00	-.37	35730.454	2.0	47456.452	1.0
852.5948	27.00	-2.60	41968.890	2.5	53694.570	3.5
852.6181	15.00	-1.80	67971.140	.5	79696.500	1.5
852.6645	26.00	-.89	39625.784	4.0	51350.505	4.0
852.6747	10.01	-1.45	290583.170	1.5	302307.750	2.5
852.6990	41.00	-1.98	10808.108	0.0	22535.576	0.0
852.7133	27.00	-2.03	40345.950	2.5	52070.000	2.5
852.7198	25.00	-4.44	30419.610	2.5	42143.570	1.5
852.7266	14.00	-.93	45293.629	2.0	57017.496	2.0
852.7329	9.01	-4.73	254546.330	3.0	266270.110	2.0
852.7344	20.02	-.94	374143.440	4.0	385867.200	3.0
852.7577	22.00	-.58	32857.721	3.0	44581.160	2.0
852.7606	20.02	-2.42	371061.300	3.0	382784.700	3.0
852.7635	20.02	-2.37	374143.840	3.0	385867.200	3.0
852.7657	20.02	-.99	371061.370	4.0	382784.700	3.0
852.7722	24.00	-4.18	35862.820	4.0	47586.060	5.0
852.7730	75.00	-1.93	17099.394	0.0	28825.844	0.0
852.7846	26.00	-1.95	40491.260	0.0	52214.330	1.0
852.7879	64.00	-1.54	7501.149	0.0	19227.394	0.0
852.8261	29.01	-2.73	136799.300	2.0	148521.800	1.0
852.8940	39.00	-.62	24519.886	0.0	36244.672	0.0
852.9003	27.00	-3.37	41982.660	1.5	53704.140	2.5
852.9306	22.00	-4.46	35559.627	5.0	47280.690	5.0
853.0334	24.00	-.95	45663.280	5.0	57382.930	5.0
853.0334	16.01	-1.40	153282.800	2.5	165002.450	1.5
853.0509	28.01	-4.12	121294.670	4.5	133014.080	5.5
853.0655	23.00	-4.24	19145.130	5.5	30864.340	5.5
853.0807	15.00	-4.20	65156.400	1.5	76875.400	1.5
853.0808	26.02	-2.89	186998.600	4.0	198717.600	4.0
853.1077	20.00	-.61	35730.454	2.0	47449.083	2.0
853.1174	26.00	-3.84	40052.080	2.0	51770.577	3.0
853.1390	22.00	-2.55	13981.750	1.0	25699.950	2.0
853.2740	46.00	.19	40570.733	0.0	52290.298	0.0
853.2752	10.01	-.29	291801.880	1.5	303518.210	1.5
853.2985	22.01	-4.57	53596.700	1.5	65312.710	2.5
853.3291	24.00	-4.93	38537.680	5.0	50253.270	5.0
853.3334	24.00	-3.21	35870.530	4.0	47586.060	5.0
853.3425	22.00	-3.72	27498.975	3.0	39214.380	3.0
853.3910	24.00	-3.00	37883.340	2.0	49598.080	2.0
853.3939	29.01	-.92	139028.200	2.0	150742.900	3.0
853.4252	28.01	-.37	122812.970	3.5	134527.240	3.5
853.4361	18.01	-1.09	199879.320	3.5	211593.440	4.5
853.4376	14.00	-3.28	49933.775	3.0	61647.875	2.0
853.4507	23.00	-1.18	21646.390	3.5	33360.310	3.5
853.4551	18.01	-1.41	203197.440	3.5	214911.300	2.5
853.4696	12.00	-1.75	49346.729	1.0	61060.390	2.0
853.4791	27.00	-3.75	43555.220	3.5	55268.750	3.5
853.4922	24.00	-.36	48661.590	3.0	60374.940	2.0
853.5032	28.00	-2.50	40484.282	2.0	52197.482	3.0
853.6164	14.00	-.91	49850.830	2.0	61562.477	3.0
853.6220	16.01	-1.73	118146.500	1.5	129858.070	1.5
853.6242	24.00	-4.04	50950.420	3.0	62661.960	3.0
853.6285	6.00	-4.91	75253.970	1.0	86965.450	2.0
853.6519	10.01	-1.32	282375.330	1.5	294086.490	1.5
853.6533	28.01	-4.75	92792.080	3.5	104503.220	2.5
853.6898	24.00	-4.66	36577.730	4.0	48288.370	4.0
853.6918	20.00	-2.40	36547.688	0.0	48258.300	1.0
853.7003	9.00	-2.06	116987.394	3.5	128697.890	2.5
853.7233	6.00	-3.86	75255.270	2.0	86965.450	2.0
853.7277	28.01	-4.75	122140.710	4.5	133850.830	3.5
853.7306	28.01	-.39	109675.720	.5	121385.800	1.5
853.7320	25.00	-4.28	50863.050	1.5	62573.110	1.5
853.7475	22.00	-4.21	18145.400	2.0	29855.248	1.0
853.7685	18.01	-2.75	199959.620	2.5	211669.180	2.5
853.7729	24.00	-.01	45663.280	5.0	57372.780	4.0
853.7790	28.00	-4.27	44565.100	3.0	56274.516	2.0
853.7980	26.00	-4.51	39625.784	4.0	51334.940	4.0
853.8187	26.00	-4.73	22838.320	2.0	34547.192	2.0
853.9146	26.00	-3.05	33801.555	2.0	45509.112	1.0
853.9333	26.01	-4.71	72619.610	2.5	84326.910	1.5
853.9465	22.00	-4.81	31373.801	3.0	43080.920	2.0
853.9468	22.00	-1.84	18061.540	1.0	29768.655	2.0
853.9523	20.02	-1.35	331403.200	1.0	343110.240	0.0
853.9630	17.00	-3.47	85442.430	1.5	97149.323	.5
853.9705	18.01	-3.34	199879.320	3.5	211586.110	2.5
853.9785	25.01	-4.59	54938.100	1.0	66644.780	1.0
853.9829	21.00	-3.99	24866.180	1.5	36572.800	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
853.9873	25.00	-3.43	34463.370	1.5	46169.930	.5
854.0200	92.00	-1.53	5726.684	0.0	17436.012	0.0
854.0551	24.00	-2.84	37883.340	2.0	49588.970	1.0
854.0763	27.00	-2.93	43199.650	2.5	54904.990	2.5
854.1397	26.00	-4.31	42532.729	3.0	54237.200	4.0
854.1572	20.00	-2.05	36554.749	1.0	48258.980	2.0
854.1580	10.01	-.65	280947.100	1.5	292651.320	1.5
854.1828	18.01	-1.99	199959.620	2.5	211663.500	3.5
854.1843	24.01	-3.54	55023.300	2.5	66727.160	2.5
854.1843	28.01	-3.15	116191.470	2.5	127895.330	3.5
854.1894	23.00	-1.12	21603.170	4.5	33306.960	4.5
854.1996	27.00	-5.54	14036.280	1.5	25739.930	2.5
854.2011	25.00	-3.94	38669.600	3.5	50373.230	2.5
854.2068	20.00	-2.53	36554.749	1.0	48258.300	1.0
854.2091	20.01	-.47	13710.880	2.5	25414.400	1.5
854.2128	25.01	-5.00	67865.630	4.0	79569.100	5.0
854.2215	9.01	-2.25	277520.380	1.0	289223.730	1.0
854.2266	28.01	-2.48	122270.050	3.5	133973.330	2.5
854.2303	27.00	-1.09	42811.440	3.5	54514.670	3.5
854.2708	20.00	-2.58	36731.615	1.0	48434.290	2.0
854.2708	20.00	-4.88	36731.615	1.0	48434.290	1.0
854.3062	6.00	-4.74	75253.970	1.0	86956.160	1.0
854.3151	14.00	-1.14	45276.188	1.0	56978.256	1.0
854.3220	62.01	-1.54	12905.203	0.0	24610.391	0.0
854.3223	12.01	-4.75	103196.750	.5	114898.720	1.5
854.3237	9.01	-2.96	277521.780	2.0	289223.730	1.0
854.3449	24.00	-3.73	35884.400	5.0	47586.060	5.0
854.3460	57.00	-1.20	9840.217	0.0	21545.077	0.0
854.3637	22.00	-2.99	31628.668	5.0	43330.070	5.0
854.4011	6.00	-3.32	75255.270	2.0	86956.160	1.0
854.4062	25.00	-4.59	51530.610	3.5	63231.430	4.5
854.4106	18.01	-2.21	172213.800	1.5	183914.560	.5
854.4157	25.02	-4.68	121197.050	2.5	132897.740	2.5
854.4186	23.00	-5.01	14548.830	2.5	26249.480	1.5
854.4632	6.00	-4.47	75256.120	0.0	86956.160	1.0
854.4822	24.00	-4.93	36552.130	3.0	48251.910	3.0
854.5012	25.00	-4.41	30354.210	3.5	42053.730	2.5
854.5375	22.00	-1.55	37325.407	2.0	49024.430	3.0
854.5440	57.00	-1.64	2984.328	0.0	14686.476	0.0
854.6253	28.00	-3.06	44565.100	3.0	56262.920	3.0
854.6454	28.00	-1.94	44475.158	2.0	56172.704	3.0
854.6480	72.00	-1.89	6533.259	0.0	18233.983	0.0
854.6560	28.02	-3.97	121802.800	3.0	133500.200	2.0
854.7021	18.01	-.32	189654.780	2.5	201351.550	2.5
854.7079	28.01	-1.59	110573.360	2.5	122270.050	3.5
854.7250	41.00	-2.59	8307.725	0.0	20007.394	0.0
854.7284	24.00	-3.57	35934.020	6.0	47630.430	6.0
854.7452	24.00	-3.58	50950.420	3.0	62646.600	2.0
854.7841	14.00	-2.63	45321.848	3.0	57017.496	2.0
854.8098	22.00	-1.11	15108.121	3.0	26803.417	2.0
854.8512	23.00	-6.24	14910.040	3.5	26604.770	3.5
854.8724	26.01	-3.95	60270.370	3.5	71964.810	2.5
854.8833	28.01	-1.75	106620.530	3.5	118314.820	2.5
854.8877	24.00	-2.25	21847.880	2.0	33542.110	2.0
854.9133	28.01	-3.12	118294.170	3.5	129988.050	2.5
854.9287	24.00	-2.52	43124.880	2.0	54818.550	2.0
854.9360	23.00	-4.40	19078.150	3.5	30771.720	4.5
854.9513	24.00	-4.97	36558.550	2.0	48251.910	3.0
854.9608	28.00	-2.83	47424.830	1.0	59118.060	2.0
854.9835	26.00	-4.69	47017.170	3.0	58710.090	3.0
855.0353	14.00	-1.48	50189.389	2.0	61881.600	1.0
855.0441	17.00	-.49	74225.846	1.5	85917.937	.5
855.0490	73.00	-2.72	12179.286	0.0	23874.522	0.0
855.0566	22.00	-2.44	14105.680	3.0	25797.600	3.0
855.1378	24.01	-3.71	53566.220	3.5	65257.030	3.5
855.1407	28.01	-4.41	120144.170	2.5	131834.940	2.5
855.1532	23.00	-.75	26249.480	1.5	37940.080	.5
855.1649	18.01	-3.66	189654.780	2.5	201345.220	1.5
855.1740	22.00	-4.52	15220.390	5.0	26910.705	6.0
855.2212	28.00	-3.23	50142.800	3.0	61832.470	4.0
855.2530	22.00	-3.78	27418.015	2.0	39107.250	1.0
855.2600	50.00	-.42	34763.391	0.0	46455.742	0.0
855.2790	25.00	-3.83	50341.300	4.5	62030.180	4.5
855.2884	26.00	-4.99	47136.058	2.0	58824.810	2.0
855.2885	29.01	-2.92	125230.600	3.0	136919.350	3.0
855.2988	24.00	-4.33	35501.260	3.0	47189.870	4.0
855.3038	10.01	-1.96	291202.030	3.5	302890.570	2.5
855.3229	24.00	-2.57	27223.050	2.0	38911.330	3.0
855.3659	22.00	-3.53	27614.667	4.0	39302.360	4.0
855.3851	26.02	-3.52	188013.400	4.0	199700.830	4.0
855.3939	27.00	-2.35	40345.950	2.5	52033.260	1.5
855.3990	18.01	-2.66	199981.940	1.5	211669.180	2.5
855.4034	25.01	-4.81	54938.100	1.0	66625.280	0.0
855.4115	25.01	-4.16	91018.300	3.0	102705.370	3.0
855.4486	22.00	-2.25	37172.947	1.0	48859.510	1.0
855.4605	27.00	-4.58	43263.570	1.5	54949.970	1.5
855.5007	17.00	-1.46	85244.330	.5	96930.181	.5
855.5038	22.00	-4.86	35454.051	4.0	47139.860	4.0
855.5505	24.00	-2.73	21856.940	3.0	33542.110	2.0
855.5513	25.00	-3.67	51546.270	4.5	63231.430	4.5
855.5534	20.00	-1.79	36575.119	2.0	48260.250	3.0
855.5601	25.01	-4.35	91018.300	3.0	102703.340	4.0
855.5872	26.01	-4.92	54904.500	3.5	66589.170	4.5
855.5904	14.00	-3.03	45293.629	2.0	56978.256	1.0
855.5967	24.00	-4.65	53117.540	4.0	64802.080	5.0
855.6106	28.01	-4.73	121227.800	2.5	132912.150	2.5
855.6464	20.00	-2.52	36575.119	2.0	48258.980	2.0
855.6715	22.00	-3.16	18287.560	4.0	29971.078	4.0
855.6776	14.00	-.73	47351.554	2.0	59034.988	3.0
855.6805	14.00	-.74	49933.775	3.0	61617.170	4.0
855.6853	27.00	-4.75	43263.570	1.5	54946.900	2.5
855.6904	10.01	-3.07	280768.520	.5	292451.780	1.5
855.6962	20.00	-3.69	36575.119	2.0	48258.300	1.0
855.7029	26.01	-3.52	58631.650	4.5	70314.740	4.5
855.7241	28.02	-4.59	121412.200	2.0	133095.000	3.0
855.7314	29.01	-1.62	136799.300	2.0	148482.000	3.0
855.7340	92.00	-1.13	10566.135	0.0	22252.009	0.0
855.7856	24.00	-.98	45707.360	6.0	57389.320	6.0
855.8061	26.01	-4.35	73189.160	1.5	84870.840	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
855.8582	25.00	.07	45940.930	2.5	57621.900	1.5
855.8582	18.01	-1.25	203151.200	2.5	214832.170	3.5
855.8692	7.01	-.71	209673.650	2.0	221354.470	2.0
855.8999	29.01	-2.55	134743.000	4.0	146423.400	4.0
855.9021	27.00	-2.08	34196.210	1.5	45876.580	2.5
855.9110	64.00	-1.55	10808.108	0.0	22491.566	0.0
855.9432	24.00	-4.60	43124.880	2.0	54804.690	1.0
855.9703	24.00	-4.69	48824.500	4.0	60503.940	4.0
855.9717	29.01	-2.11	136336.880	1.0	148016.300	1.0
855.9950	56.00	-.08	11292.053	0.0	22974.364	0.0
856.0006	26.00	-4.44	40534.180	3.0	52213.207	3.0
856.0540	41.00	-2.43	8630.355	0.0	20311.861	0.0
856.0773	7.01	-4.84	209673.650	2.0	221351.630	1.0
856.0868	10.01	-2.97	294333.220	.5	306011.070	.5
856.0897	20.02	-2.51	371120.690	4.0	382798.500	4.0
856.0977	26.00	-3.39	32873.623	4.0	44551.325	3.0
856.1110	24.00	-4.82	53073.900	3.0	64751.420	4.0
856.1169	20.02	-.88	371121.060	5.0	382798.500	4.0
856.1616	26.00	-2.17	46137.140	3.0	57813.970	3.0
856.1720	64.00	1.89	7581.807	0.0	19261.703	0.0
856.2128	26.00	-4.11	36079.353	3.0	47755.485	3.0
856.2181	25.00	-3.90	44814.730	1.5	56490.790	2.5
856.2540	24.00	.13	45707.360	6.0	57382.930	5.0
856.2548	18.01	-2.60	190106.230	1.5	201781.790	2.5
856.3494	26.02	1.02	198737.050	4.0	210411.320	5.0
856.3560	24.00	-4.67	36577.730	4.0	48251.910	3.0
856.3919	21.00	-3.17	24656.800	1.5	36330.490	2.5
856.3956	28.01	-2.03	106620.530	3.5	118294.170	3.5
856.4183	15.00	-3.31	68088.270	1.5	79761.600	2.5
856.4256	28.01	-3.45	118314.820	2.5	129988.050	2.5
856.4352	16.00	-1.23	70163.700	1.0	81836.800	2.0
856.5313	10.01	-.48	290803.820	.5	302475.610	.5
856.5365	18.01	-4.19	143371.350	1.5	155043.070	2.5
856.5480	16.00	-1.97	70165.237	2.0	81836.800	2.0
856.5480	16.00	-1.06	70165.237	2.0	81836.800	3.0
856.5489	29.01	-4.12	125247.800	2.0	136919.350	3.0
856.5541	22.00	-2.83	14028.470	2.0	25699.950	2.0
856.6033	20.02	-.97	371120.690	4.0	382791.500	3.0
856.6186	25.01	.48	86057.400	4.0	97728.000	3.0
856.6260	25.00	-2.96	51560.930	5.5	63231.430	4.5
856.6422	6.00	-2.91	77679.820	2.0	89350.100	2.0
856.6620	7.01	-2.18	202714.120	1.0	214384.130	2.0
856.7118	10.01	-2.69	301801.090	3.5	313470.420	2.5
856.7205	22.00	-3.84	27480.047	3.0	39149.260	2.0
856.7324	21.00	-4.39	33154.010	2.5	44823.060	1.5
856.7420	24.00	-.48	48824.500	4.0	60493.420	3.0
856.7486	26.01	-4.85	73016.330	3.5	84685.160	3.5
856.7508	10.01	-1.26	301801.090	3.5	313469.890	3.5
856.7625	23.00	-2.03	26437.680	1.5	38106.320	2.5
856.7640	27.00	-4.18	18775.010	.5	30443.630	1.5
856.7730	92.00	-1.94	4355.506	0.0	16027.209	0.0
856.7735	7.00	-.60	86137.320	.5	97805.810	1.5
856.7744	26.00	-2.48	39625.784	4.0	51294.262	3.0
856.7898	22.00	-3.86	31190.631	2.0	42858.900	3.0
856.8095	23.00	-4.18	19026.340	2.5	30694.340	3.5
856.8205	23.00	-5.07	14514.750	1.5	26182.600	.5
856.8393	28.00	-2.78	44206.185	3.0	55873.780	2.0
856.8418	26.02	.51	198737.050	4.0	210404.610	4.0
856.8540	40.00	-2.80	5807.341	0.0	17477.941	0.0
856.8595	23.00	-2.23	20789.130	2.5	32456.450	1.5
856.8602	7.01	-2.73	203162.480	0.0	214829.790	1.0
856.8771	15.00	-1.07	66544.120	2.5	78211.200	2.5
856.9522	28.00	-3.04	42585.296	4.0	54251.353	3.0
856.9564	25.00	-2.69	44523.450	3.5	56189.450	4.5
856.9660	27.00	-2.36	33439.720	4.5	45105.590	3.5
856.9674	28.01	-.58	123434.600	4.5	135100.450	3.5
856.9836	27.00	-2.56	42811.440	3.5	54477.070	3.5
856.9863	14.00	-2.48	50566.397	1.0	62231.990	2.0
856.9945	22.00	-2.14	17995.750	0.0	29661.232	1.0
857.0078	22.00	-3.39	37359.130	2.0	49024.430	3.0
857.0509	92.00	-1.11	8065.752	0.0	19733.670	0.0
857.0637	28.01	-4.90	104503.220	2.5	116167.760	1.5
857.0761	14.00	-2.59	49933.775	3.0	61598.145	2.0
857.1050	40.00	-2.07	12259.943	0.0	23927.125	0.0
857.1056	24.00	-4.51	53172.330	5.0	64836.300	6.0
857.1159	27.00	-6.15	14399.280	.5	26063.110	1.5
857.1188	16.00	-1.97	70173.010	3.0	81836.800	3.0
857.1188	16.00	-.90	70173.010	3.0	81836.800	4.0
857.1188	16.00	-3.51	70173.010	3.0	81836.800	2.0
857.1306	14.00	-2.11	49933.775	3.0	61597.404	3.0
857.1799	26.00	-2.46	40404.492	1.0	52067.450	2.0
857.1938	22.00	-3.88	20062.980	1.0	31725.750	1.0
857.2021	22.00	-2.07	27750.124	5.0	39412.780	5.0
857.2114	10.02	-4.94	398192.700	1.0	409855.230	1.0
857.2121	26.02	-.22	198737.050	4.0	210399.570	3.0
857.2474	27.00	-3.26	43242.950	2.5	54904.990	2.5
857.2658	10.01	-1.40	280989.530	1.5	292651.320	1.5
857.2930	18.01	-3.06	190592.170	1.5	202253.590	1.5
857.3139	90.00	-2.10	5484.711	0.0	17149.050	0.0
857.3555	23.00	-2.39	21646.390	3.5	33306.960	4.5
857.3570	26.00	-2.11	46313.610	2.0	57974.160	2.0
857.3664	26.00	-4.38	43022.969	4.0	54683.390	4.0
857.3979	14.00	-3.11	50566.397	1.0	62226.390	1.0
857.4033	25.00	-3.24	44696.290	2.5	56356.210	3.5
857.4047	29.01	-1.24	134743.000	4.0	146402.900	5.0
857.4129	18.01	.09	203007.690	1.5	214667.480	2.5
857.4488	8.02	-3.11	358667.400	1.0	370326.700	0.0
857.4503	24.00	-4.42	36558.550	2.0	48217.830	2.0
857.4525	27.00	-2.00	21780.470	5.5	33439.720	4.5
857.4610	92.00	-1.67	6210.629	0.0	17872.967	0.0
857.4790	6.00	-3.93	75253.970	1.0	86912.860	1.0
857.4827	25.01	-3.07	67910.260	4.0	79569.100	5.0
857.4931	22.00	-4.76	31489.451	4.0	43148.150	3.0
857.5150	10.02	-4.88	398196.830	2.0	409855.230	1.0
857.5151	25.01	-4.65	72648.800	4.0	84307.200	4.0
857.5245	17.00	-.15	72827.038	.5	84485.309	1.5
857.5276	27.00	-1.85	22475.360	4.5	34133.590	3.5
857.5364	28.01	-2.80	104081.040	4.5	115739.150	4.5
857.5738	12.00	-2.11	49346.729	1.0	61004.330	2.0
857.5746	6.00	-3.72	75255.270	2.0	86912.860	1.0
857.5870	41.00	-1.99	12259.943	0.0	23920.568	0.0
857.5920	73.00	-2.46	13227.833	0.0	24888.390	0.0
857.5967	24.00	-2.80	35398.020	4.0	47055.310	5.0
857.6032	20.00	-.99	35818.713	3.0	47475.915	3.0
857.6254	29.01	-3.07	138593.100	1.0	150250.000	2.0
857.6261	24.00	-4.23	35398.020	4.0	47054.910	4.0
857.6535	26.00	-3.06	37046.000	4.0	48702.518	4.0
857.7306	23.00	-6.06	14949.300	4.5	26604.770	3.5
857.7350	24.00	-3.90	46637.210	3.0	58292.620	4.0
857.8006	10.01	-.54	280797.260	2.5	292451.780	1.5
857.8028	17.00	-2.19	84132.262	2.5	95786.752	2.5
857.8058	18.00	-3.54	95399.870	1.0	107054.319	0.0
857.8226	28.01	-.77	106007.890	2.5	117662.110	1.5
857.8396	22.00	-2.44	13981.750	1.0	25635.740	1.0
857.8403	18.00	-1.01	114641.040	2.0	126295.020	3.0
857.8491	18.00	-2.35	114641.040	2.0	126294.900	3.0
857.9092	14.00	-1.96	48264.292	3.0	59917.336	2.0
857.9145	26.00	-4.19	40052.080	2.0	51705.052	2.0
857.9187	22.00	-2.80	31205.985	3.0	42858.900	3.0
857.9441	10.01	-2.25	282680.650	.5	294333.220	.5
857.9485	28.01	-3.69	101754.800	2.5	113407.310	2.5
857.9581	10.02	-4.63	398192.700	1.0	409845.080	2.0
857.9816	10.01	-.77	306011.070	.5	317663.130	1.5
857.9978	28.00	-1.76	42585.296	4.0	54237.136	4.0
858.0082	26.01	-4.02	54870.620	2.5	66522.320	2.5
858.0199	25.00	-4.47	50863.050	1.5	62514.590	2.5
858.0347	23.00	-.42	26352.590	2.5	38003.930	1.5
858.0524	8.02	.17	365723.900	1.0	377375.000	2.0
858.0730	29.01	-1.34	136336.880	1.0	147987.700	2.0
858.0789	22.01	-3.95	20951.770	2.5	32602.510	1.5
858.0818	10.02	-4.44	398196.830	2.0	409847.530	3.0
858.0995	24.00	-4.66	35398.020	4.0	47048.480	3.0
858.1124	22.00	-2.03	27498.975	3.0	39149.260	2.0
858.1643	21.00	-2.83	24866.180	1.5	36515.760	1.5
858.1702	8.02	-1.08	438517.500	4.0	450167.000	3.0
858.2180	18.00	-4.05	113426.050	2.0	125074.900	2.0
858.2268	26.00	-2.16	24118.815	4.0	35767.546	4.0
858.2438	18.01	-.74	190507.360	1.5	202155.860	2.5
858.2527	26.01	-4.15	58666.360	3.5	70314.740	4.5
858.2623	10.02	-4.26	398196.830	2.0	409845.080	2.0
858.2719	25.01	-3.59	67910.260	4.0	79558.380	4.0
858.2932	24.00	.33	45741.490	7.0	57389.320	6.0
858.3102	26.00	-4.67	47177.210	1.0	58824.810	2.0
858.3220	26.02	-4.84	188013.400	4.0	199660.840	5.0
858.3322	20.00	-.13	35818.713	3.0	47466.014	2.0
858.3618	25.01	-3.36	70497.440	4.0	82144.340	3.0
858.3655	18.01	-1.66	199959.620	2.5	211606.470	3.5
858.3876	18.00	-2.97	113426.050	2.0	125072.600	1.0
858.4210	40.00	-1.32	15002.299	0.0	26651.595	0.0
858.4229	26.01	-4.27	72650.630	4.5	84296.700	5.5
858.4679	24.01	-3.95	55081.700	1.5	66727.160	2.5
858.4776	26.00	-1.68	40404.492	1.0	52049.820	2.0
858.5060	74.00	-1.18	22342.133	0.0	33990.275	0.0
858.5262	18.01	-.67	190511.190	2.5	202155.860	2.5
858.5981	17.00	.25	72488.568	1.5	84132.262	2.5
858.6087	26.02	-4.97	201919.530	4.0	213563.080	5.0
858.6087	28.01	-1.20	121800.340	1.5	133443.890	2.5
858.6141	28.00	-2.16	43933.428	2.0	55576.905	3.0
858.6154	23.00	-2.13	20812.990	1.5	32456.450	1.5
858.6235	24.00	-4.19	48824.500	4.0	60467.850	5.0
858.6273	22.00	-3.97	34078.580	3.0	45721.878	4.0
858.6670	27.00	-.71	33462.830	2.5	45105.590	3.5
858.7258	14.00	-3.95	50499.838	2.0	62141.800	1.0
858.7658	27.00	-3.03	43263.570	1.5	54904.990	2.5
858.7703	28.01	-4.53	121227.800	2.5	132869.160	3.5
858.7813	16.01	-1.13	118146.500	1.5	129787.710	.5
858.7840	40.00	-2.12	11856.655	0.0	23501.027	0.0
858.8101	9.02	-4.01	395268.130	1.5	406908.950	1.5
858.8145	7.01	-1.58	203189.030	1.0	214829.790	1.0
858.8336	20.00	-2.95	35835.413	2.0	47475.915	3.0
858.8359	18.01	-4.84	202544.320	2.5	214184.790	3.5
858.8585	26.00	-1.78	48531.896	3.0	60172.060	4.0
858.8669	28.01	-1.48	94729.250	2.5	106369.300	1.5
858.8691	25.01	-4.30	67910.260	4.0	79550.280	3.0
858.9252	24.00	-4.53	31009.000	3.0	42648.260	3.0
858.9333	22.00	-4.73	27887.740	3.0	39526.890	2.0
858.9621	25.01	-4.50	70497.440	4.0	82136.200	4.0
858.9651	27.00	-2.12	33466.870	3.5	45105.590	3.5
858.9702	27.00	-.48	41225.760	4.5	52864.410	4.5
859.0086	18.00	-2.73	113020.390	3.0	124658.520	2.0
859.0411	23.00	-1.81	26604.770	3.5	38242.460	3.5
859.0485	25.00	-2.81	51445.650	1.5	63083.240	1.5
859.0735	10.01	-2.15	291202.030	3.5	302839.280	2.5
859.0846	17.01	-3.17	128621.900	1.0	140259.000	2.0
859.0940	57.00	-1.64	8388.382	0.0	20028.552	0.0
859.1075	10.02	-3.65	398210.740	3.0	409847.530	3.0
859.1215	20.02	-2.48	374138.900	4.0	385775.500	4.0
859.1370	56.01	-2.06	48258.590	0.0	59898.177	0.0
859.1474	9.02	-3.60	395268.130	1.5	406904.380	.5
859.1518	20.02	-.84	374139.310	5.0	385775.500	4.0
859.1636	23.00	-2.46	26122.040	3.5	37758.070	4.5
859.2067	26.00	-2.97	40404.492	1.0	52039.939	1.0
859.2397	17.01	-3.09	159574.200	2.0	171209.200	2.0
859.2597	18.01	.18	203197.440	3.5	214832.170	3.5
859.2670	25.00	-4.45	45754.270	3.5	57388.900	4.5
859.2885	10.02	-3.62	398210.740	3.0	409845.080	2.0
859.2902	26.00	-1.35	39969.830	3.0	51604.146	3.0
859.3002	22.00	-3.02	37090.650	0.0	48724.830	1.0
859.3016	14.00	-4.09	50189.389	2.0	61823.550	2.0
859.3047	25.00	-4.48	30419.610	2.5	42053.730	2.5
859.3320	18.00	-3.28	113426.050	2.0	125059.800	2.0
859.3999	7.00	-.30	86137.320	.5	97770.150	.5
859.4317	28.01	-4.34	117662.110	1.5	129294.510	2.5
859.4369	27.00	-3.02	40827.770	1.5	52460.100	2.5
859.4370	74.00	-2.14	18147.942	0.0	29783.466	0.0
859.4569	20.02	-2.39	374143.440	4.0	385775.500	4.0
859.4864	20.02	-3.93	374143.840	3.0	385775.500	4.0
859.5112	26.00	-4.85	42859.756	2.0	54491.080	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
859.5130	25.01	-4.07	43484.500	2.0	55115.800	2.0
859.5212	10.01	-2.10	301801.090	3.5	313432.280	3.5
859.5312	26.00	-4.84	46889.126	4.0	58520.180	4.0
859.5455	21.00	-4.52	33278.640	3.5	44909.500	2.5
859.5522	28.01	-.10	106133.140	1.5	117763.910	1.5
859.5647	20.00	-1.94	35835.413	2.0	47466.014	2.0
859.5796	10.01	-.54	301801.090	3.5	313431.490	4.5
859.5818	20.00	-4.93	35818.713	3.0	47449.083	2.0
859.5840	73.00	-2.64	13227.833	0.0	24861.367	0.0
859.5865	28.00	-2.49	42621.048	3.0	54251.353	3.0
859.5906	20.02	-.85	370957.650	5.0	382587.900	4.0
859.5960	14.00	-1.04	49933.775	3.0	61563.952	4.0
859.6113	27.00	-.97	42796.670	1.5	54426.640	1.5
859.6283	28.01	-4.72	120166.520	1.5	131796.260	2.5
859.6554	22.00	-4.55	37172.947	1.0	48802.320	0.0
859.7050	14.00	-1.37	49933.775	3.0	61562.477	3.0
859.7235	26.00	-3.48	42532.729	3.0	54161.182	3.0
859.7918	22.00	-1.88	34204.971	4.0	45832.500	5.0
859.8191	22.00	-1.79	18287.560	4.0	29914.720	3.0
859.8368	24.00	-3.15	45734.320	2.0	57361.240	3.0
859.8575	21.00	-2.00	24866.180	1.5	36492.820	.5
859.8686	18.01	-3.27	199959.620	2.5	211586.110	2.5
859.8745	24.01	-4.35	55023.300	2.5	66649.710	1.5
859.8852	26.00	-1.54	35379.189	5.0	47005.455	5.0
859.8864	23.00	-2.53	20830.200	.5	32456.450	1.5
859.8919	28.00	-3.11	30979.789	4.0	42605.964	3.0
859.9019	23.00	-.21	26480.280	3.5	38106.320	2.5
859.9100	46.00	-.09	37183.117	0.0	48812.241	0.0
859.9507	10.01	-.35	281025.940	2.5	292651.320	1.5
860.0009	22.00	-4.19	18287.560	4.0	29912.262	3.0
860.0565	14.00	-2.29	50602.440	0.0	62226.390	1.0
860.1061	22.00	-2.95	13981.750	1.0	25605.030	0.0
860.1079	22.00	-2.61	18145.400	2.0	29768.655	2.0
860.1327	24.00	-3.93	46524.840	2.0	58147.760	3.0
860.1571	7.01	-.73	209673.650	2.0	221296.240	2.0
860.1971	10.01	-.65	290803.820	.5	302425.870	1.5
860.2052	25.00	-.10	46083.890	1.5	57705.830	.5
860.2082	12.02	-2.67	570112.800	0.0	581734.700	1.0
860.2082	12.02	-2.67	570112.800	0.0	581734.700	1.0
860.2297	29.01	-3.67	117231.690	1.0	128853.300	2.0
860.2349	26.02	-3.05	186712.020	1.0	198333.560	2.0
860.2720	20.00	-1.20	35835.413	2.0	47456.452	1.0
860.3104	25.00	-2.60	34463.370	1.5	46083.890	1.5
860.3188	28.00	-4.37	42954.234	2.0	54574.640	1.0
860.3518	21.00	-4.00	24656.800	.5	36276.760	1.5
860.3518	21.00	-2.61	24656.800	1.5	36276.760	1.5
860.3552	26.00	-8.64	12560.933	3.0	24180.848	3.0
860.3563	26.01	-4.62	54902.420	1.5	66522.320	2.5
860.3589	22.00	-4.08	27907.026	2.0	39526.890	2.0
860.4007	15.02	-2.39	203782.700	3.5	215402.000	3.5
860.4007	15.02	-.85	203782.700	4.5	215402.000	3.5
860.4007	15.02	-.96	203782.700	3.5	215402.000	2.5
860.4022	18.01	-2.19	148620.070	1.5	160239.350	1.5
860.4229	10.01	-2.40	301801.090	3.5	313420.090	2.5
860.4254	17.00	-1.33	85735.091	1.5	97354.057	1.5
860.4325	7.01	-.85	202765.260	2.0	214384.130	2.0
860.4399	27.00	-1.97	39649.160	3.5	51267.930	4.5
860.4451	20.02	-.93	374138.900	4.0	385757.600	3.0
860.4454	9.00	-2.43	116987.394	3.5	128606.090	2.5
860.4481	7.01	-.65	209673.650	2.0	221292.310	3.0
860.4666	28.00	-2.50	44565.100	3.0	56183.510	4.0
860.5036	28.01	-1.16	108548.610	1.5	120166.520	1.5
860.5103	26.01	-3.39	54904.500	3.5	66522.320	2.5
860.5771	18.00	-2.52	107289.747	2.0	118906.665	2.0
860.6012	14.00	-2.13	48020.074	1.0	59636.667	1.0
860.6081	7.01	-2.33	209737.970	3.0	221354.470	2.0
860.6311	23.00	-3.63	19078.150	3.5	30694.340	3.5
860.6386	28.00	-.97	42621.048	3.0	54237.136	4.0
860.6674	29.01	-.64	110365.980	2.0	121981.680	2.0
860.7026	22.00	-3.32	14028.470	2.0	25643.695	3.0
860.7034	26.00	-2.01	40404.492	1.0	52019.706	1.0
860.7044	24.00	-4.38	46448.600	1.0	58063.800	2.0
860.7109	22.00	-2.42	35035.147	2.0	46650.260	3.0
860.7202	37.00	-2.09	19355.203	0.0	30973.380	0.0
860.7408	10.01	-3.15	301855.710	2.5	313470.420	2.5
860.7429	26.02	-2.12	189679.070	3.0	201293.750	2.0
860.7532	37.00	-3.04	19355.649	0.0	30973.381	0.0
860.7608	18.01	-.53	190106.230	1.5	201720.670	1.5
860.7799	10.01	-.96	301855.710	2.5	313469.890	3.5
860.7814	20.02	-3.86	374143.440	4.0	385757.600	3.0
860.7940	92.00	-2.05	0.000	0.0	11617.181	0.0
860.8111	20.02	-2.50	374143.840	3.0	385757.600	3.0
860.8118	20.02	.50	371447.580	1.0	383061.330	2.0
860.8178	20.00	.22	35835.413	2.0	47449.083	2.0
860.8460	26.02	-4.65	201892.440	5.0	213505.730	6.0
860.8712	24.00	-2.51	21810.840	1.0	33423.790	1.0
860.8934	18.01	-4.34	199959.620	2.5	211572.270	1.5
860.9142	29.01	-1.96	121981.680	2.0	133594.050	3.0
860.9727	12.00	-1.81	49346.729	1.0	60958.310	2.0
860.9928	22.00	-3.97	34078.580	3.0	45689.890	3.0
861.0002	24.00	-4.95	51059.790	4.0	62671.000	4.0
861.0240	40.00	-2.27	11856.655	0.0	23470.733	0.0
861.0343	23.00	-3.06	26004.220	2.5	37614.970	3.5
861.0980	71.00	-.72	22100.161	0.0	33713.241	0.0
861.1448	23.00	-3.33	19026.340	2.5	30635.600	2.5
861.1807	26.00	-2.05	22946.810	1.0	34555.586	0.0
861.1811	27.00	-2.62	33173.360	3.5	44782.130	4.5
861.2212	15.00	-1.42	68088.270	1.5	79696.500	1.5
861.2677	28.00	-4.04	44565.100	3.0	56172.704	3.0
861.2694	20.02	-.77	370957.520	6.0	382565.100	5.0
861.2791	20.02	-2.58	370957.650	5.0	382565.100	5.0
861.2924	22.00	-2.97	14028.470	2.0	25635.740	1.0
861.3162	28.01	-3.61	117872.780	2.5	129479.730	1.5
861.3259	74.00	-2.06	19680.435	0.0	31290.442	0.0
861.3444	23.00	-2.29	26397.360	.5	38003.930	1.5
861.3607	18.00	-2.50	113468.550	2.0	125074.900	2.0
861.3867	15.00	-4.93	65156.400	1.5	76762.400	.5
861.3891	26.00	-2.76	40231.312	2.0	51837.279	3.0
861.4480	74.00	-2.43	19680.435	0.0	31288.797	0.0
861.5225	18.01	-3.69	199981.940	1.5	211586.110	2.5
861.5314	18.00	-3.38	113468.550	2.0	125072.600	1.0
861.5503	17.00	-1.03	85735.091	1.5	97338.887	2.5
861.5900	37.00	-2.37	19355.649	0.0	30962.098	0.0
861.6234	26.00	-4.05	39625.784	4.0	51228.595	5.0
861.6710	24.00	-4.11	51059.790	4.0	62661.960	3.0
861.6718	26.01	-4.87	60441.050	1.5	72043.210	1.5
861.6792	28.01	-1.86	110573.360	2.5	122175.420	2.5
861.6874	16.00	-.41	67815.401	1.0	79417.350	0.0
861.7030	62.01	-1.66	11937.313	0.0	23542.240	0.0
861.7104	28.01	-2.32	94067.140	1.5	105668.780	2.5
861.7215	28.01	-3.91	117872.780	2.5	129474.270	3.5
861.7394	27.00	-4.08	43295.320	4.5	54896.570	3.5
861.7609	27.00	-2.36	41101.800	.5	52702.760	1.5
861.7995	23.00	-1.99	26505.880	2.5	38106.320	2.5
861.8025	25.00	-3.86	51305.410	2.5	62905.810	2.5
861.8047	22.00	-3.74	29914.720	3.0	41515.090	4.0
861.8536	22.00	-1.70	27614.667	4.0	39214.380	3.0
861.8551	22.00	-2.48	18061.540	1.0	29661.232	1.0
861.8551	28.00	-4.39	47030.148	3.0	58629.840	2.0
861.8620	10.01	-2.68	280947.100	1.5	292546.700	.5
861.8767	28.00	-4.97	47030.148	3.0	58629.550	3.0
861.9013	15.00	-1.47	66343.330	.5	77942.400	1.5
861.9199	18.00	-2.10	112750.220	4.0	124349.040	3.0
861.9318	25.01	-4.38	55696.500	4.0	67295.160	4.0
861.9348	28.01	-.59	115081.360	4.5	126679.980	4.5
861.9571	25.01	-4.79	70546.020	4.0	82144.340	3.0
861.9860	26.01	-4.36	60445.280	2.5	72043.210	1.5
862.0083	28.00	-2.02	42653.723	2.0	54251.353	3.0
862.0106	25.02	-4.29	124823.900	4.5	136421.500	5.5
862.0457	18.00	-2.51	107054.319	0.0	118651.447	1.0
862.0462	18.01	-3.96	194800.180	4.5	206397.300	3.5
862.0470	18.01	-1.70	194800.180	4.5	206397.290	4.5
862.0492	28.01	-4.15	120199.180	1.5	131796.260	2.5
862.0849	14.02	-3.29	242410.880	2.0	254007.480	3.0
862.0924	17.01	-3.13	128662.500	2.0	140259.000	2.0
862.0926	22.00	-3.62	20209.444	2.0	31805.940	2.0
862.1139	14.02	-1.74	242411.270	3.0	254007.480	3.0
862.1147	16.01	-4.76	140708.510	2.5	152304.710	3.5
862.1221	29.01	-3.96	118163.500	2.0	129759.600	1.0
862.1385	9.02	-.82	453343.620	2.5	464939.500	2.5
862.1414	23.00	-6.96	14910.040	3.5	26505.880	2.5
862.1459	14.02	-.68	242411.700	4.0	254007.480	3.0
862.1613	26.00	-2.14	23783.617	5.0	35379.189	5.0
862.1645	22.00	-4.03	35685.160	6.0	47280.690	5.0
862.2217	28.01	-.51	122120.370	5.5	133715.130	4.5
862.2321	28.01	.62	115085.360	3.5	126679.980	4.5
862.2582	22.00	-2.73	14105.680	3.0	25699.950	2.0
862.3005	24.00	-4.55	37883.340	2.0	49477.040	1.0
862.3005	24.00	-4.07	37883.340	2.0	49477.040	2.0
862.3288	28.01	-4.92	121437.680	5.5	133031.000	4.5
862.3437	14.02	-1.74	242410.880	2.0	254004.000	2.0
862.3556	22.00	-4.53	28791.620	1.0	40384.580	1.0
862.3697	28.01	-4.01	120203.490	2.5	131796.260	2.5
862.3727	14.02	-.84	242411.270	3.0	254004.000	2.0
862.3816	18.01	-.78	189437.690	.5	201030.300	.5
862.4220	57.00	-1.93	6936.547	0.0	18531.799	0.0
862.4374	28.01	-3.22	104147.290	5.5	115739.150	4.5
862.4828	26.02	-1.52	188109.580	3.0	199700.830	4.0
862.4828	18.00	-3.17	113468.550	2.0	125059.800	2.0
862.4925	14.02	-1.01	242410.880	2.0	254002.000	1.0
862.5453	28.01	-1.70	122790.410	4.5	134380.820	3.5
862.5513	18.01	-3.97	199981.940	1.5	211572.270	1.5
862.5602	26.02	-3.64	188013.400	4.0	199603.610	4.0
862.6009	22.00	-2.61	37325.407	2.0	48915.070	2.0
862.6075	26.00	-4.56	42859.756	2.0	54449.330	1.0
862.6324	16.00	-.54	67815.401	1.0	79404.640	1.0
862.6928	28.00	-3.49	45122.460	1.0	56710.889	2.0
862.7247	28.02	-3.56	121802.800	3.0	133390.800	3.0
862.7359	24.00	-2.91	35398.020	4.0	46985.870	5.0
862.7396	17.01	-3.14	161634.900	2.0	173222.700	3.0
862.7902	18.00	-3.46	111667.870	0.0	123254.990	1.0
862.8379	15.00	-2.34	66360.120	1.5	77946.600	2.5
862.8386	23.00	-3.73	26344.940	4.5	37931.410	5.5
862.8401	26.01	-4.22	49506.990	1.5	61093.440	2.5
862.8654	23.00	-3.01	26171.960	4.5	37758.070	4.5
862.8744	24.00	-3.71	33762.740	6.0	45348.730	6.0
862.9236	7.00	.09	86220.480	1.5	97805.810	1.5
862.9293	22.00	-3.26	29971.078	4.0	41556.330	5.0
862.9482	10.03	-4.10	636475.000	1.5	648060.000	1.5
862.9601	14.00	-2.46	49060.601	1.0	60645.441	2.0
862.9825	22.00	-4.59	28882.440	3.0	40466.979	2.0
863.0554	18.01	-4.03	172213.800	1.5	183797.360	2.5
863.0845	25.00	-3.55	50931.420	2.5	62514.590	2.5
863.1098	18.01	-3.51	189040.870	1.5	200623.700	.5
863.1508	15.00	-1.96	66360.120	1.5	77942.400	1.5
863.1791	26.02	-4.60	188013.400	4.0	199595.300	3.0
863.2223	28.01	-4.49	121862.570	3.5	133443.890	2.5
863.2431	26.00	-2.26	33095.922	4.0	44676.963	4.0
863.2820	62.01	-1.41	13953.751	0.0	25537.451	0.0
863.2908	16.00	-.06	67824.238	2.0	79404.640	1.0
863.3033	22.00	-4.04	35559.627	5.0	47139.860	4.0
863.3193	10.02	-3.53	379834.000	1.0	391414.020	2.0
863.3933	20.00	.04	35896.889	4.0	47475.915	3.0
863.4378	25.00	-3.94	30354.210	3.5	41932.640	3.5
863.4564	9.01	-3.24	258930.110	2.0	270508.290	2.0
863.4609	9.02	.45	453343.620	2.5	464921.740	3.5
863.4727	26.00	-3.12	34017.084	1.0	45595.046	0.0
863.4840	17.00	-1.34	90948.530	1.5	102526.340	2.5
863.4974	28.01	-3.97	107737.810	1.5	119315.440	2.5
863.5153	18.01	-3.95	179592.130	2.5	191169.520	1.5
863.5340	18.01	-.66	192556.840	2.5	204133.980	2.5
863.5594	10.01	-2.28	291495.040	2.5	303071.840	2.5
863.5608	28.00	-3.18	45281.152	3.0	56857.933	4.0
863.5765	10.01	-1.35	301855.710	2.5	313432.280	3.5
863.6020	22.00	-4.33	35454.051	4.0	47030.280	3.0
863.6153	10.01	-.36	290371.950	2.5	301948.000	1.5
863.6257	24.00	-2.61	21847.880	2.0	33423.790	1.0
863.6333	22.00	-3.12	30039.211	5.0	41615.020	6.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
863.6451	28.01	-1.56	105499.050	3.5	117074.700	3.5
863.6526	26.00	-3.26	36940.600	2.0	48516.150	1.0
863.6636	14.00	-3.02	50566.397	1.0	62141.800	1.0
863.6788	18.01	-2.92	194822.100	3.5	206397.300	3.5
863.6795	18.01	-.90	194822.100	3.5	206397.290	4.5
863.6995	28.00	-2.03	31031.042	3.0	42605.964	3.0
863.7608	15.00	-1.29	64239.500	.5	75813.600	.5
863.7659	26.00	-4.29	47136.058	2.0	58710.090	3.0
863.8153	28.01	-4.31	120222.890	1.5	131796.260	2.5
863.8272	23.00	-5.83	14548.830	2.5	26122.040	3.5
863.8324	7.01	.24	209737.970	3.0	221311.110	4.0
863.8470	57.00	-1.45	8388.382	0.0	19964.506	0.0
863.8705	23.00	-3.98	25930.510	1.5	37503.140	2.5
863.9452	28.01	-2.70	110573.360	2.5	122144.990	2.5
863.9885	18.00	-2.72	113468.550	2.0	125039.600	1.0
864.0060	72.00	-1.84	6533.259	0.0	18107.253	0.0
864.0064	7.01	-3.91	203258.980	2.0	214829.790	1.0
864.0184	25.01	-3.89	55115.800	2.0	66686.450	3.0
864.0490	23.00	-5.65	14910.040	3.5	26480.280	3.5
864.0669	13.01	.10	95348.200	0.0	106918.200	1.0
864.0871	9.02	.30	453369.770	1.5	464939.500	2.5
864.1595	24.01	-4.26	38269.670	3.5	49838.430	4.5
864.1705	17.00	-2.38	84132.262	2.5	95700.874	3.5
864.1804	26.01	-3.34	50157.610	4.5	61726.090	3.5
864.2155	24.01	-4.35	55081.700	1.5	66649.710	1.5
864.2394	28.00	-3.44	47424.830	1.0	58992.520	2.0
864.2670	63.00	-.05	19357.805	0.0	30928.303	0.0
864.2880	18.00	-3.46	111818.090	1.0	123385.130	0.0
864.3418	18.01	-2.40	203344.980	1.5	214911.300	2.5
864.3470	23.00	-2.29	26437.680	1.5	38003.930	1.5
864.3480	60.01	-2.11	9598.245	0.0	21167.659	0.0
864.3949	27.00	-4.04	43295.320	4.5	54860.930	4.5
864.3994	10.01	-.70	306262.770	1.5	317828.320	.5
864.4180	29.01	-1.09	139217.300	2.0	150782.600	2.0
864.4405	29.01	-4.81	137077.600	3.0	148642.600	2.0
864.4868	10.01	-2.52	301855.710	2.5	313420.090	2.5
864.5219	27.00	-4.78	43425.710	2.5	54989.620	3.5
864.5306	26.00	-2.60	46410.366	1.0	57974.160	2.0
864.5310	90.00	-1.55	13873.093	0.0	25440.058	0.0
864.5444	21.00	-4.93	25584.640	2.5	37148.250	1.5
864.5558	26.00	-4.48	40207.120	3.0	51770.577	3.0
864.5608	25.00	-4.62	56189.450	4.5	67752.840	5.5
864.5653	10.01	-3.72	301855.710	2.5	313419.040	1.5
864.6104	17.00	-1.99	85917.937	.5	97480.664	1.5
864.6349	29.01	-1.91	136799.300	2.0	148361.700	1.0
864.6371	14.00	-1.94	50054.800	4.0	61617.170	4.0
864.6909	17.00	-1.42	85442.430	1.5	97004.081	1.5
864.7575	25.01	-4.34	55115.800	2.0	66676.560	2.0
864.7807	26.00	-1.82	46137.140	3.0	57697.590	4.0
864.8265	16.00	-1.72	67815.401	1.0	79375.240	2.0
864.8465	10.01	-2.60	280473.580	1.5	292033.150	2.5
864.8465	14.00	-.30	50054.800	4.0	61614.370	5.0
864.8750	27.00	-3.68	18389.570	1.5	29948.760	2.5
864.8967	26.02	-3.17	188955.560	3.0	200514.460	4.0
864.9064	25.01	-4.30	43557.030	1.0	55115.800	2.0
864.9154	21.00	-2.82	25014.150	2.5	36572.800	2.5
864.9438	7.01	-1.74	209737.970	3.0	221296.240	2.0
864.9625	28.00	-4.18	47030.148	3.0	58588.168	3.0
864.9925	11.00	-1.99	25739.991	.5	37297.610	1.5
865.0052	23.00	-4.50	19078.150	3.5	30635.600	2.5
865.0261	10.01	-1.09	280989.530	1.5	292546.700	.5
865.0486	18.01	-1.95	192556.840	2.5	204113.710	1.5
865.0891	11.00	-2.29	25739.991	.5	37296.320	.5
865.1085	22.00	-4.37	28828.510	2.0	40384.580	1.0
865.1182	22.00	-4.38	37359.130	2.0	48915.070	2.0
865.1249	24.00	-4.88	31009.000	3.0	42564.850	4.0
865.1492	22.00	-3.64	13981.750	1.0	25537.276	1.0
865.1541	23.01	-9.07	23391.090	5.0	34946.550	4.0
865.2133	28.01	-2.86	98467.250	3.5	110021.920	4.5
865.2298	24.00	-2.75	27176.220	1.0	38730.670	2.0
865.2380	7.01	-1.74	209737.970	3.0	221292.310	3.0
865.2496	26.00	-2.54	33507.102	3.0	45061.287	3.0
865.2702	28.01	-1.18	94729.250	2.5	106283.160	2.5
865.2897	24.00	-3.19	35501.260	3.0	47054.910	4.0
865.2934	29.01	-3.83	137077.600	3.0	148631.200	3.0
865.3316	28.01	-4.73	98122.630	.5	109675.720	.5
865.3383	7.01	-.21	209673.650	2.0	221226.650	3.0
865.3466	24.00	-4.21	37233.500	5.0	48786.390	5.0
865.3525	26.00	-4.46	47271.999	1.0	58824.810	2.0
865.3563	24.00	-4.09	35572.940	2.0	47125.700	3.0
865.3608	28.01	-1.03	108763.320	.5	120316.020	.5
865.3691	6.00	-3.12	77679.820	2.0	89232.410	1.0
865.3702	22.00	-4.71	15220.390	5.0	26772.965	5.0
865.3956	22.00	-1.65	27750.124	5.0	39302.360	4.0
865.4035	23.00	-4.09	21603.170	4.5	33155.300	4.5
865.4083	26.00	-3.86	40052.080	2.0	51604.146	3.0
865.4220	22.00	-3.47	37172.947	1.0	48724.830	1.0
865.4428	26.00	-3.68	26623.726	2.0	38175.332	3.0
865.4587	22.00	-2.36	37172.947	1.0	48724.340	2.0
865.4620	25.00	.40	45754.270	3.5	57305.620	3.5
865.4881	16.00	-.54	67824.238	2.0	79375.240	2.0
865.4890	9.01	-2.60	278159.210	3.0	289710.200	2.0
865.5125	26.00	-4.14	46720.824	4.0	58271.500	5.0
865.5316	27.00	-2.72	39649.160	3.5	51199.580	3.5
865.5579	10.01	-1.30	291968.140	.5	303518.210	1.5
865.5849	27.00	-4.98	41225.760	4.5	52775.470	4.5
865.5878	7.00	-.60	86220.480	1.5	97770.150	.5
865.6058	26.02	-2.77	188955.560	3.0	200504.990	3.0
865.6283	18.00	-3.06	114975.070	1.0	126524.200	0.0
865.6545	10.01	-1.01	291202.030	3.5	302750.810	3.5
865.6583	25.02	-.39	181949.340	2.5	193498.070	3.5
865.6621	26.00	-2.36	40491.260	0.0	52039.939	1.0
865.6910	9.00	-2.87	117164.006	2.5	128712.300	1.5
865.6920	27.00	-4.33	43398.620	3.5	54946.900	2.5
865.7355	18.01	-2.82	194800.180	4.5	206347.880	4.5
865.7393	18.01	-.50	194800.180	4.5	206347.830	5.5
865.7715	24.00	-3.88	35501.260	3.0	47048.480	3.0
865.7790	9.01	-2.43	278159.210	3.0	289706.330	3.0
865.7865	24.00	-3.19	43124.880	2.0	54671.900	1.0
865.8045	27.00	-4.18	21920.090	4.5	33466.870	3.5
865.8562	28.01	-4.98	120250.170	3.5	131796.260	2.5
865.8691	26.00	-3.50	43137.472	3.0	54683.390	4.0
865.9103	15.00	-1.62	66343.330	.5	77888.700	1.5
865.9170	26.02	-2.96	186791.780	2.0	198337.060	3.0
865.9350	25.00	.19	45940.930	2.5	57485.970	2.5
865.9950	24.00	-4.74	31364.330	3.0	42908.570	4.0
866.0107	26.01	-8.21	27314.930	3.5	38858.960	2.5
866.0121	22.00	-3.86	29971.078	4.0	41515.090	4.0
866.0452	7.01	-.80	202714.120	1.0	214257.690	1.0
866.0513	28.01	-2.75	122837.330	4.5	134380.820	3.5
866.1090	23.00	-2.58	26397.360	.5	37940.080	.5
866.1177	14.00	-2.50	50054.800	4.0	61597.404	3.0
866.1796	26.02	-3.36	186791.780	2.0	198333.560	2.0
866.1833	22.00	-3.78	35652.950	3.0	47194.680	4.0
866.1841	56.01	-.77	48258.590	0.0	59803.480	0.0
866.1907	26.00	-1.76	17927.378	1.0	29469.010	2.0
866.2055	26.00	-4.58	32873.623	4.0	44415.057	4.0
866.2141	20.01	-.73	13650.190	1.5	25191.510	.5
866.2381	29.01	-1.00	139241.600	1.0	150782.600	2.0
866.2831	28.00	-4.44	45281.152	3.0	56821.553	3.0
866.3056	12.00	-3.04	49346.729	1.0	60886.830	2.0
866.3057	29.01	-2.13	134675.600	2.0	146215.700	1.0
866.3065	22.00	-4.58	31184.021	1.0	42724.110	2.0
866.3578	28.00	-4.48	47686.625	0.0	59226.030	1.0
866.3612	14.00	-3.58	50602.440	0.0	62141.800	1.0
866.3619	20.02	-4.49	359520.600	2.0	371059.950	3.0
866.3684	26.00	-1.60	40231.312	2.0	51770.577	3.0
866.3913	24.00	-4.13	46524.840	2.0	58063.800	2.0
866.4355	10.01	-.57	306243.420	7.5	317781.790	1.5
866.4385	7.00	-1.82	93581.520	.5	105119.850	1.5
866.4461	15.00	-3.70	65373.470	.5	76911.700	.5
866.4528	26.01	-4.98	50187.950	3.5	61726.090	3.5
866.4622	22.00	-3.43	14105.680	3.0	25643.695	3.0
866.4626	25.00	-.11	46083.890	1.5	57621.900	1.5
866.4633	10.01	-.26	306243.420	2.5	317781.420	2.5
866.4666	9.00	-2.61	116987.394	3.5	128525.350	2.5
866.4694	27.00	-2.65	41225.760	4.5	52763.680	3.5
866.4994	28.01	-4.85	121476.560	6.5	133014.080	5.5
866.5500	90.00	-1.92	7420.492	0.0	18960.507	0.0
866.5520	18.01	-3.30	194800.180	4.5	206337.000	3.5
866.6113	18.01	-2.31	194861.270	2.5	206397.300	3.5
866.6211	25.00	-.21	46169.930	.5	57705.830	.5
866.6211	23.00	-2.41	20812.990	1.5	32348.890	.5
866.6774	25.00	-4.88	56356.210	3.5	67891.360	3.5
866.6782	26.00	-4.20	36940.600	2.0	48475.740	3.0
866.7052	29.01	-3.93	125230.600	3.0	136765.380	4.0
866.7379	14.00	-2.02	48102.323	2.0	59636.667	1.0
866.7561	22.00	-3.43	37325.407	2.0	48859.510	1.0
866.7569	26.00	-4.13	42532.729	3.0	54066.821	2.0
866.7725	9.00	-2.80	117164.006	2.5	128697.890	2.5
866.7758	26.00	-4.09	42532.729	3.0	54066.570	4.0
866.7940	18.00	-.93	94553.707	0.0	106087.305	1.0
866.8030	22.00	-3.59	31190.631	2.0	42724.110	2.0
866.8110	90.00	-1.62	12743.888	0.0	24280.428	0.0
866.8147	16.00	.21	67841.917	3.0	79375.240	2.0
866.8225	28.01	-1.76	122847.600	3.5	134380.820	3.5
866.8255	10.01	.22	305364.030	4.5	316897.210	3.5
866.8450	10.01	-.26	280268.960	2.5	291801.880	1.5
866.8525	27.00	-2.42	41101.800	.5	52634.620	.5
866.8610	26.00	-4.90	43079.013	1.0	54611.720	2.0
866.8629	64.00	-1.40	6936.547	0.0	18472.397	0.0
866.8683	28.01	-3.46	99040.750	1.5	110573.360	2.5
866.8780	26.00	-3.75	43022.969	4.0	54555.450	4.0
866.8932	26.00	-2.93	33801.555	2.0	45333.834	2.0
866.9082	10.01	-1.32	305365.130	3.5	316897.210	3.5
866.9443	13.01	-.91	138811.900	2.0	150343.500	2.0
866.9443	13.01	-.18	138811.900	1.0	150343.500	2.0
866.9443	13.01	-.38	138811.900	2.0	150343.500	3.0
866.9443	13.01	-2.46	138811.900	3.0	150343.500	2.0
866.9443	13.01	-1.28	138811.900	3.0	150343.500	3.0
866.9443	13.01	.15	138811.900	3.0	150343.500	4.0
866.9503	9.01	-2.71	235150.580	2.0	246682.100	2.0
866.9863	23.00	-4.33	30832.580	2.5	42363.620	3.5
866.9908	23.00	-5.23	14949.300	4.5	26480.280	3.5
867.0131	16.00	-.94	63445.115	1.0	74975.800	0.0
867.0187	24.00	-3.48	31377.960	4.0	42908.570	4.0
867.0194	28.01	-4.16	117763.910	1.5	129294.510	2.5
867.0299	25.00	-4.42	51552.780	.5	63083.240	1.5
867.0574	16.00	-.59	63445.115	1.0	74975.210	1.0
867.0766	25.01	-4.26	55371.300	3.0	66901.140	2.0
867.0871	13.01	-.33	133435.000	2.0	144964.700	3.0
867.1235	16.00	-.70	63445.115	1.0	74974.330	2.0
867.1247	17.01	-3.78	128729.800	3.0	140259.000	2.0
867.1412	25.01	-4.37	55115.800	2.0	66644.780	1.0
867.1420	28.01	-1.68	106133.140	1.5	117662.110	1.5
867.1660	18.01	-2.78	185093.230	4.5	196621.880	3.5
867.1661	37.00	-2.53	20132.510	0.0	31664.326	0.0
867.1713	15.00	-2.18	66360.120	1.5	77888.700	1.5
867.1814	26.00	-2.36	40491.260	0.0	52019.706	1.0
867.1864	26.01	-3.11	49506.990	1.5	61035.370	.5
867.1984	26.02	-2.98	189679.070	3.0	201207.290	4.0
867.2110	57.00	-1.16	9840.217	0.0	21371.436	0.0
867.2556	15.00	-.33	66813.040	1.5	78340.500	2.5
867.2563	28.01	-3.40	120268.810	3.5	131796.260	2.5
867.2627	20.00	-4.69	36731.615	1.0	48258.980	2.0
867.2631	24.00	-2.73	21810.840	1.0	33338.200	0.0
867.2634	9.00	-1.25	116987.394	3.5	128514.750	3.5
867.3139	20.00	-4.79	36731.615	1.0	48258.300	1.0
867.3203	20.02	-3.56	371061.300	3.0	382587.900	4.0
867.3241	27.00	-1.35	42988.120	3.5	54514.670	3.5
867.3350	26.00	-4.16	42859.756	2.0	54386.160	1.0
867.3594	23.00	-4.28	17242.050	5.5	28768.130	4.5
867.3602	10.01	-3.87	302192.920	4.5	313718.990	3.5
867.3820	18.01	-.86	194822.100	3.5	206347.880	4.5
867.3955	29.01	-1.20	139217.300	2.0	150742.900	3.0
867.3956	10.00	-4.22	159534.620	1.0	171060.220	2.0
867.4430	57.00	-1.73	3468.273	0.0	14996.408	0.0
867.4617	17.00	-2.30	85735.091	1.5	97259.811	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
867.4753	26.00	-1.89	22838.320	2.0	34362.860	1.0
867.4753	25.01	-3.79	91178.800	4.0	102703.340	4.0
867.4776	18.01	-.14	190196.160	.5	201720.670	1.5
867.4860	64.00	-1.50	11211.395	0.0	22738.959	0.0
867.4934	13.01	-1.39	133440.400	3.0	144964.700	3.0
867.4934	13.01	-.43	133440.400	3.0	144964.700	4.0
867.4934	13.01	-.62	133440.400	3.0	144964.700	4.0
867.4941	28.01	-3.60	120271.970	2.5	131796.260	2.5
867.5039	27.00	-1.40	34352.420	1.5	45876.580	2.5
867.5374	22.00	-1.30	8602.340	2.0	20126.055	3.0
867.5529	29.01	-3.34	125230.600	3.0	136754.110	2.0
867.5544	28.01	-4.60	121294.670	4.5	132818.160	4.5
867.5694	9.02	-3.22	395385.660	2.5	406908.950	1.5
867.5702	10.00	-4.20	159534.620	1.0	171057.900	1.0
867.5745	26.00	-2.38	40231.312	2.0	51754.534	1.0
867.5828	26.00	-4.84	29371.860	3.0	40894.972	2.0
867.6086	7.01	.16	202861.360	3.0	214384.130	2.0
867.6282	10.01	-.48	292451.780	1.5	303974.290	1.5
867.6349	10.01	-1.14	301948.000	1.5	313470.420	2.5
867.6364	28.02	-3.10	121802.800	3.0	133325.200	4.0
867.7163	37.00	-3.11	20132.510	0.0	31657.014	0.0
867.7434	27.00	-2.41	39649.160	3.5	51170.140	4.5
867.8323	27.00	-4.47	42269.320	4.5	53789.120	3.5
867.8404	18.00	-3.14	107131.755	1.0	118651.447	1.0
867.8410	26.00	-4.65	42859.756	2.0	54379.440	3.0
867.8526	26.01	-4.50	60445.280	2.5	71964.810	2.5
867.8579	27.00	-2.20	42269.320	4.5	53788.780	4.5
867.8835	22.00	-3.92	29818.310	3.0	41337.430	2.0
867.8910	10.01	-.77	306262.770	1.5	317781.790	1.5
867.8912	16.00	-1.06	63456.192	2.0	74975.210	1.0
867.9006	26.00	-4.61	37409.530	1.0	48928.423	2.0
867.9083	18.02	-4.68	239193.480	1.0	250712.270	2.0
867.9099	28.01	-4.97	89100.490	3.5	100619.260	4.5
867.9159	23.00	-2.42	20830.200	.5	32348.890	.5
867.9189	10.01	-1.39	306262.770	1.5	317781.420	2.5
867.9319	14.00	-2.51	51612.012	0.0	63130.490	1.0
867.9575	16.00	-.48	63456.192	2.0	74974.330	2.0
867.9585	22.00	-3.45	31205.985	3.0	42724.110	2.0
867.9619	26.00	-2.62	40052.080	2.0	51570.160	3.0
867.9935	25.00	-4.48	34423.270	3.5	45940.930	2.5
867.9965	26.00	-4.29	24338.766	3.0	35856.386	2.0
868.0026	18.01	-1.67	200151.640	1.5	211669.180	2.5
868.0056	8.01	-1.17	254481.500	3.5	265999.000	3.5
868.0056	8.01	-1.26	254481.500	3.5	265999.000	4.5
868.0084	14.00	-1.00	47284.061	1.0	58801.524	1.0
868.0093	18.01	-3.43	147875.860	2.5	159393.310	1.5
868.0131	13.01	-3.19	133447.300	4.0	144964.700	3.0
868.0131	13.01	-1.62	133447.300	4.0	144964.700	4.0
868.0131	13.01	-1.76	133447.300	4.0	144964.700	4.0
868.0131	13.01	-.10	133447.300	4.0	144964.700	5.0
868.0282	7.00	.42	83364.590	2.5	94881.790	3.5
868.0343	22.00	-4.44	30039.211	5.0	41556.330	5.0
868.0372	10.01	.11	305365.130	3.5	316882.210	2.5
868.0427	16.00	-.27	63456.192	2.0	74973.200	3.0
868.0503	22.00	-4.97	34204.971	4.0	45721.878	4.0
868.0531	20.02	-1.39	359543.080	4.0	371059.950	3.0
868.0548	14.00	-2.34	49188.617	2.0	60705.464	3.0
868.0791	26.00	-2.54	33765.291	2.0	45281.816	2.0
868.0956	22.00	-3.94	20209.444	2.0	31725.750	1.0
868.0976	18.01	-3.85	203151.200	2.5	214667.480	2.5
868.1214	26.00	-3.55	42859.756	2.0	54375.719	2.0
868.1313	22.00	-4.10	18145.400	2.0	29661.232	1.0
868.1812	24.00	-2.96	31393.400	5.0	42908.570	4.0
868.1978	20.02	-2.28	348028.130	3.0	359543.080	4.0
868.2015	18.01	-1.93	194822.100	3.5	206337.000	3.5
868.2113	18.01	-3.71	194822.100	3.5	206336.870	2.5
868.2443	22.00	-2.46	37325.407	2.0	48839.740	3.0
868.2468	18.01	-2.54	194883.000	3.5	206397.300	3.5
868.2475	18.01	-1.50	194883.000	3.5	206397.290	4.5
868.2583	28.00	-3.46	43258.792	4.0	54772.940	3.0
868.2988	22.00	-1.57	8492.421	1.0	20006.032	2.0
868.3071	23.01	-1.88	44657.990	2.0	56171.490	1.0
868.3328	26.01	-4.24	50212.930	2.5	61726.090	3.5
868.3381	26.00	-4.73	47197.000	2.0	58710.090	3.0
868.3403	7.00	.14	83317.800	1.5	94830.860	2.5
868.3901	25.01	.37	86897.700	3.0	98410.100	2.0
868.3992	26.02	-3.01	189011.840	4.0	200524.120	5.0
868.4224	22.00	-3.79	13981.750	1.0	25493.722	2.0
868.4633	9.01	-3.22	235150.580	2.0	246662.010	1.0
868.5297	24.00	-3.54	46637.210	3.0	58147.760	3.0
868.5350	24.00	-4.65	31028.330	2.0	42538.810	3.0
868.5521	17.00	-4.60	84485.309	1.5	95995.561	.5
868.5672	22.00	-1.80	29971.078	4.0	41481.130	5.0
868.5848	24.00	-4.62	46448.600	1.0	57958.420	0.0
868.6044	24.00	-3.27	46783.060	4.0	58292.620	4.0
868.6149	7.00	-.27	83284.040	.5	94793.460	1.5
868.6281	17.00	-1.42	74225.846	1.5	85735.091	1.5
868.6293	26.02	-3.43	189784.520	2.0	201293.750	2.0
868.6351	14.00	-1.20	50054.800	4.0	61563.952	4.0
868.6413	10.00	-4.06	159534.620	1.0	171043.690	2.0
868.6613	22.00	-3.54	14028.470	2.0	25537.276	1.0
868.6729	26.00	-2.39	40231.312	2.0	51739.964	2.0
868.7244	26.00	-4.70	21999.132	4.0	33507.102	3.0
868.7465	14.00	-2.73	50054.800	4.0	61562.477	3.0
868.7508	24.00	-2.09	27223.050	2.0	38730.670	2.0
868.7969	24.00	-3.82	35398.020	4.0	46905.030	4.0
868.8059	28.01	-4.65	110573.360	2.5	122080.250	2.5
868.8354	8.01	-2.37	254481.500	3.5	265988.000	2.5
868.8497	29.01	-3.83	125247.800	2.0	136754.110	2.0
868.8498	22.00	-4.01	34204.971	4.0	45711.280	4.0
868.8618	28.01	-4.74	92792.080	3.5	104298.230	4.5
868.8632	26.00	-1.41	17550.180	3.0	29056.312	3.0
868.8697	22.00	-2.90	24694.895	4.0	36200.940	5.0
868.9207	6.00	-2.06	72610.720	2.0	84116.090	1.0
868.9298	38.01	.54	56057.900	0.0	67566.310	0.0
868.9690	28.01	-3.38	118809.340	1.5	130314.070	2.5
868.9715	26.00	-4.00	24574.655	4.0	36079.353	3.0
868.9728	10.01	-2.27	280947.100	1.5	292451.780	1.5
868.9879	28.01	-4.41	115827.120	3.5	127331.600	2.5
869.0061	14.00	-1.98	45276.188	1.0	56780.427	1.0
869.0075	18.00	-2.75	111667.870	0.0	123172.090	1.0
869.0129	23.00	-.64	26738.310	4.5	38242.460	3.5
869.0363	23.01	-4.75	44159.430	2.0	55663.270	1.0
869.0446	20.02	-3.47	371061.370	4.0	382565.100	5.0
869.0619	8.01	-.75	254481.500	3.5	265985.000	3.5
869.0917	17.00	-.82	85442.430	1.5	96945.536	2.5
869.0990	26.00	-4.03	47017.170	3.0	58520.180	4.0
869.1275	17.00	-1.59	85735.091	1.5	97237.723	2.5
869.1284	26.02	-2.69	189011.840	4.0	200514.460	4.0
869.1334	28.00	-1.91	43258.792	4.0	54761.346	4.0
869.1413	27.00	-3.76	42434.230	2.5	53936.680	2.5
869.1451	23.00	-2.78	26437.680	1.5	37940.080	.5
869.2048	21.00	-1.44	25014.150	2.5	36515.760	1.5
869.2093	23.00	-1.04	26604.770	3.5	38106.320	2.5
869.2289	25.01	-4.19	91178.800	4.0	102680.090	5.0
869.2327	22.00	-1.92	8436.618	0.0	19937.859	1.0
869.2794	22.00	-4.03	15156.787	4.0	26657.409	4.0
869.2984	8.01	-4.60	234402.480	1.5	245902.850	2.5
869.2992	26.00	-2.12	46313.610	2.0	57813.970	3.0
869.3075	18.01	-.90	183797.360	2.5	195297.610	1.5
869.3091	16.00	-1.41	63474.101	3.0	74974.330	2.0
869.3112	28.00	-4.08	47030.148	3.0	58530.350	3.0
869.3189	26.00	-3.73	36975.640	3.0	48475.740	3.0
869.3574	26.02	-2.51	189024.530	5.0	200524.120	5.0
869.3673	13.02	-.59	189876.100	2.5	201375.560	1.5
869.3869	13.01	-.26	138811.900	2.0	150311.100	3.0
869.3869	13.01	-1.16	138811.900	3.0	150311.100	3.0
869.3892	28.01	-3.73	104646.520	3.5	116145.690	3.5
869.3945	13.02	-1.73	189876.100	2.5	201375.200	2.5
869.3946	16.00	-.57	63474.101	3.0	74973.200	3.0
869.4081	23.00	-3.54	26004.220	2.5	37503.140	2.5
869.4187	13.02	-.43	189876.420	3.5	201375.200	2.5
869.4664	16.00	.02	63474.101	3.0	74972.250	4.0
869.4739	23.00	-1.66	26505.880	2.5	38003.930	1.5
869.4792	28.01	-4.89	118803.820	6.5	130301.800	6.5
869.4814	27.00	-4.56	43398.620	3.5	54896.570	3.5
869.4828	26.00	-4.93	40207.120	3.0	51705.052	2.0
869.4898	7.01	-.37	202714.120	1.0	214211.960	0.0
869.5208	25.01	.66	74559.970	3.0	86057.400	4.0
869.5631	25.00	-.95	44993.920	3.5	56490.790	2.5
869.6456	10.01	-3.33	294086.490	1.5	305582.270	.5
869.7000	25.00	-4.63	50931.420	2.5	62426.480	3.5
869.7379	10.01	-.64	280473.580	1.5	291968.140	.5
869.7550	41.00	-1.81	12905.203	0.0	24402.694	0.0
869.7840	7.01	.21	209737.970	3.0	221231.920	4.0
869.8446	26.02	-4.22	189011.840	4.0	200504.990	3.0
869.8612	23.00	-3.09	26122.040	3.5	37614.970	3.5
869.8716	26.00	-3.64	24118.815	4.0	35611.608	3.0
869.8817	23.00	-4.43	25930.510	1.5	37423.170	1.5
869.8991	7.01	-.04	202765.260	2.0	214257.690	1.0
869.9029	6.00	-4.00	72610.720	2.0	84103.100	2.0
869.9066	28.01	-2.89	118828.610	2.5	130320.940	3.5
869.9295	26.00	-3.59	34017.084	1.0	45509.112	1.0
869.9409	26.00	-.84	39969.830	3.0	51461.707	4.0
869.9907	20.02	-.82	348051.860	4.0	359543.080	4.0
870.0300	26.00	-4.18	39969.830	3.0	51460.530	3.0
870.0325	22.00	-3.79	33090.492	1.0	44581.160	2.0
870.0474	15.00	-1.55	66343.330	.5	77833.800	1.5
870.0491	28.00	-3.10	47139.392	2.0	58629.840	2.0
870.0711	28.00	-4.78	47139.392	2.0	58629.550	3.0
870.0884	26.02	-4.22	189024.530	5.0	200514.460	4.0
870.0906	16.01	-1.79	153282.800	2.5	164772.700	3.5
870.0951	18.00	-2.68	114805.180	2.0	126295.020	3.0
870.1042	18.00	-.96	114805.180	2.0	126294.900	3.0
870.1232	23.00	-7.86	14514.750	1.5	26004.220	2.5
870.1353	28.01	-4.93	120166.520	1.5	131655.830	.5
870.1626	27.00	-2.53	42988.120	3.5	54477.070	3.5
870.1830	7.01	-.34	209737.970	3.0	221226.650	3.0
870.1845	28.01	-4.83	122441.220	4.5	133929.880	3.5
870.2374	28.00	-4.40	47030.148	3.0	58518.110	4.0
870.2379	58.01	-2.54	3710.246	0.0	15201.357	0.0
870.2421	28.01	-3.64	118294.170	3.5	129782.070	3.5
870.2489	28.00	-4.27	22102.349	4.0	33590.159	4.0
870.2534	17.00	-2.09	85442.430	1.5	96930.181	.5
870.2891	26.02	-3.81	189679.070	3.0	201166.350	3.0
870.2952	7.01	-1.00	209823.910	4.0	221311.110	4.0
870.3247	7.00	-.27	83284.040	.5	94770.850	.5
870.3256	14.00	-2.00	45293.629	2.0	56780.427	1.0
870.3645	14.00	-2.92	48020.074	1.0	59506.359	2.0
870.3686	56.01	-.60	61636.000	0.0	73125.385	0.0
870.3815	27.00	-2.90	42796.670	1.5	54282.730	2.5
870.4005	28.01	-1.83	105588.890	4.5	117074.700	3.5
870.4073	26.02	-4.72	188109.580	3.0	199595.300	3.0
870.4110	10.01	-1.26	317663.130	1.5	329148.800	1.5
870.4209	10.01	.01	317663.130	1.5	329148.670	2.5
870.4270	28.01	-2.86	118828.610	2.5	130314.070	2.5
870.4337	28.00	-3.98	45281.152	3.0	56766.523	4.0
870.4354	14.00	-3.67	51612.012	0.0	63097.360	1.0
870.4512	26.02	-2.52	189679.070	3.0	201164.210	2.0
870.4543	22.00	-4.97	31373.801	3.0	42858.900	3.0
870.4573	10.01	-1.66	292033.150	2.5	303518.210	1.5
870.4680	22.00	-4.76	34204.971	4.0	45689.890	3.0
870.5414	17.00	-1.97	90749.360	2.5	102233.310	2.5
870.5458	20.00	-2.39	36547.688	0.0	48031.580	1.0
870.5558	10.01	.30	290371.950	2.5	301855.710	2.5
870.5791	28.00	-2.56	42767.900	3.0	54251.353	3.0
870.6320	62.01	-1.65	14034.408	0.0	25520.317	0.0
870.6567	23.01	-6.90	25191.080	2.0	36673.510	2.0
870.6953	28.01	-4.81	120268.810	3.5	131750.730	3.5
870.7120	29.01	-4.77	137077.600	3.0	148559.300	2.0
870.7128	28.01	-3.28	122441.220	4.5	133922.910	4.5
870.7135	12.00	-2.76	49346.729	1.0	60828.410	2.0
870.7788	28.01	-4.03	115739.150	4.5	127219.970	3.5
870.7947	22.00	-4.23	37359.130	2.0	48839.740	3.0
870.7962	24.00	-.59	35398.020	4.0	46878.610	3.0
870.8068	10.01	-2.69	294086.490	1.5	305566.940	1.5
870.8430	62.01	-1.44	11292.053	0.0	22775.179	0.0
870.8455	25.00	-4.32	41403.930	2.5	52883.870	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
870.8455	10.01	-.69	281171.380	2.5	292651.320	1.5
870.8789	8.01	-1.98	254481.500	3.5	265961.000	2.5
870.8956	27.00	-2.31	43425.710	2.5	54904.990	2.5
870.8956	18.00	-3.09	113643.260	1.0	125122.540	0.0
870.9153	25.01	-3.26	70657.180	5.0	82136.200	4.0
870.9153	12.01	-2.05	103419.700	2.5	114898.720	1.5
870.9221	10.01	-.89	279324.890	1.5	290803.820	.5
870.9240	90.00	-2.75	3629.588	0.0	15111.646	0.0
870.9381	12.01	-3.00	103420.000	1.5	114898.720	1.5
870.9562	20.00	-2.06	36554.749	1.0	48033.230	2.0
870.9775	28.01	-4.18	120272.530	4.5	131750.730	3.5
870.9783	24.00	-4.32	33113.270	4.0	44591.460	5.0
870.9904	10.01	-2.49	291801.880	1.5	303279.910	2.5
871.0175	12.00	-1.55	47841.119	0.0	59318.793	1.0
871.0261	25.00	-2.35	34463.370	1.5	45940.930	2.5
871.0342	26.00	-.64	39625.784	4.0	51103.237	5.0
871.0436	28.01	-4.44	119656.250	3.5	131133.580	2.5
871.0542	7.01	.78	209823.910	4.0	221301.100	5.0
871.0769	92.00	-1.30	5887.999	0.0	17368.042	0.0
871.0815	20.00	-2.52	36554.749	1.0	48031.580	1.0
871.0840	44.00	.33	30165.913	0.0	41645.862	0.0
871.0846	12.01	-2.30	103420.000	1.5	114896.790	.5
871.0876	56.01	.86	46154.890	0.0	57634.792	0.0
871.1203	10.01	-2.05	292451.780	1.5	303928.100	.5
871.1240	72.00	-1.33	15566.901	0.0	27046.323	0.0
871.1650	18.01	-1.28	194861.270	2.5	206337.000	3.5
871.1703	7.00	-.16	83317.800	1.5	94793.460	1.5
871.1748	18.01	-2.41	194861.270	2.5	206336.870	2.5
871.1794	24.00	-4.30	35572.940	2.0	47048.480	3.0
871.2007	28.01	-3.93	120211.300	5.5	131686.560	4.5
871.2561	24.00	-4.83	35572.940	2.0	47047.470	2.0
871.2667	28.01	-4.99	113177.610	3.5	124652.000	4.5
871.2676	12.00	-1.67	47844.414	1.0	59318.793	1.0
871.2689	12.00	-1.37	47844.414	1.0	59318.775	2.0
871.2895	10.01	-.26	290583.170	1.5	302057.260	.5
871.2903	25.00	-4.63	56490.790	2.5	67964.870	2.5
871.3017	28.01	-1.94	110573.360	2.5	122047.290	3.5
871.3032	20.02	-1.47	359800.570	3.0	371274.480	2.0
871.3161	26.00	-1.39	40231.312	2.0	51705.052	2.0
871.3169	27.00	-5.26	13795.520	2.5	25269.250	3.5
871.3176	24.00	-4.72	33060.740	3.0	44534.460	4.0
871.3197	26.00	-3.38	23783.617	5.0	35257.309	4.0
871.3207	15.00	-1.58	66360.120	1.5	77833.800	1.5
871.3358	23.00	-4.34	15264.830	5.5	26738.310	4.5
871.3495	25.01	.22	86936.800	2.0	98410.100	2.0
871.3677	23.00	-4.85	14548.830	2.5	26021.890	3.5
871.3700	18.00	-2.11	114821.990	3.0	126295.020	3.0
871.3708	17.00	-1.09	90749.360	2.5	102222.380	3.5
871.3791	18.00	-2.24	114821.990	3.0	126294.900	3.0
871.3791	18.00	-.80	114821.990	3.0	126294.900	4.0
871.3822	26.01	-4.24	54904.500	3.5	66377.370	3.5
871.4414	10.01	-.53	301948.000	1.5	313420.090	2.5
871.4566	28.01	-1.67	109846.000	3.5	121317.890	3.5
871.4620	9.02	-4.12	441276.720	2.5	452748.540	2.5
871.4794	10.01	-4.00	302247.780	3.5	313719.370	2.5
871.5211	10.01	-1.27	301948.000	1.5	313419.040	1.5
871.5648	10.00	-2.84	161524.174	1.0	172994.640	2.0
871.5728	28.01	-3.09	119100.060	1.5	130570.420	.5
871.5850	24.00	-3.99	46524.840	2.0	57995.040	1.0
871.5873	28.01	-4.86	97799.660	1.5	109269.830	1.5
871.5971	18.01	-.62	203197.440	3.5	214667.480	2.5
871.6086	24.00	-4.53	35618.510	1.0	47088.400	1.0
871.6291	28.01	-4.41	120281.110	4.5	131750.730	3.5
871.6451	22.00	-4.10	37555.021	3.0	49024.430	3.0
871.6519	17.00	-2.01	90749.360	2.5	102218.680	2.5
871.6583	28.00	-2.56	42767.900	3.0	54237.136	4.0
871.6660	58.01	-3.42	967.890	0.0	12440.174	0.0
871.6747	17.00	-3.00	90749.360	2.5	102218.380	1.5
871.6982	28.01	-3.65	119656.250	3.5	131124.960	3.5
871.7218	7.01	-1.52	209823.910	4.0	221292.310	3.0
871.7302	28.01	-3.28	119665.290	2.5	131133.580	2.5
871.7438	26.00	-4.25	43022.969	4.0	54491.080	3.0
871.7803	12.00	-2.85	47851.162	2.0	59318.793	1.0
871.7811	18.01	-4.92	200138.850	3.5	211606.470	3.5
871.7817	12.00	-1.85	47851.162	2.0	59318.775	2.0
871.7825	12.00	-.93	47851.162	2.0	59318.764	3.0
871.7889	62.01	-1.42	12663.231	0.0	24133.898	0.0
871.8092	28.01	-4.77	118314.820	2.5	129782.070	3.5
871.8123	20.02	-2.02	371120.690	4.0	382587.900	4.0
871.8298	15.00	-.96	67113.820	2.5	78580.800	1.5
871.8404	20.02	-3.76	371121.060	5.0	382587.900	4.0
871.8474	22.00	-3.08	33114.412	2.0	44581.160	2.0
871.8662	24.00	-4.61	31048.850	1.0	42515.350	2.0
871.8708	24.00	-.84	35501.260	3.0	46967.700	2.0
871.8830	28.01	-4.70	120189.550	.5	131655.830	.5
871.8837	7.00	-.23	83364.590	2.5	94830.860	2.5
871.8913	25.00	-4.17	41403.930	2.5	52870.100	3.5
871.9019	10.01	-1.96	291495.040	2.5	302961.070	1.5
871.9119	56.01	-1.58	61636.000	0.0	73105.049	0.0
871.9377	18.01	-.47	189414.960	3.5	200880.520	3.5
871.9612	22.00	-2.60	14028.470	2.0	25493.722	2.0
871.9818	27.00	-4.53	43847.980	3.5	55312.960	4.5
871.9826	38.01	-.41	56057.900	0.0	67526.019	0.0
871.9894	18.01	-1.42	194883.000	3.5	206347.880	4.5
872.0328	21.00	-2.12	24866.180	1.5	36330.490	2.5
872.0410	57.00	-1.34	9840.217	0.0	21307.568	0.0
872.0495	25.00	-4.41	51014.950	3.5	62479.040	4.5
872.1355	25.00	-4.95	56356.210	3.5	67819.170	4.5
872.1773	28.01	-4.80	118848.920	7.5	130311.330	7.5
872.1850	27.00	-3.69	43398.620	3.5	54860.930	4.5
872.1880	24.00	-4.67	36552.130	3.0	48014.400	4.0
872.1896	10.01	-.85	280989.530	1.5	292451.780	1.5
872.2025	27.00	-2.00	42796.670	1.5	54258.750	2.5
872.2329	15.00	-3.70	65450.020	1.5	76911.700	.5
872.2603	28.01	-2.47	115870.280	2.5	127331.600	2.5
872.2775	20.00	-1.82	36575.119	2.0	48036.212	3.0
872.2831	22.00	-4.02	35577.140	2.0	47038.160	3.0
872.3250	24.01	-3.99	53923.570	4.5	65384.040	4.5
872.3486	25.00	-4.65	51445.650	1.5	62905.810	2.5
872.3859	28.01	-4.17	119665.290	2.5	131124.960	3.5
872.4346	28.01	-2.50	119656.250	3.5	131115.280	4.5
872.4980	44.00	-1.02	20809.640	0.0	32270.984	0.0
872.5046	20.00	-2.53	36575.119	2.0	48033.230	2.0
872.5779	22.00	-3.13	13981.750	1.0	25438.898	2.0
872.6026	14.00	-4.11	49188.617	2.0	60645.441	2.0
872.6198	22.00	-3.00	29912.262	3.0	41368.860	4.0
872.6273	28.01	-4.01	103663.500	1.5	115120.000	2.5
872.6302	20.00	-3.68	36575.119	2.0	48031.580	1.0
872.6453	22.00	-3.42	15108.121	3.0	26564.385	3.0
872.6745	27.00	-4.31	42269.320	4.5	53725.200	4.5
872.6928	26.02	-2.41	186882.980	3.0	198338.620	4.0
872.7118	23.00	-5.51	14548.830	2.5	26004.220	2.5
872.7133	26.00	-4.05	33765.291	2.0	45220.662	3.0
872.7613	20.01	-3.12	78034.390	2.5	89489.130	2.5
872.7613	20.01	-1.82	78034.390	3.5	89489.130	2.5
872.7728	18.01	-3.80	200138.850	3.5	211593.440	4.5
872.7769	63.00	-.51	19357.805	0.0	30815.487	0.0
872.8010	14.00	-.61	49850.830	2.0	61305.050	3.0
872.8071	22.00	-2.10	29914.720	3.0	41368.860	4.0
872.8116	26.02	-3.16	186882.980	3.0	198337.060	3.0
872.8177	18.01	-2.44	194883.000	3.5	206337.000	3.5
872.8277	18.01	-3.77	194883.000	3.5	206336.870	2.5
872.8482	25.01	-4.66	43484.500	2.0	54938.100	1.0
872.8528	20.01	-1.98	78034.390	2.5	89487.930	1.5
872.8566	28.01	-3.39	104503.220	2.5	115956.710	2.5
872.8594	14.00	-1.72	49850.830	2.0	61304.283	2.0
872.8902	7.00	-.97	83317.800	1.5	94770.850	.5
872.9155	26.00	-3.03	27543.000	1.0	38995.717	1.0
872.9168	18.01	-1.38	183675.570	3.5	195128.270	4.5
872.9199	26.02	-4.38	188142.640	2.0	199595.300	3.0
872.9282	14.00	-2.30	49850.830	2.0	61303.381	3.0
872.9725	25.00	-.14	46169.930	.5	57621.900	1.5
872.9915	18.02	-1.79	213950.870	2.0	225402.590	3.0
872.9930	28.01	-3.09	100332.090	4.5	111783.790	3.5
873.0235	29.01	-1.13	139331.300	3.0	150782.600	2.0
873.0769	28.01	-4.86	118874.110	3.5	130324.710	4.5
873.0784	26.02	-4.31	186882.980	3.0	198333.560	2.0
873.1913	25.01	-.01	86961.000	1.0	98410.100	2.0
873.2134	24.00	-1.25	35572.940	2.0	47021.750	1.0
873.2160	28.00	-3.32	47139.392	2.0	58588.168	3.0
873.2180	24.00	-4.29	35398.020	4.0	46846.770	3.0
873.2218	8.01	-.60	254481.500	3.5	265930.200	4.5
873.2241	28.01	-1.34	109846.000	3.5	121294.670	4.5
873.2447	8.01	-3.61	234454.450	2.5	245902.850	2.5
873.2462	27.00	-4.66	40621.620	1.5	52070.000	2.5
873.2500	25.00	-3.96	38934.940	2.5	50383.270	1.5
873.2782	25.00	-4.82	51305.410	2.5	62753.370	2.5
873.2818	9.00	-1.92	117164.006	2.5	128611.920	1.5
873.3278	27.00	-.84	42811.440	3.5	54258.750	2.5
873.3568	28.01	-4.66	119656.250	3.5	131103.180	2.5
873.3645	28.01	-3.01	118874.110	3.5	130320.940	3.5
873.3857	26.00	-4.65	43108.899	4.0	54555.450	4.0
873.4215	12.00	-4.04	47957.028	2.0	59403.110	1.0
873.4270	26.02	-4.62	188131.700	1.0	199577.710	2.0
873.4707	22.00	-2.03	8492.421	1.0	19937.859	1.0
873.4860	40.00	-1.60	14921.641	0.0	26370.021	0.0
873.4953	28.00	-3.02	46522.965	2.0	57968.080	3.0
873.4987	12.01	-.63	97455.120	.5	108900.190	1.5
873.5354	28.01	-4.76	103663.500	1.5	115108.090	2.5
873.5491	20.02	-3.67	371120.690	4.0	382565.100	5.0
873.5774	20.02	-1.94	371121.060	5.0	382565.100	5.0
873.6007	12.00	-1.93	47957.028	2.0	59400.763	2.0
873.6007	12.00	-.86	47957.028	2.0	59400.763	3.0
873.6007	12.00	-3.21	47957.028	2.0	59400.763	3.0
873.6020	12.00	-3.30	47957.045	3.0	59400.763	2.0
873.6020	12.00	-1.97	47957.045	3.0	59400.763	3.0
873.6020	12.00	-2.17	47957.045	3.0	59400.763	3.0
873.6020	12.00	-.69	47957.045	3.0	59400.763	4.0
873.6028	12.00	-1.02	47957.056	1.0	59400.763	2.0
873.6184	18.00	-2.93	111818.090	1.0	123261.593	2.0
873.6484	25.00	-4.17	51638.170	2.5	63081.280	2.5
873.6560	23.00	-4.36	26171.960	4.5	37614.970	3.5
873.6782	18.00	-1.87	113426.050	2.0	124868.770	3.0
873.6911	23.00	-5.91	14910.040	3.5	26352.590	2.5
873.7267	9.00	-.56	117164.006	2.5	128606.090	2.5
873.7393	22.00	-.78	30039.211	5.0	41481.130	5.0
873.7759	28.01	-3.98	122086.580	3.5	133528.020	3.5
873.7763	56.01	.81	45949.496	0.0	57394.073	0.0
873.8049	28.00	-2.68	43258.792	4.0	54699.852	3.0
873.8156	28.01	-2.69	104298.230	4.5	115739.150	4.5
873.8889	28.01	-3.53	118874.110	3.5	130314.070	2.5
873.9088	29.01	-2.01	135135.600	1.0	146575.300	2.0
873.9516	18.00	-2.54	113426.050	2.0	124865.190	2.0
873.9631	18.00	-1.14	113426.050	2.0	124865.040	3.0
874.0387	29.01	-2.89	137077.600	3.0	148515.600	4.0
874.0471	28.01	-2.78	119665.290	2.5	131103.180	2.5
874.0910	22.00	-3.94	24694.895	4.0	36132.210	4.0
874.0960	41.00	-1.92	12017.970	0.0	23458.361	0.0
874.1082	22.00	-3.39	29818.310	3.0	41255.400	4.0
874.1137	22.00	-2.46	15220.390	5.0	26657.409	4.0
874.1166	28.01	-3.59	118877.090	1.5	130314.070	2.5
874.1227	18.00	-3.87	111818.090	1.0	123254.990	1.0
874.1365	27.00	-2.41	40827.770	1.5	52264.490	1.5
874.1609	15.00	-.83	64239.500	.5	75675.900	1.5
874.1658	26.00	-1.90	48928.423	2.0	60364.760	3.0
874.1823	17.00	-1.62	85917.937	.5	97354.057	1.5
874.1892	10.01	-2.84	291801.880	1.5	303237.910	1.5
874.1984	10.01	-1.16	316882.210	2.5	328318.120	3.5
874.2114	10.01	.16	316882.210	2.5	328317.950	2.5
874.2446	14.00	-.63	47351.554	2.0	58786.860	3.0
874.2649	27.00	-4.19	43847.980	3.5	55283.020	2.5
874.2710	26.00	-4.22	40534.180	3.0	51969.140	3.0
874.2756	23.00	-9.35	14910.040	3.5	26344.940	4.5
874.3085	18.01	-1.32	200151.640	1.5	211586.110	2.5
874.3139	27.00	-4.86	43555.220	3.5	54989.620	3.5
874.3200	18.01	-4.75	200234.860	2.5	211669.180	2.5
874.3451	26.00	-3.03	42532.729	3.0	53966.720	2.0
874.3552	24.00	-2.72	27163.200	0.0	38597.060	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
874.4355	27.00	-3.61	42269.320	4.5	53702.130	3.5
874.5188	28.01	-4.39	118892.990	5.5	130324.710	4.5
874.5249	18.00	-3.45	113643.260	1.0	125074.900	2.0
874.5456	18.00	-2.65	113426.050	2.0	124857.420	2.0
874.5532	12.01	-1.33	97468.920	1.5	108900.190	1.5
874.5571	18.00	-3.04	113426.050	2.0	124857.270	1.0
874.5579	27.00	-2.39	33674.380	2.5	45105.590	3.5
874.5655	12.01	-.38	97468.920	1.5	108900.030	2.5
874.5816	28.01	-4.97	120189.550	.5	131620.450	1.5
874.5869	29.01	-2.37	138819.170	3.0	150250.000	2.0
874.5915	28.01	-4.98	88128.560	2.5	99559.330	2.5
874.6305	24.00	-3.21	37205.880	3.0	48636.140	3.0
874.6581	29.01	-1.99	137212.700	1.0	148642.600	2.0
874.6642	24.00	-4.98	31009.000	3.0	42438.820	2.0
874.6706	28.00	-4.29	45281.152	3.0	56710.889	2.0
874.6787	26.01	-3.79	50157.610	4.5	61587.240	5.5
874.7010	18.00	-2.70	113643.260	1.0	125072.600	1.0
874.7163	10.01	.62	290371.950	2.5	301801.090	3.5
874.7300	24.00	-4.61	35618.510	1.0	47047.470	2.0
874.7323	28.01	-.39	108368.050	2.5	119796.980	2.5
874.7369	7.00	-1.19	83364.590	2.5	94793.460	1.5
874.7438	26.00	-3.39	24338.766	3.0	35767.546	4.0
874.7492	7.01	-2.34	209925.760	2.0	221354.470	2.0
874.7546	18.01	-3.93	200234.860	2.5	211663.500	3.5
874.7652	28.01	-4.14	118893.240	6.5	130321.740	5.5
874.8030	90.00	-1.65	7420.492	0.0	18851.637	0.0
874.8348	10.01	-.35	292546.700	.5	303974.290	1.5
874.8373	22.00	-4.13	31184.021	1.0	42611.580	1.0
874.8379	57.00	-1.99	2581.041	0.0	14011.730	0.0
874.8428	26.00	-4.41	47092.693	3.0	58520.180	4.0
874.8594	15.00	-1.65	66343.330	.5	77770.600	.5
874.9115	24.00	-3.78	46637.210	3.0	58063.800	2.0
874.9480	40.00	-2.79	4839.451	0.0	16268.702	0.0
874.9666	7.01	-2.20	209925.760	2.0	221351.630	1.0
874.9689	10.01	-.49	281025.940	2.5	292451.780	1.5
874.9746	22.00	-3.30	29768.655	2.0	41194.420	3.0
875.0141	27.00	-.40	42269.320	4.5	53694.570	3.5
875.0233	28.01	-4.86	117872.780	2.5	129297.910	3.5
875.1177	14.00	-1.95	47351.554	2.0	58775.451	2.0
875.1864	28.01	-2.87	118897.940	2.5	130320.940	3.5
875.2006	14.00	-.52	47351.554	2.0	58774.368	3.0
875.2010	28.01	-2.80	101754.800	2.5	113177.610	3.5
875.2117	22.01	-4.72	53554.900	2.5	64977.570	3.5
875.2645	18.01	-2.07	192712.000	1.5	204133.980	2.5
875.2769	64.00	-1.39	11211.395	0.0	22636.351	0.0
875.2928	28.00	-3.65	47208.228	1.0	58629.840	2.0
875.3029	25.00	-2.77	51718.220	1.5	63139.700	2.5
875.3067	6.00	-2.02	72610.720	2.0	84032.150	1.0
875.3251	24.00	-2.96	33113.270	4.0	44534.460	4.0
875.3436	22.00	-4.40	31190.631	2.0	42611.580	1.0
875.3466	10.01	.29	316897.210	3.5	328318.120	3.5
875.3519	24.00	-2.30	27176.220	1.0	38597.060	1.0
875.3549	22.00	-3.50	30060.328	4.0	41481.130	5.0
875.3573	27.00	-4.66	43847.980	3.5	55268.750	3.5
875.3596	10.01	-1.11	316897.210	3.5	328317.950	2.5
875.3680	18.01	-1.85	200151.640	1.5	211572.270	1.5
875.3690	92.00	-.78	10243.505	0.0	21667.259	0.0
875.3765	28.01	-3.77	118892.990	5.5	130313.510	5.5
875.3995	18.01	-4.97	179592.130	2.5	191012.350	1.5
875.4386	10.01	-.81	306243.420	2.5	317663.130	1.5
875.4531	27.00	-4.79	40621.620	1.5	52041.140	.5
875.4968	23.00	-4.54	26004.220	2.5	37423.170	1.5
875.5045	23.00	-4.72	26021.890	3.5	37440.740	4.5
875.5243	22.00	-4.41	37617.868	4.0	49036.460	4.0
875.5628	28.01	-2.21	118893.240	6.5	130311.330	7.5
875.5714	26.00	-2.44	43137.472	3.0	54555.450	4.0
875.6816	18.00	-2.46	113643.260	1.0	125059.800	2.0
875.7131	28.01	-3.12	118897.940	2.5	130314.070	2.5
875.7139	28.01	-4.56	120270.440	5.5	131686.560	4.5
875.7192	26.00	-2.16	22946.810	1.0	34362.860	1.0
875.7415	23.00	-5.14	14514.750	1.5	25930.510	1.5
875.7415	28.01	-4.22	110021.920	4.5	121437.680	5.5
875.7699	26.00	-3.96	40421.890	4.0	51837.279	3.0
875.8213	7.00	-2.47	93581.520	.5	104996.240	1.5
875.8240	90.00	-1.57	8711.012	0.0	20128.831	0.0
875.8280	62.01	-1.48	12179.286	0.0	23597.053	0.0
875.8289	22.00	-4.13	27887.740	3.0	39302.360	4.0
875.8587	17.00	-2.63	85735.091	1.5	97149.323	.5
875.8742	28.01	-4.82	120272.530	4.5	131686.560	4.5
875.8852	22.00	-4.20	37622.573	3.0	49036.460	4.0
875.8911	8.01	-3.54	234402.480	1.5	245816.290	1.5
875.9026	23.00	-4.86	17181.980	4.5	28595.640	3.5
875.9894	9.00	-4.47	104731.050	1.5	116143.579	.5
876.0103	17.00	-3.20	84485.309	1.5	95897.565	1.5
876.0300	21.02	-1.16	136871.000	2.5	148283.000	2.5
876.0300	21.02	.14	136871.000	3.5	148283.000	2.5
876.0438	25.00	-.43	45156.110	2.5	56567.930	1.5
876.0538	56.01	-.67	48483.290	0.0	59898.114	0.0
876.0592	10.01	-2.42	302307.750	2.5	313719.370	2.5
876.0607	29.01	-.81	139331.300	3.0	150742.900	3.0
876.0661	25.00	-3.33	51014.950	3.5	62426.480	3.5
876.0884	10.01	-2.05	302307.750	2.5	313718.990	3.5
876.1350	46.00	.50	37183.117	0.0	48596.883	0.0
876.1360	55.00	-.34	11178.270	0.0	22592.023	0.0
876.1390	21.00	-1.08	24866.180	1.5	36276.760	1.5
876.1459	28.01	-3.82	119665.290	2.5	131075.780	1.5
876.1467	15.00	-2.75	66360.120	1.5	77770.600	.5
876.1507	22.00	-2.55	14028.470	2.0	25438.898	2.0
876.1552	25.00	-4.28	34343.900	4.5	45754.270	3.5
876.1681	18.00	-3.01	107496.463	1.0	118906.665	2.0
876.1820	26.00	-3.94	36940.600	2.0	48350.620	1.0
876.2499	28.00	-3.02	43258.792	4.0	54667.928	4.0
876.2550	22.00	-4.27	27740.190	2.0	39149.260	2.0
876.2604	25.00	-4.19	52015.000	3.5	63424.000	3.5
876.2750	28.01	-2.28	118892.990	5.5	130301.800	6.5
876.2942	28.01	-4.11	118893.240	6.5	130301.800	6.5
876.3141	8.01	-1.93	254590.700	4.5	265999.000	3.5
876.3141	8.01	-.68	254590.700	4.5	265999.000	4.5
876.3349	24.00	-4.03	36577.730	4.0	47985.760	5.0
876.3364	7.01	-.20	209823.910	4.0	221231.920	4.0
876.3681	22.00	-2.16	15156.787	4.0	26564.385	3.0
876.3833	28.01	-2.97	118914.340	4.5	130321.740	5.5
876.3926	26.00	-.31	37521.144	2.0	48928.423	2.0
876.3955	19.00	-2.57	21534.700	2.5	32941.940	1.5
876.4477	22.00	-2.81	37617.868	4.0	49024.430	3.0
876.4877	14.00	-2.22	50189.389	2.0	61595.430	1.0
876.4916	25.01	-4.21	70745.080	3.0	82151.070	2.0
876.4970	28.01	-2.89	105668.780	2.5	117074.700	3.5
876.5031	10.01	-2.95	282680.650	.5	294086.490	1.5
876.5723	19.00	-3.53	21537.000	1.5	32941.940	1.5
876.6138	29.01	-4.18	137077.600	3.0	148482.000	3.0
876.6220	10.00	-4.14	161590.346	4.0	172994.640	4.0
876.6418	14.00	-1.69	48102.323	2.0	59506.359	2.0
876.6584	27.00	-1.74	39649.160	3.5	51052.980	3.5
876.6622	24.00	-3.98	35501.260	3.0	46905.030	4.0
876.6644	9.00	-1.42	117308.558	1.5	128712.300	1.5
876.6682	22.00	-2.04	8602.340	2.0	20006.032	2.0
876.7030	24.00	-1.19	35618.510	1.0	47021.750	1.0
876.7053	19.00	-2.83	21537.000	1.5	32940.210	.5
876.7061	28.01	-1.13	108763.320	.5	120166.520	1.5
876.7352	7.00	-1.95	93581.520	.5	104984.340	.5
876.7414	7.01	-1.77	209823.910	4.0	221226.650	3.0
876.7491	18.00	-3.74	111818.090	1.0	123220.730	2.0
876.7583	10.00	-3.26	161592.120	3.0	172994.640	2.0
876.7583	10.00	-4.26	161592.120	3.0	172994.640	3.0
876.7614	15.00	-3.13	66544.120	2.5	77946.600	2.5
876.7922	25.00	.03	46083.890	1.5	57485.970	2.5
876.7970	41.00	-2.34	8630.355	0.0	20035.504	0.0
876.7976	29.01	-2.16	135484.300	0.0	146886.310	1.0
876.8093	22.00	-2.51	37622.573	3.0	49024.430	3.0
876.8206	18.01	-.86	192712.000	1.5	204113.710	1.5
876.8360	28.01	-4.54	118923.200	3.5	130324.710	4.5
876.8778	28.00	-1.37	43258.792	4.0	54659.759	5.0
876.9183	25.01	.54	74559.970	3.0	85960.410	3.0
876.9245	10.01	-.63	306262.770	1.5	317663.130	1.5
876.9729	24.00	-4.91	51246.870	1.0	62646.600	2.0
876.9891	28.01	-4.55	118442.810	1.5	129842.330	2.5
877.0053	17.00	-3.18	91127.030	2.5	102526.340	2.5
877.0091	25.01	-4.58	70745.080	3.0	82144.340	3.0
877.0114	17.00	-1.88	91127.030	2.5	102526.260	3.5
877.0160	28.01	-4.58	118914.340	4.5	130313.510	5.5
877.0342	22.00	-3.19	37325.407	2.0	48724.340	2.0
877.0360	64.00	-1.08	11775.998	0.0	23178.039	0.0
877.0368	28.01	-4.81	120271.970	2.5	131670.870	2.5
877.0391	16.01	-1.76	119242.130	1.5	130641.000	1.5
877.0582	28.00	-2.88	44475.158	2.0	55873.780	2.0
877.0591	20.02	-1.20	347758.220	2.0	359156.830	1.0
877.0672	28.00	-3.19	22102.349	4.0	33500.854	3.0
877.0691	28.01	-4.98	105439.850	1.5	116838.330	1.5
877.0845	15.00	-1.43	66544.120	2.5	77942.400	1.5
877.1228	22.00	-.91	29971.078	4.0	41368.860	4.0
877.1242	26.00	-3.38	42859.756	2.0	54257.520	2.0
877.1260	28.01	-3.45	118923.200	3.5	130320.940	3.5
877.1299	28.01	-3.72	118927.020	4.5	130324.710	4.5
877.1399	28.01	-4.48	120222.890	1.5	131620.450	1.5
877.1591	22.00	-2.98	36065.750	3.0	47463.060	4.0
877.1810	26.00	-3.97	40207.120	3.0	51604.146	3.0
877.1845	18.01	-1.19	148842.370	2.5	160239.350	1.5
877.1876	25.00	-4.96	56567.930	1.5	67964.870	2.5
877.1984	24.00	-2.98	36577.730	4.0	47974.530	3.0
877.2139	58.01	-2.40	2823.013	0.0	14222.741	0.0
877.2338	18.00	-3.67	113643.260	1.0	125039.600	1.0
877.2684	25.00	-2.71	51718.220	1.5	63114.110	1.5
877.2865	13.00	-.33	32435.435	1.5	43831.090	2.5
877.2877	23.00	-7.77	14949.300	4.5	26344.940	4.5
877.2931	7.01	.04	209673.650	2.0	221069.220	3.0
877.2962	10.01	-.70	291495.040	2.5	302890.570	2.5
877.3447	28.01	-1.75	109846.000	3.5	121240.900	3.5
877.3531	24.00	-1.98	45966.450	2.0	57361.240	3.0
877.3554	24.00	-1.11	35572.940	2.0	46967.700	2.0
877.3897	13.00	-.17	32436.778	2.5	43831.094	3.5
877.3900	13.00	-1.47	32436.778	2.5	43831.090	2.5
877.3909	8.01	-1.49	254590.700	4.5	265985.000	3.5
877.3932	28.01	-4.88	100389.520	2.5	111783.790	3.5
877.4532	26.02	-2.77	189784.520	2.0	201178.010	1.0
877.4833	27.00	-1.84	39649.160	3.5	51042.260	2.5
877.4994	26.01	-9.53	27620.390	2.5	39013.280	1.5
877.5025	28.01	-3.55	115827.120	3.5	127219.970	3.5
877.5580	90.00	-1.90	8065.752	0.0	19461.010	0.0
877.5680	21.02	-.02	136871.000	2.5	148263.000	1.5
877.5703	24.00	-2.05	37244.170	4.0	48636.140	3.0
877.5926	27.00	-4.32	43555.220	3.5	54946.900	2.5
877.6412	27.00	-4.37	42269.320	4.5	53660.370	5.5
877.6483	28.00	-3.95	47139.392	2.0	58530.350	3.0
877.6551	28.01	-4.13	118923.200	3.5	130314.070	2.5
877.7360	44.00	.32	33392.213	0.0	44785.160	0.0
877.7736	9.00	-.27	117308.558	1.5	128697.890	2.5
877.8260	12.00	-2.96	49346.729	1.0	60735.380	2.0
877.8730	22.00	-2.59	14105.680	3.0	25493.722	2.0
877.8893	26.02	-4.09	218860.430	2.0	230248.260	1.0
877.9078	27.00	-4.29	43295.320	4.5	54682.910	4.5
877.9156	26.00	-2.92	34121.623	0.0	45509.112	1.0
877.9241	10.00	-2.36	161607.261	2.0	172994.640	2.0
877.9241	10.00	-3.72	161607.261	2.0	172994.640	3.0
877.9294	28.01	-4.76	122140.710	4.5	133528.020	3.5
878.0089	26.00	-4.17	36975.640	3.0	48361.920	4.0
878.0149	22.00	-2.14	15108.121	3.0	26494.322	2.0
878.0216	28.00	-4.41	47139.392	2.0	58525.507	1.0
878.0436	16.01	-4.45	140708.510	2.5	152094.340	2.5
878.0698	18.01	-.53	188766.150	2.5	200151.640	1.5
878.0704	12.00	-3.36	47957.028	2.0	59342.510	1.0
878.0704	12.00	-3.84	47957.028	2.0	59342.510	2.0
878.0717	12.00	-2.92	47957.045	3.0	59342.510	2.0
878.0726	12.00	-3.67	47957.056	1.0	59342.510	1.0
878.0726	12.00	-4.84	47957.056	1.0	59342.510	2.0
878.0726	12.00	-3.54	47957.056	1.0	59342.510	0.0
878.0748	14.00	-1.97	50189.389	2.0	61574.814	3.0
878.0829	24.01	-4.57	52321.300	4.5	63706.620	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
878.0914	22.00	-4.65	35652.950	3.0	47038.160	3.0
878.2340	7.01	-1.28	209673.650	2.0	221057.010	2.0
878.2460	63.00	-.57	19519.120	0.0	30905.451	0.0
878.2869	22.00	-3.28	29986.185	3.0	41368.860	4.0
878.3102	26.00	-4.05	46889.126	4.0	58271.500	5.0
878.3228	28.01	-3.41	118939.530	5.5	130321.740	5.5
878.3406	26.02	-3.15	189796.030	1.0	201178.010	1.0
878.3521	26.02	-5.00	189784.520	2.0	201166.350	3.0
878.3544	28.01	-2.26	109846.000	3.5	121227.800	2.5
878.3637	23.00	-6.45	14548.830	2.5	25930.510	1.5
878.3853	10.01	-3.59	292546.700	.5	303928.100	.5
878.4021	5.00	-3.18	48611.817	.5	59993.000	1.5
878.4085	23.00	-4.16	26122.040	3.5	37503.140	2.5
878.4108	25.01	-4.18	43557.030	1.0	54938.100	1.0
878.4116	24.00	-1.55	35640.690	0.0	47021.750	1.0
878.4216	10.01	-.69	279422.890	.5	290803.820	.5
878.4278	7.01	.17	209673.650	2.0	221054.500	3.0
878.4413	26.00	-1.71	39969.830	3.0	51350.505	4.0
878.4570	90.01	-3.97	1451.835	0.0	12835.431	0.0
878.4614	18.00	-3.52	107131.755	1.0	118512.170	0.0
878.4617	26.01	-3.98	92602.940	3.5	103983.350	3.5
878.4789	26.00	-4.29	21715.735	5.0	33095.922	4.0
878.4850	64.00	-1.67	6452.602	0.0	17835.836	0.0
878.5173	26.02	-3.19	189784.520	2.0	201164.210	2.0
878.5397	5.00	-2.92	48613.600	1.5	59993.000	2.5
878.5397	5.00	-3.88	48613.600	1.5	59993.000	1.5
878.5628	9.00	.61	137590.090	2.5	148969.190	3.5.
878.5899	28.01	-3.90	98467.250	3.5	109846.000	3.5
878.6230	40.00	-2.01	11534.025	0.0	22915.471	0.0
878.6254	24.00	-3.82	24833.860	3.0	36212.150	4.0
878.6254	25.01	-3.60	91301.800	5.0	102680.090	5.0
878.6980	24.00	-1.26	35501.260	3.0	46878.610	3.0
878.7482	15.00	-1.38	66834.500	1.5	78211.200	2.5
878.7629	23.00	-4.54	15103.770	4.5	26480.280	3.5
878.7722	9.02	-1.62	380250.520	2.5	391626.910	3.5
878.7915	24.00	-3.64	35813.730	3.0	47189.870	4.0
878.8517	27.00	-4.56	44201.920	2.5	55577.280	1.5
878.8830	62.01	-1.81	10808.108	0.0	22186.187	0.0
878.8880	28.01	-2.33	115956.710	2.5	127331.600	2.5
878.9274	15.00	-.71	66360.120	1.5	77734.500	2.5
878.9298	26.00	-3.35	37157.546	2.0	48531.896	3.0
878.9514	26.02	-3.21	189796.030	1.0	201170.100	0.0
878.9560	24.00	-2.88	27223.050	2.0	38597.060	1.0
878.9599	23.00	-4.33	32692.090	3.5	44066.050	3.5
878.9870	32.00	-.13	37505.747	0.0	48882.480	0.0
879.0032	9.02	-2.74	430012.480	1.5	441385.880	1.5
879.0063	26.00	-4.41	46600.800	1.0	57974.160	2.0
879.0389	14.00	-.68	49933.775	3.0	61306.713	4.0
879.0469	26.00	-1.04	40231.312	2.0	51604.146	3.0
879.0565	28.01	-1.44	94067.140	1.5	105439.850	1.5
879.0573	18.01	-4.89	188766.150	2.5	200138.850	3.5
879.0789	24.00	-2.29	46000.360	3.0	57372.780	4.0
879.0866	25.00	-3.73	50341.300	4.5	61713.620	5.5
879.0879	63.00	-.29	19357.805	0.0	30733.232	0.0
879.1416	18.01	-3.68	200234.860	2.5	211606.470	3.5
879.1675	14.00	-2.85	49933.775	3.0	61305.050	3.0
879.2103	28.00	-3.56	44206.185	3.0	55576.905	3.0
879.2268	14.00	-2.87	49933.775	3.0	61304.283	2.0
879.2289	7.01	-1.43	209925.760	2.0	221296.240	2.0
879.2415	26.00	-3.65	43079.013	1.0	54449.330	1.0
879.2429	13.01	-3.98	95547.900	2.0	106918.200	1.0
879.2498	9.00	.73	137598.990	3.5	148969.200	4.5
879.2506	9.00	-.82	137598.990	3.5	148969.190	3.5
879.2625	26.00	-4.66	32873.623	4.0	44243.668	5.0
879.2965	14.00	-1.72	49933.775	3.0	61303.381	3.0
879.3086	22.00	-4.27	31489.451	4.0	42858.900	3.0
879.3124	13.01	-4.45	95548.800	1.0	106918.200	1.0
879.3178	56.01	-1.48	61336.000	0.0	72708.453	0.0
879.3304	26.00	-.29	37162.729	3.0	48531.896	3.0
879.3789	28.01	-1.14	122441.220	4.5	133809.760	3.5
879.4006	15.00	-3.89	67971.140	.5	79339.400	1.5
879.4068	26.02	-4.18	189796.030	1.0	201164.210	2.0
879.4340	22.00	-4.00	34700.212	5.0	46068.040	4.0
879.4687	10.01	-.95	317781.420	2.5	329148.800	1.5
879.4764	27.00	-4.70	43537.710	1.5	54904.990	2.5
879.4787	10.01	.18	317781.420	2.5	329148.670	2.5
879.4934	22.00	-4.90	27740.190	2.0	39107.250	1.0
879.4973	10.01	.01	317781.790	1.5	329148.800	1.5
879.5074	10.01	-1.32	317781.790	1.5	329148.670	2.5
879.5097	28.01	-2.84	109675.720	.5	121042.570	1.5
879.5329	7.01	-2.26	209925.760	2.0	221292.310	3.0
879.5616	18.01	-.32	195031.120	2.5	206397.300	3.5
879.5759	64.00	-1.13	11775.998	0.0	23145.114	0.0
879.5770	24.00	-4.47	35862.820	4.0	47228.800	5.0
879.5909	24.00	-3.25	36552.130	3.0	47917.930	2.0
879.6150	18.01	-.48	189040.870	1.5	200406.360	.5
879.6280	8.01	-3.79	234402.480	1.5	245767.800	.5
879.6366	22.00	-4.88	37359.130	2.0	48724.340	2.0
879.6443	26.00	-3.86	39969.830	3.0	51334.940	4.0
879.6660	10.01	.23	290583.170	1.5	301948.000	1.5
879.6761	24.00	-3.98	46783.060	4.0	58147.760	3.0
879.6769	25.00	-.07	45940.930	2.5	57305.620	3.5
879.6908	10.01	-.41	279218.660	2.5	290583.170	1.5
879.7000	9.02	-3.24	441406.460	3.5	452770.850	3.5
879.8030	25.00	-2.10	51718.220	1.5	63081.280	2.5
879.8046	26.00	-2.51	40207.120	3.0	51570.160	3.0
879.8627	25.00	-.13	44993.920	3.5	56356.210	3.5
879.8642	28.01	-4.81	118939.530	5.5	130301.800	6.5
879.8975	8.01	-3.89	234454.450	2.5	245816.290	1.5
879.9022	10.01	-.26	302057.260	.5	313419.040	1.5
879.9084	18.00	-3.35	107289.747	2.0	118651.447	1.0
879.9360	9.00	-.66	117164.006	2.5	128525.350	2.5
879.9386	18.01	-2.92	192556.840	2.5	203918.150	1.5
879.9719	24.00	-3.08	46000.360	3.0	57361.240	3.0
879.9858	28.01	-2.60	122847.600	3.5	134208.300	2.5
879.9928	27.00	-3.05	41982.660	1.5	53343.270	1.5
880.0338	24.00	-4.90	51286.520	2.0	62646.600	2.0
880.0362	22.00	-2.91	37555.021	3.0	48915.070	2.0
880.0620	39.00	-3.24	0.000	0.0	11362.836	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
880.0842	23.00	-4.60	15078.250	.5	26437.680	1.5
880.0963	9.00	-2.52	117164.006	2.5	128523.280	1.5
880.1035	16.01	-.69	153413.520	3.5	164772.700	3.5
880.1043	28.01	-2.12	122086.580	3.5	133445.750	4.5
880.1725	18.00	-2.97	113716.610	3.0	125074.900	2.0
880.1888	24.01	-4.48	53566.220	3.5	64924.300	3.5
880.1932	10.00	-1.43	161636.617	1.0	172994.640	2.0
880.2381	26.00	-4.10	43325.946	3.0	54683.390	4.0
880.2648	13.01	-1.51	134917.300	1.0	146274.400	2.0
880.3135	26.00	-4.22	43022.969	4.0	54379.440	3.0
880.3849	18.01	-.85	183675.570	3.5	195031.120	2.5
880.3888	28.02	-3.89	121802.800	3.0	133158.300	3.0
880.4167	27.00	-4.87	41104.960	2.5	52460.100	2.5
880.4221	28.01	-4.19	116512.060	3.5	127867.130	4.5
880.4229	26.01	-4.06	50157.610	4.5	61512.670	4.5
880.4382	26.00	-4.09	42911.897	5.0	54266.760	5.0
880.4637	26.00	-3.30	18378.187	2.0	29732.721	1.0
880.4980	40.00	-1.39	14921.641	0.0	26278.850	0.0
880.5051	18.00	-2.38	111818.090	1.0	123172.090	1.0
880.5173	26.00	-4.46	39625.784	4.0	50979.627	4.0
880.5355	26.00	-2.95	43137.472	3.0	54491.080	3.0
880.5958	17.00	-1.37	91173.510	1.5	102526.340	2.5
880.6757	12.00	.12	35051.264	1.0	46403.065	2.0
880.6840	22.00	-4.24	29818.310	3.0	41170.003	3.0
880.6936	29.01	-3.44	138898.430	1.0	150250.000	2.0
880.7223	24.00	-4.15	33934.880	3.0	45286.080	4.0
880.7576	9.00	.32	117164.006	2.5	128514.750	3.5
880.8121	26.00	-1.56	40404.492	1.0	51754.534	1.0
880.8332	27.00	-2.89	43555.220	3.5	54904.990	2.5
880.8395	28.01	-1.70	115870.280	2.5	127219.970	3.5
880.8734	26.00	-4.66	36940.600	2.0	48289.852	1.0
880.8783	24.00	-1.73	35618.510	1.0	46967.700	2.0
880.8860	29.01	-2.85	136754.110	2.0	148103.200	3.0
880.9054	21.00	-3.81	30573.100	.5	41921.940	1.5
880.9173	26.00	-4.75	40421.890	4.0	51770.577	3.0
880.9334	28.01	-4.68	120271.970	2.5	131620.450	1.5
880.9425	28.00	-1.19	31441.665	2.0	42790.027	2.0
881.0405	29.01	-.73	139395.800	4.0	150742.900	3.0
881.0591	27.00	-3.92	43921.890	2.5	55268.750	3.5
881.0692	27.00	-1.94	42811.440	3.5	54158.170	4.5
881.0786	25.01	-4.69	62564.700	1.0	73911.310	1.0
881.0793	29.01	-1.90	137212.700	1.0	148559.300	2.0
881.0817	28.01	-4.54	105439.850	1.5	116786.420	.5
881.1027	16.01	-1.60	119294.700	2.5	130641.000	1.5
881.1065	26.01	-3.46	54902.420	1.5	66248.670	.5
881.1151	22.00	-3.56	37690.320	5.0	49036.460	4.0
881.1236	10.01	-2.65	312811.650	3.5	324157.680	2.5
881.1640	24.00	-4.67	35501.260	3.0	46846.770	3.0
881.1951	26.01	-8.58	27314.930	3.5	38660.040	3.5
881.2362	15.00	-3.65	66544.120	2.5	77888.700	1.5
881.2502	24.00	-4.17	35884.400	5.0	47228.800	5.0
881.2549	28.01	-2.27	109846.000	3.5	121190.340	4.5
881.2626	10.01	-.63	291495.040	2.5	302839.280	2.5
881.2673	9.02	-3.90	406904.380	.5	418248.560	1.5
881.3442	18.00	-3.64	113716.610	3.0	125059.800	2.0
881.4048	27.00	-3.26	33439.720	4.5	44782.130	4.5
881.4219	9.01	-.61	278368.010	2.0	289710.200	2.0
881.4305	9.02	-5.00	441406.460	3.5	452748.540	2.5
881.4465	17.00	-4.86	85917.937	.5	97259.811	1.5
881.4872	27.00	-4.40	43555.220	3.5	54896.570	3.5
881.5299	8.02	-.83	367952.200	1.0	379293.000	2.0
881.5307	17.00	-2.15	90193.640	4.5	101534.430	4.5
881.5307	17.00	-.42	90193.640	4.5	101534.430	5.5
881.5560	41.00	-2.10	9436.930	0.0	20780.509	0.0
881.5626	18.01	-.43	194996.490	1.5	206336.870	2.5
881.5750	29.01	-2.70	136765.380	4.0	148105.600	4.0
881.5906	26.02	-3.61	186998.600	4.0	198338.620	4.0
881.6077	13.01	-5.00	133440.400	3.0	144780.200	2.0
881.6160	90.01	-3.35	4032.876	0.0	15375.683	0.0
881.6224	9.02	-3.18	406908.950	1.5	418248.560	1.5
881.6310	8.01	-1.30	254590.700	4.5	265930.200	4.5
881.6450	24.00	-4.35	31048.000	7.0	42387.320	7.0
881.6613	25.01	-4.24	62572.200	2.0	73911.310	1.0
881.6994	22.00	-5.10	7255.369	2.0	18593.990	3.0
881.7119	26.02	-4.17	186998.600	4.0	198337.060	3.0
881.7228	9.01	.02	278368.010	2.0	289706.330	3.0
881.7492	26.02	-2.61	186998.600	4.0	198336.580	5.0
881.7546	29.01	-4.13	117231.690	1.0	128569.600	2.0
881.7578	24.00	-4.60	35884.400	5.0	47222.270	6.0
881.7616	29.01	-4.12	136765.380	4.0	148103.200	3.0
881.8479	6.00	-1.06	72610.720	2.0	83947.430	3.0
881.8577	26.00	-4.20	37046.000	4.0	48382.585	5.0
881.8643	13.01	-1.00	138811.900	2.0	150148.400	2.0
881.8643	13.01	-.27	138811.900	1.0	150148.400	2.0
881.8643	13.01	-.47	138811.900	2.0	150148.400	3.0
881.8643	13.01	-2.54	138811.900	3.0	150148.400	2.0
881.8643	13.01	-1.37	138811.900	3.0	150148.400	3.0
881.8643	13.01	.06	138811.900	3.0	150148.400	4.0
881.8767	18.00	-2.28	113020.390	3.0	124356.730	2.0
881.8983	22.00	-3.89	13981.750	1.0	25317.813	1.0
881.9125	27.00	-.21	41528.530	5.5	52864.410	4.5
881.9351	18.00	-3.62	114147.750	1.0	125483.340	2.0
881.9406	22.00	-3.19	8602.340	2.0	19937.859	1.0
881.9443	26.00	-2.25	40404.492	1.0	51739.964	2.0
881.9514	7.01	.16	209737.970	3.0	221073.350	4.0
881.9577	25.01	.39	74559.970	3.0	85895.270	2.0
882.0059	25.00	.03	45156.110	2.5	56490.790	2.5
882.0355	8.01	.65	254590.700	4.5	265925.000	5.5
882.0423	8.00	.35	102662.026	2.0	113996.239	3.0
882.0441	9.02	.07	455648.670	1.5	466982.860	2.5
882.0534	26.02	-4.09	218923.080	3.0	230257.150	2.0
882.1197	22.00	-7.37	14105.680	3.0	25438.898	2.0
882.1476	10.01	-4.00	312824.820	3.5	324157.680	2.5
882.1492	10.01	-3.34	312824.840	2.5	324157.680	2.5
882.1850	10.01	.06	280700.770	3.5	292033.150	2.5
882.2021	23.00	-4.95	30832.580	2.5	42164.740	3.5
882.2098	25.00	-4.46	45754.270	3.5	57086.330	2.5
882.2277	24.01	-3.70	55023.300	2.5	66355.130	1.5
882.2729	24.01	-4.90	38315.000	2.5	49646.250	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
882.2729	7.01	-4.22	209737.970	3.0	221069.220	3.0
882.3040	22.00	-1.26	36132.210	4.0	47463.060	4.0
882.3220	25.00	-3.88	33825.490	2.5	45156.110	2.5
882.3414	18.01	-2.06	203501.800	2.5	214832.170	3.5
882.3897	22.01	-4.82	53554.900	2.5	64884.650	2.5
882.3976	22.00	-1.98	30039.211	5.0	41368.860	4.0
882.4107	9.02	-1.02	455648.670	1.5	466978.150	1.5
882.4146	23.00	-5.12	13801.530	1.5	25130.960	2.5
882.4170	17.01	-4.27	138623.000	1.0	149952.400	1.0
882.4227	26.00	-1.79	17726.985	2.0	29056.312	3.0
882.4318	12.01	-1.07	97455.120	.5	108784.330	.5
882.4754	18.00	-3.04	113020.390	3.0	124349.040	3.0
882.5027	10.01	-.73	280473.580	1.5	291801.880	1.5
882.5167	17.00	-4.32	90193.640	4.5	101521.760	3.5
882.5498	17.00	-1.29	90193.640	4.5	101521.336	4.5
882.5759	25.00	-4.20	51305.410	2.5	62632.770	3.5
882.5820	57.00	-1.10	7985.094	0.0	19315.486	0.0
882.5899	28.01	-3.83	92325.850	3.5	103653.030	3.5
882.6000	24.00	-4.12	35862.820	4.0	47189.870	4.0
882.6320	22.00	-3.76	27887.740	3.0	39214.380	3.0
882.6671	25.00	-2.69	51787.920	.5	63114.110	1.5
882.7362	26.00	-4.96	42911.897	5.0	54237.200	4.0
882.7809	24.00	-3.17	46058.200	4.0	57382.930	5.0
882.7816	26.01	-3.53	50187.950	3.5	61512.670	4.5
882.7855	25.00	-2.71	34845.260	.5	46169.930	.5
882.8041	26.00	-2.24	39969.830	3.0	51294.262	3.0
882.8456	28.01	-4.44	104503.220	2.5	115827.120	3.5
882.9064	16.01	-1.93	114162.200	.5	125485.320	.5
882.9181	10.01	-2.06	292651.320	1.5	303974.290	1.5
882.9532	24.00	-2.61	35398.020	4.0	46720.540	4.0
882.9547	18.01	-1.63	203344.980	1.5	214667.480	2.5
882.9640	14.00	-2.81	50189.389	2.0	61511.770	1.0
882.9984	10.01	-3.63	291495.040	2.5	302816.980	1.5
883.0764	9.01	-2.04	277902.790	2.0	289223.730	1.0
883.0787	26.02	-4.43	114351.920	3.0	125672.830	2.0
883.1006	24.00	-4.18	33934.880	3.0	45255.510	3.0
883.1123	10.01	-.27	317828.320	.5	329148.800	1.5
883.1224	9.00	-.32	117391.950	.5	128712.300	1.5
883.1606	24.00	-3.99	33935.650	2.0	45255.510	3.0
883.1755	7.01	-1.21	211749.350	0.0	223069.020	1.0
883.1998	26.00	-4.71	40894.972	2.0	52214.330	1.0
883.2012	24.00	-4.04	35870.530	4.0	47189.870	4.0
883.2246	7.01	-1.70	209737.970	3.0	221057.010	2.0
883.2277	24.00	-3.68	36558.550	2.0	47877.550	1.0
883.2457	10.01	-3.07	281332.550	.5	292651.320	1.5
883.2496	27.00	-4.42	44201.920	2.5	55520.640	3.5
883.2512	23.00	-1.78	26122.040	3.5	37440.740	4.5
883.2547	22.00	-3.41	29768.655	2.0	41087.310	3.0
883.2629	24.00	-4.01	33906.650	1.0	45225.200	2.0
883.3066	24.00	-4.85	37244.170	4.0	48562.160	4.0
883.3159	23.00	-2.08	26004.220	2.5	37322.090	3.5
883.3214	24.00	-3.41	35807.900	2.0	47125.700	3.0
883.3331	27.00	-3.40	43847.980	3.5	55165.630	2.5
883.3621	28.00	-4.04	47208.228	1.0	58525.507	1.0
883.4034	26.00	-2.62	34017.084	1.0	45333.834	2.0
883.4205	7.01	-.74	209737.970	3.0	221054.500	3.0
883.4354	21.00	-.96	25014.150	2.5	36330.490	2.5
883.4681	26.00	-3.82	37046.000	4.0	48361.920	4.0
883.5025	15.00	-.14	67113.820	2.5	78429.300	3.5
883.5080	12.01	-.77	97468.920	1.5	108784.330	.5
883.5197	27.00	-2.41	33466.870	3.5	44782.130	4.5
883.5283	25.01	-3.75	55371.300	3.0	66686.450	3.0
883.5384	27.00	-2.22	43199.650	2.5	54514.670	3.5
883.5566	20.00	-3.99	35730.454	2.0	47045.241	3.0
883.5712	24.00	-2.28	24897.550	4.0	36212.150	4.0
883.5712	10.01	-4.69	312843.080	1.5	324157.680	2.5
883.5728	24.00	-4.03	46058.200	4.0	57372.780	4.0
883.5850	39.01	-2.00	14760.326	0.0	26077.856	0.0
883.6090	40.00	-.74	15002.299	0.0	26319.522	0.0
883.6347	14.00	-1.58	51612.012	0.0	62925.800	1.0
883.6392	15.00	-2.65	68088.270	1.5	79402.000	2.5
883.6900	9.01	-.25	278397.120	1.0	289710.200	2.0
883.6908	15.00	-2.22	66343.330	.5	77656.400	.5
883.6992	12.00	-2.66	49346.729	1.0	60659.690	2.0
883.7274	24.00	-4.73	33060.740	3.0	44373.340	3.0
883.7407	25.01	-4.99	55696.500	4.0	67008.930	3.0
883.7595	29.01	-3.26	136754.110	2.0	148066.300	2.0
883.7766	24.00	-3.92	35813.730	3.0	47125.700	3.0
883.7805	14.00	-1.33	53362.240	3.0	64674.160	4.0
883.8001	18.01	-.69	183985.940	1.5	195297.610	1.5
883.8434	26.00	-2.11	23051.744	0.0	34362.860	1.0
883.9157	28.01	-3.05	104646.520	3.5	115956.710	2.5
883.9629	57.00	-2.05	3468.273	0.0	14780.965	0.0
883.9655	20.00	-2.46	35730.454	2.0	47040.007	2.0
883.9994	21.00	-4.29	33707.250	2.5	45016.370	3.5
884.0009	29.01	-2.05	137212.700	1.0	148521.800	1.0
884.0275	25.00	-.10	45259.170	1.5	56567.930	1.5
884.0338	28.00	-.62	44565.100	3.0	55873.780	2.0
884.0453	22.00	-4.39	30060.328	4.0	41368.860	4.0
884.0511	26.00	-4.11	40231.312	2.0	51539.770	2.0
884.0759	18.00	-2.78	112750.220	4.0	124058.360	3.0
884.0759	18.00	-1.24	112750.220	4.0	124058.360	4.0
884.0893	28.01	-3.27	100475.820	3.5	111783.790	3.5
884.1190	29.01	-2.73	136754.110	2.0	148061.700	3.0
884.1252	9.00	-4.98	126282.580	1.5	137590.090	2.5
884.1374	22.00	-4.30	27907.026	2.0	39214.380	3.0
884.1682	24.00	-2.43	35398.020	4.0	46704.980	5.0
884.1710	17.00	-2.70	84688.637	.5	95995.561	.5
884.2080	90.01	-3.02	4113.534	0.0	15423.090	0.0
884.2527	18.01	-1.46	195031.120	2.5	206337.000	3.5
884.2612	20.00	-1.76	35730.454	2.0	47036.225	1.0
884.2629	18.01	-1.60	195031.120	2.5	206336.870	2.5
884.2660	27.00	-2.62	43555.220	3.5	54860.930	4.5
884.2691	24.00	-2.13	35572.940	2.0	46878.610	3.0
884.2848	24.00	-2.61	35884.400	5.0	47189.870	4.0
884.3184	28.01	-4.96	122140.710	4.5	133445.750	4.5
884.3568	7.00	-1.89	93581.520	.5	104886.070	.5
884.4092	18.00	-2.63	112750.220	4.0	124054.100	3.0
884.4496	9.00	-.38	117308.558	1.5	128611.920	1.5
884.4529	9.02	-3.30	430012.480	1.5	441315.800	.5
884.4717	24.01	-4.18	52298.120	3.5	63601.200	3.5
884.4749	24.00	-4.42	46058.200	4.0	57361.240	3.0
884.4882	29.01	-3.36	136725.930	5.0	148028.800	5.0
884.5210	28.01	-4.51	121699.020	1.5	133001.470	.5
884.5594	28.01	-3.79	94705.930	3.5	106007.890	2.5
884.5821	14.00	-2.79	53362.240	3.0	64663.910	4.0
884.5999	17.00	-1.31	84485.309	1.5	95786.752	2.5
884.6012	26.00	-2.99	42859.756	2.0	54161.182	3.0
884.6173	18.00	-2.52	112750.220	4.0	124051.440	3.0
884.6291	25.01	-3.46	93719.600	0.0	105020.670	1.0
884.6353	28.00	-4.13	47328.850	2.0	58629.840	2.0
884.6432	7.01	.31	209925.760	2.0	221226.650	3.0
884.6580	28.00	-4.87	47328.850	2.0	58629.550	3.0
884.6690	26.00	-1.28	40404.492	1.0	51705.052	2.0
884.7156	20.00	-4.78	36731.615	1.0	48031.580	1.0
884.8259	26.00	-4.16	36079.353	3.0	47377.909	4.0
884.8491	23.01	-6.06	25191.080	2.0	36489.340	1.0
884.8513	26.00	-3.12	36940.600	2.0	48238.832	2.0
884.8513	26.00	-2.99	42532.729	3.0	53830.960	3.0
884.8671	26.02	-4.36	114339.950	4.0	125637.980	3.0
884.8851	13.01	-.34	138811.900	2.0	150109.700	3.0
884.8851	13.01	-1.24	138811.900	3.0	150109.700	3.0
884.9061	9.00	-.62	117308.558	1.5	128606.090	2.5
884.9102	22.00	-2.56	34947.120	1.0	46244.600	2.0
884.9139	64.00	-1.60	6694.574	0.0	17995.108	0.0
884.9384	28.00	-3.48	42954.234	2.0	54251.353	3.0
884.9533	23.00	-3.03	25930.510	1.5	37227.440	2.5
884.9708	26.00	-3.26	43079.013	1.0	54375.719	2.0
884.9932	18.00	-1.92	112750.220	4.0	124046.640	4.0
884.9932	18.00	-.30	112750.220	4.0	124046.640	5.0
884.9948	27.00	-4.09	43130.240	.5	54426.640	1.5
885.0010	29.01	-3.91	136765.380	4.0	148061.700	3.0
885.0042	15.00	-1.52	66360.120	1.5	77656.400	.5
885.0118	26.00	-4.53	26224.961	3.0	37521.144	2.0
885.0700	27.00	-2.45	35450.560	3.5	46746.000	2.5
885.0700	18.01	-.68	183985.940	1.5	195281.380	.5
885.0770	25.00	-3.16	52128.650	2.5	63424.000	3.5
885.0896	24.00	-3.72	33906.650	1.0	45201.840	1.0
885.1061	10.00	-1.90	161699.661	2.0	172994.640	2.0
885.1061	10.00	-4.46	161699.661	2.0	172994.640	3.0
885.1061	10.00	-4.70	161699.661	2.0	172994.640	3.0
885.1217	24.00	-2.64	35934.020	6.0	47228.800	5.0
885.1350	27.00	-4.03	42988.120	3.5	54282.730	2.5
885.1484	21.00	-4.51	33615.060	1.5	44909.500	2.5
885.2016	28.01	-3.56	122441.220	4.5	133734.980	3.5
885.2220	10.01	-2.89	302425.870	1.5	313719.370	2.5
885.2464	10.00	-3.04	161701.451	3.0	172994.640	2.0
885.2464	10.00	-3.39	161701.451	3.0	172994.640	3.0
885.2464	10.00	-4.35	161701.451	3.0	172994.640	4.0
885.2534	29.01	-3.24	136773.200	1.0	148066.300	2.0
885.2573	24.00	-3.93	31355.210	2.0	42648.260	3.0
885.2879	28.01	-4.85	105439.850	1.5	116732.510	2.5
885.2912	26.00	-3.23	32873.623	4.0	44166.240	3.0
885.2986	55.00	-3.20	14499.257	0.0	25794.881	0.0
885.3007	22.00	-2.64	37622.573	3.0	48915.070	2.0
885.3294	7.01	-2.38	203537.660	1.0	214829.790	1.0
885.3372	28.00	-4.56	45418.858	2.0	56710.889	2.0
885.3396	29.01	-2.02	135135.600	1.0	146427.600	1.0
885.3727	26.00	-3.94	40534.180	3.0	51825.758	3.0
885.4714	24.00	-4.39	33934.880	3.0	45225.200	2.0
885.4792	24.00	-3.81	35398.020	4.0	46688.240	3.0
885.4965	21.02	.77	148263.000	1.5	159553.000	2.5
885.5184	24.00	-4.81	51401.240	5.0	62690.960	5.0
885.5208	24.01	-3.28	73436.270	2.5	84725.960	3.5
885.5216	15.00	-2.86	66544.120	2.5	77833.800	1.5
885.5302	7.01	-.73	211779.450	1.0	223069.020	1.0
885.5318	24.00	-3.90	33935.650	2.0	45225.200	2.0
885.5480	22.00	-4.86	14028.470	2.0	25317.813	1.0
885.5514	29.01	-3.85	137913.800	1.0	149203.100	0.0
885.5740	20.00	-4.56	36554.749	1.0	47843.760	0.0
885.5772	25.01	-4.53	43557.030	1.0	54846.000	0.0
885.5780	28.01	-4.80	92792.080	3.5	104081.040	4.5
885.5945	24.00	-4.04	36577.730	4.0	47866.480	4.0
885.6573	22.01	-4.99	53596.700	1.5	64884.650	2.5
885.6745	26.01	-4.08	92695.620	2.5	103983.350	3.5
885.7203	22.00	-3.25	29907.273	2.0	41194.420	3.0
885.7412	18.01	-4.13	161048.640	1.5	172335.520	2.5
885.8032	25.02	-.57	181949.340	2.5	193235.430	2.5
885.8354	25.00	-2.73	51014.950	3.5	62300.630	4.5
885.8519	23.00	-1.63	31268.150	3.5	42553.620	4.5
885.8574	13.01	-.60	133679.300	3.0	144964.700	4.0
885.8574	13.01	-.41	133679.300	3.0	144964.700	4.0
885.8574	13.01	-4.59	133679.300	3.0	144964.700	3.0
885.8911	25.01	-4.69	72648.800	4.0	83933.770	3.0
885.8967	15.01	-2.14	129666.100	2.0	140951.000	3.0
885.8990	16.01	-1.11	114200.450	1.5	125485.320	.5
885.9061	28.01	-3.20	98561.220	2.5	109846.000	3.5
885.9061	17.00	-.94	90948.530	1.5	102233.310	2.5
885.9594	9.02	-3.58	406904.380	.5	418188.480	.5
885.9728	24.00	-3.91	31364.330	3.0	42648.260	3.0
886.0144	15.01	-2.81	118342.600	1.0	129626.000	1.0
886.0730	22.00	-4.23	14105.680	3.0	25388.334	4.0
886.0980	56.00	-1.05	12582.573	0.0	23868.006	0.0
886.1119	22.00	-4.69	29912.262	3.0	41194.420	3.0
886.1636	8.01	-1.09	254481.500	3.5	265763.000	3.5
886.1975	26.00	-1.83	43210.011	2.0	54491.080	3.0
886.2422	24.00	-3.47	35807.900	2.0	47088.400	1.0
886.2501	10.01	-.64	281171.380	2.5	292451.780	1.5
886.2517	22.00	-3.21	34204.971	4.0	45485.350	5.0
886.2548	28.00	-.36	32982.280	1.0	44262.619	2.0
886.2971	8.02	-1.36	367952.200	1.0	379232.000	1.0
886.3043	25.00	-3.42	51014.950	3.5	62294.660	3.5
886.3050	22.00	-1.04	29914.720	3.0	41194.420	3.0
886.3184	9.02	-3.81	406908.950	1.5	418188.480	.5
886.3207	8.01	.51	254481.500	3.5	265761.000	4.5
886.4245	7.00	-1.57	93581.520	.5	104859.700	1.5
886.4520	23.00	-3.49	32788.220	4.5	44066.050	3.5
886.4551	23.00	-3.01	26480.280	3.5	37758.070	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
886.5196	10.01	-4.14	302192.920	4.5	313469.890	3.5
886.5291	18.01	-.81	172816.210	.5	184093.060	.5
886.5306	10.00	-1.24	148257.790	1.0	159534.620	1.0
886.5346	10.01	-.56	292651.320	1.5	303928.100	.5
886.5500	74.00	-2.04	17986.627	0.0	29266.307	0.0
886.6572	20.02	-.01	327922.870	2.0	339198.090	1.0
886.6891	26.00	-.09	36686.159	4.0	47960.973	4.0
886.6918	28.01	-2.80	97273.830	2.5	108548.610	1.5
886.7193	18.01	-.60	190507.360	1.5	201781.790	2.5
886.7310	64.00	-1.45	7178.519	0.0	18455.896	0.0
886.7602	28.01	-.74	122441.220	4.5	133715.130	4.5
886.7878	24.00	-2.41	46077.090	1.0	57350.650	2.0
886.8442	26.00	-3.34	24338.766	3.0	35611.608	3.0
886.8476	13.01	-2.03	134917.300	1.0	146190.100	0.0
886.8515	28.01	-3.60	110021.920	4.5	121294.670	4.5
886.8535	26.00	-3.40	42859.756	2.0	54132.480	1.0
886.8570	24.00	-4.92	51401.240	5.0	62673.920	6.0
886.8680	10.01	.21	290583.170	1.5	301855.710	2.5
886.9333	25.01	-3.55	55371.300	3.0	66643.010	4.0
886.9908	28.01	-4.98	88171.880	4.5	99442.860	4.5
886.9971	13.01	-2.51	133914.100	2.0	145185.000	1.0
887.0183	27.00	-1.03	42988.120	3.5	54258.750	2.5
887.0206	18.01	-1.30	190511.190	2.5	201781.790	2.5
887.0300	63.00	-.09	19519.120	0.0	30792.696	0.0
887.0443	24.00	-3.63	31377.960	4.0	42648.260	3.0
887.0560	17.00	-3.92	90948.530	1.5	102218.680	2.5
887.0678	21.02	.92	148283.000	2.5	159553.000	3.5
887.0678	21.02	-.38	148283.000	2.5	159553.000	2.5
887.0710	10.01	-.67	291801.880	1.5	303071.840	2.5
887.0750	27.00	-1.27	42434.230	2.5	53704.140	2.5
887.0797	17.00	-2.26	90948.530	1.5	102218.380	1.5
887.0860	10.01	-.84	291968.140	.5	303237.910	1.5
887.0902	26.00	-4.03	36766.950	3.0	48036.667	2.0
887.0914	22.00	-5.71	7255.369	2.0	18525.070	2.0
887.1275	22.00	-4.84	17369.590	1.0	28638.832	2.0
887.1474	17.00	-2.96	85735.091	1.5	97004.081	1.5
887.1623	15.00	-4.12	65156.400	1.5	76425.200	2.5
887.1639	23.00	-.78	26171.960	4.5	37440.740	4.5
887.1702	29.01	-3.13	138981.300	2.0	150250.000	2.0
887.1934	28.00	-3.95	43464.019	1.0	54732.425	2.0
887.2332	27.00	-2.97	42434.230	2.5	53702.130	3.5
887.2490	25.00	-4.82	51305.410	2.5	62573.110	1.5
887.2490	13.01	-1.96	134917.300	1.0	146185.000	1.0
887.2490	13.01	-1.49	134917.300	1.0	146185.000	2.0
887.3364	6.00	-1.08	72610.720	2.0	83877.310	1.0
887.3514	12.02	-1.57	548720.700	1.0	559987.100	1.0
887.3679	24.00	-4.22	33935.650	2.0	45201.840	1.0
887.3766	18.01	-2.10	188766.150	2.5	200032.230	1.5
887.4305	16.00	-2.10	67876.685	4.0	79142.080	3.0
887.4305	16.00	-.92	67876.685	4.0	79142.080	4.0
887.4305	16.00	-.05	67876.685	4.0	79142.080	5.0
887.4718	6.00	-4.96	78116.740	1.0	89381.610	0.0
887.4808	18.00	-3.41	104102.144	1.0	115366.900	1.0
887.4908	24.00	-4.94	31028.330	2.0	42292.960	1.0
887.5215	9.02	-1.80	430012.480	1.5	441276.720	2.5
887.5735	25.01	-4.34	72648.800	4.0	83912.380	5.0
887.5861	29.01	-1.78	136765.380	4.0	148028.800	5.0
887.5976	26.00	-1.57	40491.260	0.0	51754.534	1.0
887.5987	28.01	-1.18	115956.710	2.5	127219.970	3.5
887.6041	26.00	-3.61	36975.640	3.0	48238.832	2.0
887.6499	21.00	-4.15	25014.150	2.5	36276.760	1.5
887.6681	23.00	-3.57	26352.590	2.5	37614.970	3.5
887.6744	13.01	-1.21	135012.100	1.0	146274.400	2.0
887.6767	24.00	-4.60	36552.130	3.0	47814.400	3.0
887.6830	29.01	-4.74	136754.110	2.0	148016.300	1.0
887.6886	22.00	-.48	36200.940	5.0	47463.060	4.0
887.7039	28.00	-1.32	44314.980	4.0	55576.905	3.0
887.7043	23.00	-6.35	14910.040	3.5	26171.960	4.5
887.7359	22.00	-4.41	27887.740	3.0	39149.260	2.0
887.7918	28.01	-4.42	67694.640	2.5	78955.450	1.5
887.8178	23.00	-2.63	31317.500	4.5	42577.980	5.5
887.8262	26.00	-3.55	24118.815	4.0	35379.189	5.0
887.8271	22.00	-3.47	26564.385	3.0	37824.748	4.0
887.8289	27.00	-1.73	42434.230	2.5	53694.570	3.5
887.8320	22.00	-2.57	37654.770	2.0	48915.070	2.0
887.8378	22.00	-4.81	34700.212	5.0	45960.439	6.0
887.8502	24.00	-3.93	33113.270	4.0	44373.340	3.0
887.8652	24.00	-4.30	33040.100	2.0	44299.980	2.0
887.8768	26.00	-2.53	33801.555	2.0	45061.287	3.0
887.9046	20.02	.12	359800.570	3.0	371059.950	3.0
887.9095	28.00	-4.71	47328.850	2.0	58588.168	3.0
887.9446	16.00	-.95	67883.208	0.0	79142.080	1.0
887.9730	20.00	-2.81	36547.688	0.0	47806.200	1.0
887.9763	14.00	-3.78	50189.389	2.0	61447.860	2.0
887.9913	10.01	-.45	279324.890	1.5	290583.170	1.5
888.0308	16.01	-2.55	153201.720	1.5	164459.500	2.5
888.0527	16.00	-.95	67884.577	1.0	79142.080	1.0
888.0527	16.00	-.65	67884.577	1.0	79142.080	2.0
888.1144	26.01	-4.96	50076.100	1.5	61332.820	1.5
888.1349	28.01	-1.62	93390.060	2.5	104646.520	3.5
888.1893	10.01	.24	291495.040	2.5	302750.810	3.5
888.2317	16.00	-1.80	67886.847	2.0	79142.080	1.0
888.2317	16.00	-.80	67886.847	2.0	79142.080	2.0
888.2317	16.00	-.41	67886.847	2.0	79142.080	3.0
888.2367	24.00	-3.05	35870.530	4.0	47125.700	3.0
888.2827	26.00	-3.51	40207.120	3.0	51461.707	4.0
888.3077	27.00	-3.19	43911.360	1.5	55165.630	2.5
888.3093	21.00	-3.85	30706.610	1.5	41960.860	2.5
888.3559	23.00	-4.01	26249.480	1.5	37503.140	2.5
888.3685	14.00	-1.77	48020.074	1.0	59273.575	1.0
888.3733	10.01	-.12	290803.820	.5	302057.260	.5
888.4063	16.00	-1.80	67889.058	3.0	79142.080	2.0
888.4063	16.00	-.77	67889.058	3.0	79142.080	3.0
888.4063	16.00	-.22	67889.058	3.0	79142.080	4.0
888.4246	24.00	-4.31	37205.880	3.0	48458.670	2.0
888.4885	24.00	-2.75	46109.260	2.0	57361.240	3.0
888.4939	14.00	-3.29	50054.800	4.0	61306.713	4.0
888.5185	28.02	-4.88	121566.700	1.0	132818.300	2.0
888.5303	20.00	-2.34	36554.749	1.0	47806.200	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
888.5379	26.00	-2.78	33412.706	3.0	44664.061	2.0
888.5556	15.00	-2.56	68088.270	1.5	79339.400	1.5
888.6251	14.00	-4.18	50054.800	4.0	61305.050	3.0
888.6872	17.00	-2.83	84648.100	2.5	95897.565	1.5
888.6891	7.01	-1.02	209823.910	4.0	221073.350	4.0
888.7058	26.00	-4.40	39969.830	3.0	51219.059	3.0
888.7200	10.01	-2.95	294333.220	.5	305582.270	.5
888.7207	26.02	-3.15	188013.400	4.0	199262.440	3.0
888.7570	14.00	-3.90	50054.800	4.0	61303.381	3.0
888.7666	15.00	-1.84	67971.140	.5	79219.600	.5
888.7737	28.01	-.79	108548.610	1.5	119796.980	2.5
888.7990	27.00	-4.43	44201.920	2.5	55449.970	2.5
888.8736	26.00	-4.85	46727.055	2.0	57974.160	2.0
888.9009	10.01	-1.82	292033.150	2.5	303279.910	2.5
888.9641	27.00	-4.61	43199.650	2.5	54445.610	2.5
888.9791	14.00	-3.43	49399.670	1.0	60645.441	2.0
888.9894	27.00	-7.14	13795.520	2.5	25041.160	1.5
888.9942	16.01	-1.49	153201.720	1.5	164447.300	2.5
889.0147	18.01	.13	190106.230	1.5	201351.550	2.5
889.0155	7.01	-2.46	209823.910	4.0	221069.220	3.0
889.0752	28.00	-2.79	46522.965	2.0	57767.520	1.0
889.0985	28.01	-2.78	105588.890	4.5	116833.150	4.5
889.1356	26.00	-1.99	43022.969	4.0	54266.760	5.0
889.1397	27.00	-3.26	43921.890	2.5	55165.630	2.5
889.1903	29.01	-3.70	136773.200	1.0	148016.300	1.0
889.2088	26.00	-4.55	40594.413	4.0	51837.279	3.0
889.2216	10.00	-2.16	158601.115	2.0	169843.820	2.0
889.2369	27.00	-1.71	42269.320	4.5	53511.830	5.5
889.2591	27.00	-3.05	40827.770	1.5	52070.000	2.5
889.2629	26.00	-4.75	40052.080	2.0	51294.262	3.0
889.2719	14.00	-.83	48264.292	3.0	59506.359	2.0
889.2798	26.00	-3.42	43137.472	3.0	54379.440	3.0
889.3255	24.00	-2.45	46109.260	2.0	57350.650	2.0
889.3287	7.01	-.51	211827.670	2.0	223069.020	1.0
889.3421	24.00	-2.92	35813.730	3.0	47054.910	4.0
889.3429	23.00	-3.86	15103.770	4.5	26344.940	4.5
889.3718	28.00	-1.01	44336.100	4.0	55576.905	3.0
889.3896	24.00	-2.67	35807.900	2.0	47048.480	3.0
889.3904	23.00	-4.51	26182.600	.5	37423.170	1.5
889.3910	28.00	-3.18	47208.228	1.0	58448.790	0.0
889.4023	20.02	-1.19	360207.160	2.0	371447.580	1.0
889.4047	23.01	-3.83	62176.240	4.0	73416.630	5.0
889.4070	24.01	-2.55	73485.600	3.5	84725.960	3.5
889.4150	14.00	-2.29	49060.601	1.0	60300.860	2.0
889.4695	24.00	-3.97	35807.900	2.0	47047.470	2.0
889.4862	10.01	-4.13	302192.920	4.5	313432.280	3.5
889.4894	26.00	-4.90	43210.011	2.0	54449.330	1.0
889.5155	18.01	-.90	190106.230	1.5	201345.220	1.5
889.5439	25.00	-2.71	34845.260	.5	46083.890	1.5
889.5487	26.01	-9.82	27620.390	2.5	38858.960	2.5
889.5487	10.01	-2.49	302192.920	4.5	313431.490	4.5
889.5673	10.00	-3.00	158601.115	2.0	169839.450	1.0
889.5743	26.00	-4.87	43137.472	3.0	54375.719	2.0
889.5803	23.00	-3.46	31268.150	3.5	42506.320	4.5
889.6010	26.00	-3.21	35767.546	4.0	47005.455	5.0
889.6135	18.01	-4.82	179931.770	1.5	191169.520	1.5
889.6144	25.00	-4.33	51515.630	2.5	62753.370	2.5
889.7015	28.01	-.96	105838.060	3.5	117074.700	3.5
889.7291	26.00	-3.03	42532.729	3.0	53769.020	4.0
889.7426	23.00	-2.75	31317.500	4.5	42553.620	4.5
889.7490	56.01	-.42	46154.890	0.0	57394.015	0.0
889.7537	20.02	-4.33	327962.110	1.0	339198.090	1.0
889.7553	24.01	-3.09	54444.190	3.5	65680.150	4.5
889.7609	10.01	-.72	280797.260	2.5	292033.150	2.5
889.7632	15.00	-1.16	66813.040	1.5	78048.900	.5
889.7854	25.01	-9.31	27570.950	5.0	38806.530	4.0
889.7949	23.00	-4.50	15270.420	1.5	26505.880	2.5
889.8844	10.01	-.04	279137.620	3.5	290371.950	2.5
889.8971	29.01	-3.03	135863.930	1.0	147098.100	0.0
889.9010	27.00	-2.81	43242.950	2.5	54477.070	3.5
889.9223	20.00	-1.60	37298.287	2.0	48532.139	3.0
889.9232	14.00	-1.10	50189.389	2.0	61423.230	3.0
889.9296	18.01	.04	183797.360	2.5	195031.120	2.5
889.9312	24.00	-4.76	35813.730	3.0	47047.470	2.0
889.9312	6.00	-2.60	77679.820	2.0	88913.560	2.0
889.9328	10.01	-3.53	294333.220	.5	305566.940	1.5
889.9430	29.01	-3.93	136754.110	2.0	147987.700	2.0
889.9519	40.00	-1.09	12663.231	0.0	23899.793	0.0
889.9533	28.01	-3.99	105499.050	3.5	116732.510	2.5
889.9613	6.00	-4.22	78116.740	1.0	89350.100	2.0
889.9895	20.00	-2.76	37298.287	2.0	48531.290	2.0
889.9895	20.00	-1.83	37298.287	2.0	48531.290	3.0
889.9924	9.00	-.85	116987.394	3.5	128220.360	3.5
890.0048	28.01	-3.81	99340.550	3.5	110573.360	2.5
890.0127	10.01	.03	280262.330	3.5	291495.040	2.5
890.0207	28.01	-1.16	107082.210	2.5	118314.820	2.5
890.0317	18.00	-3.32	113426.050	2.0	124658.520	2.0
890.0899	9.00	.73	116987.394	3.5	128219.130	4.5
890.0912	28.01	-3.47	119100.060	1.5	130331.780	1.5
890.0991	25.00	-.38	45259.170	1.5	56490.790	2.5
890.1177	17.00	-2.50	85917.937	.5	97149.323	.5
890.1418	20.00	-2.12	36575.119	2.0	47806.200	1.0
890.1808	7.01	-2.29	209823.910	4.0	221054.500	3.0
890.2196	19.00	-2.02	21534.700	2.5	32764.800	2.5
890.2196	19.00	-.72	21534.700	2.5	32764.800	3.5
890.2669	26.00	-3.06	43325.946	3.0	54555.450	4.0
890.2895	26.00	-3.86	40231.312	2.0	51460.530	3.0
890.2921	26.00	-3.84	46744.975	3.0	57974.160	2.0
890.3108	28.01	-3.64	121699.020	1.5	132927.970	1.5
890.3330	23.00	-6.62	10892.500	3.5	22121.170	4.5
890.3909	26.00	-2.21	40534.180	3.0	51762.120	2.0
890.3980	23.00	-3.59	25930.510	1.5	37158.360	1.5
890.4019	15.01	-1.60	118342.600	1.0	129570.400	1.0
890.4019	19.00	-.87	21537.000	1.5	32764.800	2.5
890.4265	22.00	-6.67	7255.369	2.0	18482.860	1.0
890.4297	29.01	-4.00	118532.150	2.0	129759.600	1.0
890.4662	27.00	-.75	43199.650	2.5	54426.640	1.5
890.4890	22.00	-4.34	17369.590	1.0	28596.293	1.0
890.4908	15.00	-1.35	67113.820	2.5	78340.500	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
890.4924	25.01	-3.47	72648.800	4.0	83875.460	4.0
890.5028	20.00	-2.39	35818.713	3.0	47045.241	3.0
890.5059	23.00	-3.44	32692.090	3.5	43918.580	2.5
890.5384	10.01	-.66	280268.960	2.5	291495.040	2.5
890.5654	18.01	.63	189654.780	2.5	200880.520	3.5
890.5780	41.00	-1.73	11937.313	0.0	23165.976	0.0
890.5987	26.00	-4.79	40842.130	3.0	52067.450	2.0
890.6241	18.00	-2.37	113426.050	2.0	124651.050	1.0
890.6876	17.01	-2.91	161348.400	1.0	172572.600	2.0
890.7034	28.01	-4.67	123434.600	4.5	134658.600	4.5
890.7145	28.01	-3.35	119909.720	1.5	131133.580	2.5
890.7225	28.01	-4.40	104646.520	3.5	115870.280	2.5
890.7431	8.01	-3.36	254481.500	3.5	265705.000	2.5
890.7556	22.00	-2.02	29971.078	4.0	41194.420	3.0
890.7645	25.01	-8.06	27583.300	4.0	38806.530	4.0
890.7653	23.00	-3.02	26004.220	2.5	37227.440	2.5
890.7965	26.00	-4.43	36940.600	2.0	48163.427	2.0
890.8098	23.00	-4.98	14949.300	4.5	26171.960	4.5
890.8113	10.01	-3.96	302247.780	3.5	313470.420	2.5
890.8161	9.02	-2.88	442147.190	2.5	453369.770	1.5
890.8233	26.00	-4.05	39969.830	3.0	51192.320	4.0
890.8534	10.01	-2.05	302247.780	3.5	313469.890	3.5
890.8723	22.00	-3.98	37617.868	4.0	48839.740	3.0
890.8741	28.01	-3.55	103653.030	3.5	114874.880	2.5
890.9182	20.00	-1.53	35818.713	3.0	47040.007	2.0
890.9709	28.00	-4.26	46522.965	2.0	57743.596	3.0
890.9773	25.01	-2.85	62564.700	1.0	73785.250	2.0
891.0051	8.02	-.87	356732.000	0.0	367952.200	1.0
891.0234	9.00	.03	117391.950	.5	128611.920	1.5
891.0560	18.01	-3.85	195128.270	4.5	206347.830	5.5
891.0726	27.00	-3.93	43295.320	4.5	54514.670	3.5
891.0758	23.00	-3.96	32846.740	2.5	44066.050	3.5
891.0758	23.00	-4.46	32846.740	2.5	44066.050	3.5
891.0781	24.00	-2.55	35501.260	3.0	46720.540	4.0
891.1298	26.02	-2.91	188109.320	0.0	199327.950	1.0
891.1560	25.01	-8.63	27588.230	3.0	38806.530	4.0
891.1850	22.00	-4.20	20795.599	5.0	32013.534	6.0
891.2068	20.01	.64	56839.250	1.5	68056.910	2.5
891.2460	22.00	-3.50	37622.573	3.0	48839.740	3.0
891.2758	9.00	.24	117308.558	1.5	128525.350	2.5
891.2900	13.00	-2.34	32949.804	.5	44166.417	1.5
891.2923	17.00	.16	74225.846	1.5	85442.430	1.5
891.3046	25.00	-2.66	52015.000	3.5	63231.430	4.5
891.3268	22.00	-1.30	36065.750	3.0	47281.900	3.0
891.3316	24.00	-3.91	36577.730	4.0	47793.820	5.0
891.3554	18.01	-3.86	188766.150	2.5	199981.940	1.5
891.3660	62.01	-1.03	11937.313	0.0	23156.049	0.0
891.3801	25.01	-4.52	70940.240	2.0	82155.720	1.0
891.3920	21.00	-4.65	30706.610	1.5	41921.940	1.5
891.4199	22.00	-4.34	17423.853	2.0	28638.832	2.0
891.4327	26.00	-3.47	42532.729	3.0	53747.547	3.0
891.4333	27.00	-2.59	40345.950	2.5	51560.760	2.5
891.4342	13.01	-.65	133914.100	2.0	145128.900	3.0
891.4404	9.00	-1.17	117308.558	1.5	128523.280	1.5
891.4580	29.01	-4.15	136773.200	1.0	147987.700	2.0
891.4793	26.00	-3.46	43022.969	4.0	54237.200	4.0
891.4857	10.01	-.61	281332.550	.5	292546.700	.5
891.4990	56.00	-1.03	12179.286	0.0	23396.348	0.0
891.5362	10.00	-2.42	158601.115	2.0	169814.630	2.0
891.5367	28.01	-.46	105861.190	2.5	117074.700	3.5
891.5478	27.00	-2.95	40827.770	1.5	52041.140	.5
891.5502	23.00	-7.06	11100.650	4.5	22313.990	5.5
891.5525	18.01	-.57	190507.360	1.5	201720.670	1.5
891.5534	25.00	-3.99	51638.170	2.5	62851.470	3.5
891.5732	25.01	-3.78	62572.200	2.0	73785.250	2.0
891.6241	24.00	-1.76	31393.400	5.0	42605.810	6.0
891.6567	23.00	-5.44	14910.040	3.5	26122.040	3.5
891.6599	28.01	-2.96	107082.210	2.5	118294.170	3.5
891.6687	24.00	-2.69	37233.500	5.0	48445.350	6.0
891.6718	18.01	-3.27	185093.230	4.5	196305.040	3.5
891.6836	9.00	-1.90	117308.558	1.5	128520.220	.5
891.7132	24.00	-1.86	31377.960	4.0	42589.250	5.0
891.7804	17.00	-3.28	85735.091	1.5	96945.536	2.5
891.8251	55.00	-2.22	14499.257	0.0	25712.218	0.0
891.8294	20.00	-4.62	35835.413	2.0	47045.241	3.0
891.8556	8.01	-.79	254481.500	3.5	265691.000	3.5
891.8571	18.01	-2.14	190511.190	2.5	201720.670	1.5
891.8593	22.00	-2.95	35035.147	2.0	46244.600	2.0
891.8611	9.02	-.20	455768.720	.5	466978.150	1.5
891.8627	16.01	-4.11	140750.000	1.5	151959.410	1.5
891.8627	6.00	-4.14	72610.720	2.0	83820.130	1.0
891.8651	15.00	-.40	65450.020	1.5	76659.400	2.5
891.8800	34.00	1.29	47910.567	0.0	59122.838	0.0
891.8811	25.00	-2.71	51305.410	2.5	62514.590	2.5
891.8994	28.01	-3.50	119913.330	4.5	131122.280	5.5
891.9011	17.00	-2.11	84688.637	.5	95897.565	1.5
891.9264	25.01	-2.70	62572.200	2.0	73780.810	3.0
891.9750	21.00	-4.79	33615.060	1.5	44823.060	1.5
891.9797	23.00	-1.51	9824.580	2.5	21032.520	3.5
891.9972	26.01	-3.65	54870.620	2.5	66078.340	2.5
891.9987	26.00	-4.01	39625.784	4.0	50833.485	5.0
891.9996	26.00	-.91	40842.130	3.0	52049.820	2.0
892.0155	28.01	-4.15	123434.600	4.5	134642.090	3.5
892.0203	18.01	.18	183675.570	3.5	194883.000	3.5
892.0494	26.00	-4.29	42859.756	2.0	54066.821	2.0
892.1437	23.01	-4.70	44098.460	3.0	55304.340	4.0
892.1700	23.00	-3.70	26021.890	3.5	37227.440	2.5
892.1748	27.00	-3.43	40827.770	1.5	52033.260	1.5
892.1994	27.00	-4.58	44201.920	2.5	55407.100	1.5
892.2100	10.00	-2.68	159379.993	0.0	170585.040	1.0
892.2130	28.00	-3.35	47424.830	1.0	58629.840	2.0
892.2164	20.00	-2.97	36547.688	0.0	47752.655	1.0
892.2328	10.01	-1.99	292033.150	2.5	303237.910	1.5
892.2345	22.00	-2.03	37654.770	2.0	48859.510	1.0
892.2461	20.00	-3.32	35835.413	2.0	47040.007	2.0
892.2496	18.01	-3.47	184093.060	.5	195297.610	1.5
892.2521	22.00	-4.90	34700.212	5.0	45904.730	6.0
892.2610	26.00	-1.84	40257.300	5.0	51461.707	4.0
892.2620	70.01	.72	44280.979	0.0	55488.449	0.0
892.2687	18.02	-2.92	213950.870	2.0	225155.180	1.0
892.2799	24.00	-4.26	31048.000	7.0	42252.170	6.0
892.2854	25.01	-4.87	70940.240	2.0	82144.340	3.0
892.3013	13.01	-2.64	133435.000	2.0	144638.900	2.0
892.3013	13.01	-1.91	133435.000	2.0	144638.900	1.0
892.3013	13.01	-4.18	133435.000	2.0	144638.900	3.0
892.3308	19.00	-2.56	21026.580	.5	32230.110	1.5
892.3555	13.00	-2.07	32965.643	1.5	44168.863	2.5
892.3569	12.00	-1.38	43503.333	0.0	54706.536	1.0
892.3826	29.01	-1.85	135733.600	3.0	146936.480	2.0
892.3858	24.00	-4.85	31049.330	6.0	42252.170	6.0
892.4001	27.00	-4.90	43242.950	2.5	54445.610	2.5
892.4099	20.00	-2.75	36554.749	1.0	47757.286	2.0
892.4328	21.00	-4.68	33707.250	2.5	44909.500	2.5
892.4519	6.00	-3.17	78148.090	2.0	89350.100	2.0
892.4567	28.01	-4.40	119913.330	4.5	131115.280	4.5
892.4925	28.00	-4.14	47328.850	2.0	58530.350	3.0
892.5127	14.00	-3.05	51612.012	0.0	62813.260	1.0
892.5296	14.00	-1.43	48020.074	1.0	59221.110	0.0
892.5436	19.00	-2.86	21026.580	.5	32227.440	.5
892.5474	20.00	-2.60	35835.413	2.0	47036.225	1.0
892.5504	13.00	-3.02	32965.643	1.5	44166.417	1.5
892.5706	24.00	-1.87	31364.330	3.0	42564.850	4.0
892.5834	24.00	-2.32	24833.860	3.0	36034.220	3.0
892.6041	25.00	.01	45156.110	2.5	56356.210	3.5
892.6049	8.02	.23	366486.910	1.0	377687.000	2.0
892.6073	18.01	-2.93	147227.970	.5	158428.030	.5
892.6081	23.00	-1.55	26122.040	3.5	37322.090	3.5
892.6423	10.01	-2.35	280768.520	.5	291968.140	.5
892.6663	26.02	-1.84	188013.400	4.0	199212.720	4.0
892.6814	18.01	-.70	183797.360	2.5	194996.490	1.5
892.7120	22.00	-5.55	14028.470	2.0	25227.217	3.0
892.7316	13.01	-1.74	133440.400	3.0	144638.900	2.0
892.7316	13.01	-2.64	133440.400	3.0	144638.900	3.0
892.7356	20.01	.79	56858.460	2.5	68056.910	3.5
892.7356	20.01	-.51	56858.460	2.5	68056.910	2.5
892.7399	10.00	-2.38	159379.993	0.0	170578.390	1.0
892.7412	24.00	-4.57	46174.400	3.0	57372.780	4.0
892.7790	20.00	-3.10	36554.749	1.0	47752.655	1.0
892.8465	18.02	-3.17	213950.870	2.0	225147.930	2.0
892.8828	12.00	-1.69	47844.414	1.0	59041.019	2.0
892.8903	27.00	-6.82	14036.280	1.5	25232.790	.5
892.8967	9.02	-4.82	442147.190	2.5	453343.620	2.5
892.9070	26.00	-1.18	41018.029	2.0	52214.330	1.0
892.9110	26.02	-2.71	188131.700	1.0	199327.950	1.0
892.9251	10.00	-1.82	158601.115	2.0	169797.190	3.0
892.9429	24.00	-2.93	31393.400	5.0	42589.250	5.0
892.9685	25.00	.17	44993.920	3.5	56189.450	4.5
893.0027	7.01	-1.22	203189.030	1.0	214384.130	2.0
893.0035	17.00	-1.77	85735.091	1.5	96930.181	.5
893.0159	55.00	-2.05	14596.845	0.0	25794.854	0.0
893.0211	25.00	-3.66	51100.490	4.5	62295.360	5.5
893.0478	22.00	-4.83	36000.144	4.0	47194.680	4.0
893.0770	25.00	-3.89	51100.490	4.5	62294.660	3.5
893.0801	6.00	-3.83	77679.820	2.0	88873.950	2.0
893.0887	26.00	-2.55	36766.950	3.0	47960.973	4.0
893.0913	18.01	-4.23	189040.870	1.5	200234.860	2.5
893.1328	18.01	.21	188766.150	2.5	199959.620	2.5
893.1336	28.01	-1.93	119909.720	1.5	131103.180	2.5
893.1456	25.01	-3.93	62587.500	3.0	73780.810	3.0
893.1623	23.00	-1.34	26738.310	4.5	37931.410	5.5
893.1790	26.00	-3.67	24574.655	4.0	35767.546	4.0
893.2094	26.00	-4.92	44183.607	2.0	55376.117	1.0
893.2110	24.00	-4.07	35862.820	4.0	47055.310	5.0
893.2821	13.01	-1.58	133447.300	4.0	144638.900	3.0
893.2884	23.00	-1.78	9636.960	1.5	20828.480	2.5
893.2901	13.01	-1.76	134917.300	1.0	146108.800	1.0
893.3075	18.01	-4.73	200880.520	3.5	212071.800	3.5
893.3451	28.01	-2.98	100592.980	3.5	111783.790	3.5
893.3636	20.00	-2.75	36575.119	2.0	47765.697	3.0
893.3643	26.02	-3.05	188109.580	3.0	199300.150	2.0
893.3794	15.00	-1.11	66544.120	2.5	77734.500	2.5
893.3938	23.01	-4.66	44159.430	2.0	55349.630	3.0
893.4121	18.00	-4.85	113468.550	2.0	124658.520	2.0
893.4186	26.01	-4.28	50142.930	2.5	61332.820	1.5
893.4212	12.00	-2.17	47851.162	2.0	59041.019	2.0
893.5040	23.00	-4.01	31317.500	4.5	42506.320	4.5
893.5207	12.00	-2.88	49346.729	1.0	60535.340	2.0
893.5431	26.02	-3.68	219004.530	4.0	230192.860	3.0
893.5439	18.01	-3.83	184093.060	.5	195281.380	.5
893.5495	14.01	-1.69	113760.410	3.5	124948.660	3.5
893.5495	14.01	-.15	113760.410	3.5	124948.660	4.5
893.5631	14.01	-.26	113760.580	2.5	124948.660	3.5
893.5865	26.00	-4.46	36975.640	3.0	48163.427	2.0
893.6510	24.00	-3.28	35501.260	3.0	46688.240	3.0
893.6549	25.01	-3.40	93868.500	1.0	105055.430	2.0
893.6581	24.00	-2.75	31377.960	4.0	42564.850	4.0
893.6607	9.00	-3.47	104731.050	1.5	115917.909	2.5
893.6621	24.00	-3.30	46174.400	3.0	57361.240	3.0
893.7093	29.01	-1.94	136919.350	3.0	148105.600	4.0
893.7157	23.00	-2.62	25930.510	1.5	37116.680	.5
893.7284	18.01	-3.15	189437.690	.5	200623.700	.5
893.7364	28.01	-3.94	116145.690	3.5	127331.600	2.5
893.7532	18.01	-1.18	183675.570	3.5	194861.270	2.5
893.7564	24.00	-4.68	35862.820	4.0	47048.480	3.0
893.7828	26.00	-4.31	37046.000	4.0	48231.330	5.0
893.7844	26.02	-3.25	188142.640	2.0	199327.950	1.0
893.8052	23.00	-2.27	21603.170	4.5	32788.220	4.5
893.8115	22.00	-4.71	37654.770	2.0	48839.740	3.0
893.8491	10.01	-1.97	302247.780	3.5	313432.280	3.5
893.8587	24.00	-3.70	35870.530	4.0	47054.910	4.0
893.8870	22.00	-3.37	37852.434	4.0	49036.460	4.0
893.8967	26.00	-4.87	43499.485	4.0	54683.390	4.0
893.9011	29.01	-3.62	136919.350	3.0	148103.200	3.0
893.9123	10.01	-1.03	302247.780	3.5	313431.490	4.5
893.9138	27.00	-2.24	43242.950	2.5	54426.640	1.5
893.9210	24.00	-2.01	31355.210	2.0	42538.810	3.0
893.9210	28.01	-3.20	103653.030	3.5	114836.630	3.5
893.9291	8.01	-2.43	254481.500	3.5	265665.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
894.0186	10.02	-4.99	398952.340	2.0	410134.720	1.0
894.0239	26.00	-4.13	36940.600	2.0	48122.913	3.0
894.0274	26.00	-4.44	39625.784	4.0	50808.053	4.0
894.0285	26.00	-4.98	40421.890	4.0	51604.146	3.0
894.0356	20.00	-3.20	36575.119	2.0	47757.286	2.0
894.0458	27.00	-4.97	43263.570	1.5	54445.610	2.5
894.0689	27.00	-2.09	43295.320	4.5	54477.070	3.5
894.0809	26.01	-3.78	92427.220	4.5	103608.820	4.5
894.1209	24.00	-4.28	48824.500	4.0	60005.600	5.0
894.1490	10.00	-2.68	158795.992	1.0	169976.740	0.0
894.1609	28.01	-2.80	104646.520	3.5	115827.120	3.5
894.1737	23.00	-4.15	32738.140	1.5	43918.580	2.5
894.1737	18.01	-3.96	203730.860	1.5	214911.300	2.5
894.1833	6.00	-3.62	72610.720	2.0	83791.040	2.0
894.2059	22.00	-3.63	29907.273	2.0	41087.310	3.0
894.2113	28.01	-4.53	119913.330	4.5	131093.300	4.5
894.2129	28.01	-3.31	123434.600	4.5	134614.550	5.5
894.2839	26.00	-4.59	39969.830	3.0	51148.892	2.0
894.2913	10.02	-4.96	398955.750	1.0	410134.720	1.0
894.2944	11.00	-2.74	29172.839	2.5	40351.770	2.5
894.2944	11.00	-1.44	29172.839	2.5	40351.770	3.5
894.2984	11.00	-1.59	29172.889	1.5	40351.770	2.5
894.3078	26.00	-3.61	22838.320	2.0	34017.084	1.0
894.3283	26.00	-4.67	43079.013	1.0	54257.520	2.0
894.3417	24.00	-4.72	33934.880	3.0	45113.220	3.0
894.3473	55.00	-.16	0.000	0.0	11181.339	0.0
894.3689	13.01	-1.74	135012.100	1.0	146190.100	0.0
894.3729	24.00	-2.19	35870.530	4.0	47048.480	3.0
894.3873	24.01	-4.56	53271.070	2.5	64448.840	2.5
894.4061	20.00	-4.24	36575.119	2.0	47752.655	1.0
894.4729	16.01	-1.33	153282.800	2.5	164459.500	2.5
894.5089	24.00	-3.91	46174.400	3.0	57350.650	2.0
894.5158	26.00	-.68	40594.413	4.0	51770.577	3.0
894.5170	26.00	-3.99	43210.011	2.0	54386.160	1.0
894.5289	13.01	-1.67	135009.000	0.0	146185.000	1.0
894.5361	23.00	-3.20	31228.980	2.5	42404.890	3.5
894.5449	24.00	-3.68	35501.260	3.0	46677.060	2.0
894.5850	17.01	-4.95	138623.000	1.0	149798.300	2.0
894.6034	24.01	-4.22	55081.700	1.5	66256.770	.5
894.6051	22.00	-3.96	29912.262	3.0	41087.310	3.0
894.6066	26.01	-4.23	31483.200	3.5	42658.230	3.5
894.6240	26.00	-3.78	22946.810	1.0	34121.623	0.0
894.6506	24.00	-2.62	31364.330	3.0	42538.810	3.0
894.6570	29.01	-2.39	138028.700	1.0	149203.100	0.0
894.6770	26.00	-3.90	40534.180	3.0	51708.330	2.0
894.6875	18.01	-1.09	192556.840	2.5	203730.860	1.5
894.7019	26.01	-4.24	54904.500	3.5	66078.340	2.5
894.7259	24.00	-1.04	25038.610	5.0	36212.150	4.0
894.7772	13.01	-2.27	135012.100	1.0	146185.000	1.0
894.7772	13.01	-1.79	135012.100	1.0	146185.000	2.0
894.7875	28.01	-3.49	123434.600	4.5	134607.370	4.5
894.7899	23.00	-5.22	14949.300	4.5	26122.040	3.5
894.8004	28.01	-.94	107142.210	1.5	118314.820	2.5
894.8062	17.00	-.12	71958.363	2.5	83130.900	1.5
894.8109	26.00	-4.21	40894.972	2.0	52067.450	2.0
894.8140	22.00	-4.78	17423.853	2.0	28596.293	1.0
894.8243	10.01	-3.58	302247.780	3.5	313420.090	2.5
894.8251	8.01	-2.91	254590.700	4.5	265763.000	3.5
894.8495	22.00	-1.71	37852.434	4.0	49024.430	3.0
894.8740	26.01	-4.97	71964.810	2.5	83136.500	3.5
894.8933	24.00	-4.41	31393.400	5.0	42564.850	4.0
894.9091	14.00	-1.12	48102.323	2.0	59273.575	1.0
894.9109	23.00	-2.56	15078.250	.5	26249.480	1.5
894.9183	22.00	-2.38	37743.933	3.0	48915.070	2.0
894.9197	23.00	-4.75	15000.840	5.5	26171.960	4.5
894.9365	24.00	-3.64	35884.400	5.0	47055.310	5.0
894.9686	24.00	-2.21	35884.400	5.0	47054.910	4.0
894.9854	8.01	-.95	254590.700	4.5	265761.000	4.5
895.0054	27.00	-2.01	42988.120	3.5	54158.170	4.5
895.0206	26.00	-2.61	33507.102	3.0	44676.963	4.0
895.0311	18.01	-5.00	172816.210	.5	183985.940	1.5
895.0455	28.01	-4.39	105668.780	2.5	116838.330	1.5
895.0552	26.00	-2.33	43210.011	2.0	54379.440	3.0
895.0640	22.00	-3.36	37555.021	3.0	48724.340	2.0
895.1336	26.02	-2.71	188131.700	1.0	199300.150	2.0
895.1353	25.00	-2.36	33825.490	2.5	44993.920	3.5
895.1545	27.00	-3.24	23184.230	2.5	34352.420	1.5
895.2227	22.00	-2.65	26657.409	4.0	37824.748	4.0
895.2290	23.00	-4.88	15270.420	1.5	26437.680	1.5
895.3220	13.01	-1.79	135018.900	2.0	146185.000	2.0
895.3220	13.01	-1.04	135018.900	2.0	146185.000	3.0
895.3220	13.01	-2.97	135018.900	2.0	146185.000	1.0
895.3252	28.01	-2.37	119909.720	1.5	131075.780	1.5
895.3373	18.01	-1.08	200406.360	.5	211572.270	1.5
895.3535	26.00	-3.15	43210.011	2.0	54375.719	2.0
895.3557	18.01	-.82	203501.800	2.5	214667.480	2.5
895.3617	22.00	-3.46	26494.322	2.0	37659.927	3.0
895.3995	26.00	-3.59	43325.946	3.0	54491.080	3.0
895.4073	26.00	-4.70	47106.463	4.0	58271.500	5.0
895.4479	28.01	-3.04	100619.260	4.5	111783.790	3.5
895.4504	16.01	-.87	153282.800	2.5	164447.300	2.5
895.4618	22.00	-4.49	20209.444	2.0	31373.801	3.0
895.4665	28.00	-2.85	31441.665	2.0	42605.964	3.0
895.5033	28.01	-4.23	116167.760	1.5	127331.600	2.5
895.5114	16.01	-1.77	153153.660	.5	164317.400	1.5
895.5651	27.00	-3.19	43263.570	1.5	54426.640	1.5
895.5763	24.00	-2.13	31352.420	1.0	42515.350	2.0
895.5843	28.01	-3.26	123434.600	4.5	134597.430	5.5
895.5851	28.01	-3.89	116732.510	2.5	127895.330	3.5
895.5955	27.00	-4.34	41101.800	.5	52264.490	1.5
895.6057	22.00	-4.38	17540.205	3.0	28702.768	3.0
895.6214	26.00	-4.21	40404.492	1.0	51566.860	1.0
895.6397	10.01	-3.63	302307.750	2.5	313469.890	3.5
895.7247	14.03	.31	265417.950	.5	276579.030	1.5
895.7432	24.00	-4.15	31377.960	4.0	42538.810	3.0
895.7890	10.01	-1.07	279422.890	.5	290583.170	1.5
895.8002	24.00	-2.75	31355.210	2.0	42515.350	2.0
895.8363	27.00	-2.57	33945.900	2.5	45105.590	3.5
895.8765	10.01	-.25	291801.880	1.5	302961.070	1.5
WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
895.9166	29.01	-2.18	110365.980	2.0	121524.670	3.0
895.9214	28.01	-3.12	110021.920	4.5	121180.550	5.5
895.9831	26.00	-2.93	43108.899	4.0	54266.760	5.0
896.0113	26.02	-2.47	188142.640	2.0	199300.150	2.0
896.0121	8.01	-.93	254481.500	3.5	265639.000	3.5
896.0282	18.00	-3.14	115366.900	1.0	126524.200	0.0
896.0764	15.01	-1.56	130801.700	1.0	141958.400	1.0
896.2143	18.00	-2.77	107496.463	1.0	118651.447	1.0
896.2194	9.02	-1.67	430012.480	1.5	441167.400	.5
896.2252	26.00	-3.87	40894.972	2.0	52049.820	2.0
896.2331	10.00	-2.68	159534.620	1.0	170689.370	0.0
896.2392	26.00	-3.85	42911.897	5.0	54066.570	4.0
896.2820	23.00	-1.78	26004.220	2.5	37158.360	1.5
896.2829	28.01	-3.17	119909.720	1.5	131063.850	.5
896.2957	24.00	-4.22	35813.730	3.0	46967.700	2.0
896.3496	23.00	-1.48	26604.770	3.5	37758.070	4.5
896.3503	10.01	-.38	279218.660	2.5	290371.950	2.5
896.3667	9.00	-1.58	116987.394	3.5	128140.480	2.5
896.3849	26.02	-2.30	188109.580	3.0	199262.440	3.0
896.4018	27.00	-4.78	43199.650	2.5	54352.300	3.5
896.4404	25.01	-3.63	93868.500	1.0	105020.670	1.0
896.4412	18.00	-1.64	113716.610	3.0	124868.770	3.0
896.4412	18.00	-.83	113716.610	3.0	124868.770	4.0
896.4436	28.01	-3.53	101754.800	2.5	112906.930	1.5
896.4495	28.00	-1.01	45122.460	1.0	56274.516	2.0
896.5320	6.00	-4.66	78199.070	2.0	89350.100	2.0
896.5328	24.00	-4.06	31364.330	3.0	42515.350	2.0
896.5337	6.00	-2.26	78148.090	2.0	89299.100	3.0
896.5377	15.00	-2.31	67971.140	.5	79122.100	1.5
896.5425	18.00	-3.55	114641.040	2.0	125791.940	2.0
896.5586	23.00	-3.96	32767.880	1.5	43918.580	2.5
896.5706	23.00	-4.87	26352.590	2.5	37503.140	2.5
896.5715	6.00	-1.34	72610.720	2.0	83761.260	3.0
896.5947	28.00	-.97	33112.368	3.0	44262.619	2.0
896.6044	23.00	-1.08	26171.960	4.5	37322.090	3.5
896.6398	22.00	-.60	36132.210	4.0	47281.900	3.0
896.6583	25.00	-4.19	51638.170	2.5	62787.630	1.5
896.6663	17.00	-1.92	91069.020	.5	102218.380	1.5
896.6703	23.00	-4.15	20812.990	1.5	31962.300	.5
896.6904	18.01	-.56	190196.160	.5	201345.220	1.5
896.6953	29.01	-1.71	137212.700	1.0	148361.700	1.0
896.7037	26.00	-4.70	32873.623	4.0	44022.518	4.0
896.7290	18.00	-4.09	113716.610	3.0	124865.190	2.0
896.7411	18.00	-2.60	113716.610	3.0	124865.040	3.0
896.7474	20.00	-1.36	35896.889	4.0	47045.241	3.0
896.7540	26.00	-2.43	40421.890	4.0	51570.160	3.0
896.7610	90.00	-1.12	8711.012	0.0	19862.255	0.0
896.7727	14.00	-1.38	50499.838	2.0	61647.875	2.0
896.7990	20.02	.48	359156.830	1.0	370304.540	2.0
896.8142	14.00	-2.33	50499.838	2.0	61647.360	1.0
896.8159	28.00	-.33	43089.636	5.0	54237.136	4.0
896.8342	26.00	-3.22	36975.640	3.0	48122.913	3.0
896.8533	10.00	-2.28	158601.115	2.0	169748.150	1.0
896.8602	29.01	-4.72	136919.350	3.0	148066.300	2.0
896.8940	18.01	-.59	183675.570	3.5	194822.100	3.5
896.9270	9.02	-1.60	430012.480	1.5	441158.600	1.5
896.9865	28.01	-2.35	119796.980	2.5	130942.360	1.5
896.9946	16.00	-1.00	70163.700	1.0	81308.980	2.0
897.0445	27.00	-2.44	23207.760	1.5	34352.420	1.5
897.0783	24.00	-4.55	37883.340	2.0	49027.580	2.0
897.0831	10.01	-.37	290803.820	.5	301948.000	1.5
897.0928	26.01	-9.19	27314.930	3.5	38458.990	4.5
897.0951	18.00	-1.98	113716.610	3.0	124860.640	4.0
897.1088	17.00	-3.68	91089.450	3.5	102233.310	2.5
897.1183	16.00	-1.74	70165.237	2.0	81308.980	2.0
897.1183	16.00	-.83	70165.237	2.0	81308.980	3.0
897.1370	18.01	.16	191012.350	1.5	202155.860	2.5
897.1410	7.01	.18	209925.760	2.0	221069.220	3.0
897.1471	26.00	-3.57	40207.120	3.0	51350.505	4.0
897.1612	23.00	-2.18	9544.540	.5	20687.750	1.5
897.2304	29.01	-3.13	136919.350	3.0	148061.700	3.0
897.2723	23.00	-3.68	21646.390	3.5	32788.220	4.5
897.2836	6.00	-2.49	72610.720	2.0	83752.410	1.0
897.2876	27.00	-4.24	43847.980	3.5	54989.620	3.5
897.3545	18.00	-3.06	113716.610	3.0	124857.420	2.0
897.4092	28.01	-3.06	116191.470	2.5	127331.600	2.5
897.4189	27.00	-4.91	42796.670	1.5	53936.680	2.5
897.4215	22.00	-4.20	33114.412	2.0	44254.390	3.0
897.4487	29.01	-2.51	135958.460	1.0	147098.100	0.0
897.5106	26.00	-4.74	40231.312	2.0	51370.184	2.0
897.5283	17.00	-4.82	84648.100	2.5	95786.752	2.5
897.5310	26.00	-3.85	33412.706	3.0	44551.325	3.0
897.5410	26.00	-2.85	24118.815	4.0	35257.309	4.0
897.5535	18.01	-2.79	199446.540	.5	210584.880	1.5
897.5637	26.00	-4.65	43022.969	4.0	54161.182	3.0
897.6824	23.00	-3.68	31268.150	3.5	42404.890	3.5
897.6880	24.00	-1.33	24897.550	4.0	36034.220	3.0
897.6881	6.00	-1.48	72610.720	2.0	83747.390	2.0
897.7114	24.00	-3.22	36552.130	3.0	47688.510	4.0
897.7211	18.00	-2.57	114641.040	2.0	125777.300	1.0
897.7444	16.00	-1.74	70173.010	3.0	81308.980	3.0
897.7444	16.00	-.67	70173.010	3.0	81308.980	4.0
897.7444	16.00	-3.28	70173.010	3.0	81308.980	2.0
897.8003	26.00	-3.99	40404.492	1.0	51539.770	2.0
897.8215	26.00	-3.68	27543.000	1.0	38678.015	2.0
897.8477	23.00	-4.05	26480.280	3.5	37614.970	3.5
897.8480	26.00	-7.89	11976.239	4.0	23110.925	3.0
897.8517	23.00	-4.21	31228.980	2.5	42363.620	3.5
897.9037	26.00	-3.97	40534.180	3.0	51668.175	4.0
897.9340	22.01	-2.35	20891.880	3.5	32025.500	2.5
897.9388	15.00	-.42	66813.040	1.5	77946.600	2.5
897.9849	28.00	-1.83	42621.048	3.0	53754.036	2.0
897.9896	17.00	-1.71	91089.450	3.5	102222.380	3.5
898.0138	17.00	-.77	91089.450	3.5	102222.080	4.5
898.0566	23.00	-3.82	20830.200	.5	31962.300	.5
898.0695	28.01	-2.02	94729.250	2.5	105861.190	2.5
898.1106	28.01	-3.50	121180.550	5.5	132311.980	4.5
898.1186	15.00	-2.15	68088.270	1.5	79219.600	.5
898.1186	9.00	-1.13	117391.950	.5	128523.280	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
898.1251	7.01	-.67	209925.760	2.0	221057.010	2.0
898.1679	28.01	-4.07	120002.860	3.5	131133.580	2.5
898.1857	29.01	-2.69	139119.500	3.0	150250.000	2.0
898.2331	28.00	-2.44	32982.280	1.0	44112.192	1.0
898.2882	17.00	-3.12	91089.450	3.5	102218.680	2.5
898.3277	7.01	-1.91	209925.760	2.0	221054.500	3.0
898.3631	26.00	-4.45	43108.899	4.0	54237.200	4.0
898.3657	9.00	-1.48	117391.950	.5	128520.220	.5
898.4125	27.00	-4.65	43555.220	3.5	54682.910	4.5
898.4156	22.00	-3.34	20062.980	1.0	31190.631	2.0
898.4310	25.00	-3.69	51445.650	1.5	62573.110	1.5
898.4335	6.00	-3.89	78104.980	0.0	89232.410	1.0
898.4730	23.00	-4.44	15270.420	1.5	26397.360	.5
898.4916	26.00	-1.37	41130.620	1.0	52257.330	0.0
898.5199	26.02	-1.93	188013.400	4.0	199139.760	5.0
898.5707	28.01	-2.50	122847.600	3.5	133973.330	2.5
898.5758	22.00	-5.48	13981.750	1.0	25107.417	2.0
898.5764	28.01	-2.24	110573.360	2.5	121699.020	1.5
898.5780	16.01	-.83	153153.660	.5	164279.300	.5
898.6103	27.00	-4.61	42811.440	3.5	53936.680	2.5
898.6176	7.01	-.02	203258.980	2.0	214384.130	2.0
898.6182	18.00	-2.71	108722.668	0.0	119847.810	1.0
898.6512	26.00	-4.98	40894.972	2.0	52019.706	1.0
898.6612	18.01	.82	183675.570	3.5	194800.180	4.5
898.6677	10.01	-1.36	302307.750	2.5	313432.280	3.5
898.6701	15.00	-.80	65585.000	2.5	76709.500	3.5
898.7784	25.00	-3.79	51638.170	2.5	62761.330	2.5
898.7873	24.00	-1.93	35862.820	4.0	46985.870	5.0
898.8226	18.00	-2.43	112138.980	2.0	123261.593	2.0
898.8557	10.00	-1.32	148257.790	1.0	159379.993	0.0
898.8640	28.01	-3.29	120002.860	3.5	131124.960	3.5
898.8891	22.00	-.64	36065.750	3.0	47187.540	2.0
898.9028	12.00	-2.47	47841.119	0.0	58962.739	1.0
898.9095	22.00	-5.53	14105.680	3.0	25227.217	3.0
898.9295	24.00	-2.14	35934.020	6.0	47055.310	5.0
898.9424	22.00	-1.36	13981.750	1.0	25102.880	2.0
898.9473	25.00	-3.75	51305.410	2.5	62426.480	3.5
898.9496	22.00	-3.72	20062.980	1.0	31184.021	1.0
898.9861	27.00	-4.65	41041.430	3.5	52162.020	3.5
899.0192	25.02	-4.77	124823.900	4.5	135944.080	4.5
899.0299	26.00	-4.05	43137.472	3.0	54257.520	2.0
899.0427	26.01	-2.82	50212.930	2.5	61332.820	1.5
899.0499	26.02	-2.52	188142.640	2.0	199262.440	3.0
899.0961	10.01	-1.79	281332.550	.5	292451.780	1.5
899.1292	28.01	-3.54	115739.150	4.5	126857.970	5.5
899.1407	22.00	-4.64	20795.599	5.0	31914.277	5.0
899.1693	12.00	-2.00	47844.414	1.0	58962.739	1.0
899.1769	26.02	-4.15	114325.350	5.0	125443.580	4.0
899.1890	28.01	-4.70	93528.440	3.5	104646.520	3.5
899.1983	28.00	-2.63	43654.974	3.0	54772.940	3.0
899.2295	23.01	-3.75	62176.240	4.0	73293.820	5.0
899.2651	25.00	-4.24	51515.630	2.5	62632.770	3.5
899.2715	18.00	-3.45	113020.390	3.0	124137.450	2.0
899.2844	18.00	-2.36	113020.390	3.0	124137.290	3.0
899.3345	14.00	-2.67	50189.389	2.0	61305.670	1.0
899.3385	22.00	-4.09	29971.078	4.0	41087.310	3.0
899.3532	27.00	-4.25	43398.620	3.5	54514.670	3.5
899.3565	18.00	-3.43	112138.980	2.0	123254.990	1.0
899.3832	16.01	-.82	153201.720	1.5	164317.400	1.5
899.3840	6.00	-3.40	78116.740	1.0	89232.410	1.0
899.4099	18.00	-2.21	113020.390	3.0	124135.740	3.0
899.4099	18.00	-.92	113020.390	3.0	124135.740	4.0
899.4139	24.00	-2.86	35572.940	2.0	46688.240	3.0
899.4358	27.00	-4.24	41041.430	3.5	52156.460	4.5
899.4662	26.00	-4.09	26406.490	1.0	37521.144	2.0
899.4674	7.01	-1.32	210239.830	1.0	221354.470	2.0
899.4803	6.00	-3.79	77679.820	2.0	88794.300	2.0
899.4894	26.00	-4.50	33946.920	2.0	45061.287	3.0
899.4908	29.01	-3.93	136919.350	3.0	148033.700	4.0
899.5030	8.02	-.41	356838.000	1.0	367952.200	1.0
899.5426	21.00	-3.51	20237.100	4.5	31350.810	4.5
899.5491	23.00	-5.06	13801.530	1.5	24915.160	1.5
899.5798	28.01	-4.62	121111.900	.5	132225.150	1.5
899.5863	18.01	.56	188766.150	2.5	199879.320	3.5
899.5871	28.01	-1.91	93390.060	2.5	104503.220	2.5
899.6470	28.01	-2.73	120002.860	3.5	131115.280	4.5
899.6535	10.01	-2.85	302307.750	2.5	313420.090	2.5
899.6613	14.00	-2.40	49188.617	2.0	60300.860	2.0
899.6693	20.00	-2.31	36731.615	1.0	47843.760	0.0
899.6932	23.00	-6.87	14910.040	3.5	26021.890	3.5
899.6972	7.01	-.76	210239.830	1.0	221351.630	1.0
899.7153	12.00	-1.77	47851.162	2.0	58962.739	1.0
899.7385	10.01	-4.29	302307.750	2.5	313419.040	1.5
899.7596	6.00	-2.81	77679.820	2.0	88790.850	1.0
899.7798	24.00	-4.35	36577.730	4.0	47688.510	4.0
899.7806	18.01	.16	189040.870	1.5	200151.640	1.5
899.7927	28.00	-4.16	43464.019	1.0	54574.640	1.0
899.8130	28.01	-2.87	100010.170	.5	111120.540	1.5
899.8478	28.01	-3.19	122812.970	3.5	133922.910	4.5
899.9167	23.00	-1.65	26505.880	2.5	37614.970	3.5
899.9394	28.01	-1.29	94729.250	2.5	105838.060	3.5
899.9564	26.00	-1.42	22838.320	2.0	33946.920	2.0
900.0131	29.01	-2.59	139142.100	2.0	150250.000	2.0
900.0131	15.00	-1.57	66834.500	1.5	77942.400	1.5
900.0890	26.00	-3.44	42859.756	2.0	53966.720	2.0
900.1160	26.01	-4.84	72619.610	2.5	83726.240	3.5
900.1369	28.00	-1.05	43654.974	3.0	54761.346	4.0
900.1444	17.00	-2.10	91127.030	2.5	102233.310	2.5
900.1752	18.01	-1.28	184191.710	.5	195297.610	1.5
900.1792	24.00	-4.10	39158.630	4.0	50264.480	3.0
900.1792	29.01	-3.54	117747.450	3.0	128853.300	2.0
900.1825	24.00	-4.58	25106.340	3.0	36212.150	4.0
900.1898	10.01	-2.57	291202.030	3.5	302307.750	2.5
900.2149	24.00	-4.99	35572.940	2.0	46678.350	1.0
900.2157	23.00	-1.35	26122.040	3.5	37227.440	2.5
900.2611	26.01	-4.43	87340.400	5.5	98445.240	4.5
900.2960	24.00	-4.35	31049.330	6.0	42153.740	5.0
900.3008	23.00	-2.53	15078.250	.5	26182.600	.5
900.3081	23.00	-5.37	13810.900	.5	24915.160	1.5
900.3195	24.00	-3.49	35572.940	2.0	46677.060	2.0
900.3454	8.01	-.52	254895.200	2.5	265999.000	3.5
900.3560	28.01	-1.73	119796.980	2.5	130900.650	2.5
900.3592	26.02	-4.98	114339.950	4.0	125443.580	4.0
900.3990	26.02	-2.59	188109.580	3.0	199212.720	4.0
900.4730	72.00	-1.32	13953.751	0.0	25059.026	0.0
900.4784	25.00	-4.04	51530.610	3.5	62632.770	3.5
900.4921	12.00	-2.70	49346.729	1.0	60448.720	0.0
900.5103	22.00	-2.67	37622.573	3.0	48724.340	2.0
900.5119	28.00	-1.35	44475.158	2.0	55576.905	3.0
900.5157	8.01	-4.31	248185.300	2.5	259287.000	1.5
900.5344	24.00	-4.89	35884.400	5.0	46985.870	5.0
900.5482	13.01	-1.07	138811.900	2.0	149913.200	2.0
900.5482	13.01	-.33	138811.900	1.0	149913.200	2.0
900.5482	13.01	-.53	138811.900	2.0	149913.200	3.0
900.5482	13.01	-2.61	138811.900	3.0	149913.200	2.0
900.5482	13.01	-1.44	138811.900	3.0	149913.200	3.0
900.5482	13.01	-0.00	138811.900	3.0	149913.200	4.0
900.5624	22.00	-4.68	29986.185	3.0	41087.310	3.0
900.5807	13.01	-1.81	133679.300	3.0	144780.200	2.0
900.5987	28.00	-4.28	47424.830	1.0	58525.507	1.0
900.6034	28.01	-4.25	118379.110	2.5	129479.730	1.5
900.6184	9.00	-.68	116987.394	3.5	128087.829	2.5
900.6277	28.01	-4.27	120002.860	3.5	131103.180	2.5
900.6283	28.00	-1.30	42653.723	2.0	53754.036	2.0
900.6294	8.01	-2.63	254590.700	4.5	265691.000	3.5
900.6699	13.01	-2.06	135009.000	0.0	146108.800	1.0
900.6757	26.00	-1.82	43137.472	3.0	54237.200	4.0
900.7276	26.00	-4.62	33412.706	3.0	44511.795	2.0
900.7413	27.00	-3.84	43847.980	3.5	54946.900	2.5
900.7454	24.01	-4.40	54444.190	3.5	65543.060	3.5
900.7651	22.00	-4.88	17540.205	3.0	28638.832	2.0
900.7875	18.01	-1.95	172816.210	.5	183914.560	.5
900.7884	16.01	-1.59	153153.660	.5	164252.000	1.5
900.7910	14.00	-1.76	50499.838	2.0	61598.145	2.0
900.8388	28.00	-1.98	42656.317	1.0	53754.036	2.0
900.8460	18.01	.64	190511.190	2.5	201608.820	3.5
900.8512	14.00	-.53	50499.838	2.0	61597.404	3.0
900.8809	23.00	-6.32	13801.530	1.5	24898.730	2.5
900.9215	13.01	-2.06	135012.100	1.0	146108.800	1.0
900.9913	24.00	.06	26787.500	3.0	37883.340	2.0
900.9940	22.00	-4.31	37743.933	3.0	48839.740	3.0
900.9946	23.00	-2.67	26344.940	4.5	37440.740	4.5
901.0100	25.01	-2.56	62587.500	3.0	73683.110	4.0
901.0155	22.00	-2.47	26564.385	3.0	37659.927	3.0
901.0312	17.00	-1.34	91127.030	2.5	102222.380	3.5
901.0425	7.01	-.64	203162.480	0.0	214257.690	1.0
901.0466	28.01	-4.43	118379.110	2.5	129474.270	3.5
901.1001	10.01	-.34	306687.290	2.5	317781.790	1.5
901.1229	28.01	-3.27	97273.830	2.5	108368.050	2.5
901.1261	23.00	-5.52	14910.040	3.5	26004.220	2.5
901.1302	10.01	-1.21	306687.290	2.5	317781.420	2.5
901.1611	10.01	-.02	306687.670	3.5	317781.420	2.5
901.1724	24.00	-3.95	24940.610	2.0	36034.220	3.0
901.1890	26.00	-4.36	44285.436	2.0	55378.842	2.0
901.2053	26.00	-.48	40257.300	5.0	51350.505	4.0
901.2058	28.01	-2.67	105981.500	4.5	117074.700	3.5
901.2101	26.00	-3.30	46720.824	4.0	57813.970	3.0
901.2228	8.02	-1.33	366594.010	2.0	377687.000	2.0
901.2382	8.01	-.77	254895.200	1.5	265988.000	2.5
901.2382	8.01	-1.30	254895.200	2.5	265988.000	2.5
901.2512	28.01	-3.47	123434.600	4.5	134527.240	3.5
901.2521	28.01	-3.84	104646.520	3.5	115739.150	4.5
901.2951	9.02	-3.77	470269.070	.5	481361.170	1.5
901.3317	17.00	-2.32	91127.030	2.5	102218.680	2.5
901.3561	17.00	-3.24	91127.030	2.5	102218.380	1.5
901.3601	24.00	-2.03	35813.730	3.0	46905.030	4.0
901.3976	9.02	-1.95	442278.930	2.5	453369.770	1.5
901.3989	26.00	-3.93	18378.187	2.0	29469.010	2.0
901.4300	28.01	-3.68	120002.860	3.5	131093.300	4.5
901.4739	13.01	-1.36	135018.900	2.0	146108.800	1.0
901.4820	8.01	-.65	254895.200	2.5	265985.000	3.5
901.4926	28.01	-3.25	122080.250	2.5	133169.920	3.5
901.4926	18.01	-.60	184191.710	.5	195281.380	.5
901.5164	9.00	-2.24	117622.923	2.5	128712.300	1.5
901.5203	23.01	-4.63	62133.390	3.0	73222.720	4.0
901.5406	29.01	-4.06	125247.800	2.0	136336.880	1.0
901.5503	27.00	-1.95	43425.710	2.5	54514.670	3.5
901.5536	23.00	-4.16	21603.170	4.5	32692.090	3.5
901.5658	21.00	-2.34	24656.800	1.5	35745.570	2.5
901.5723	10.01	-2.18	291801.880	1.5	302890.570	2.5
901.5934	7.01	-.89	210266.040	2.0	221354.470	2.0
901.5983	12.00	-2.58	49346.729	1.0	60435.099	2.0
901.6186	6.00	-3.95	78293.490	1.0	89381.610	0.0
901.6967	6.00	-2.57	77679.820	2.0	88766.980	1.0
901.7048	24.00	-.08	26796.280	2.0	37883.340	2.0
901.7166	26.00	-3.95	46727.055	2.0	57813.970	3.0
901.7585	24.00	-4.51	31352.420	1.0	42438.820	2.0
901.7594	18.01	-1.53	148620.070	1.5	159706.460	.5
901.7794	17.00	-2.91	85917.937	.5	97004.081	1.5
901.7870	10.01	-3.18	280947.100	1.5	292033.150	2.5
901.8112	20.00	-2.49	37298.287	2.0	48384.039	3.0
901.8138	14.03	.01	265417.950	.5	276503.670	.5
901.8182	26.00	-3.88	46888.494	2.0	57974.160	2.0
901.8203	18.01	.45	183797.360	2.5	194883.000	3.5
901.8244	7.01	-1.22	210266.040	2.0	221351.630	1.0
901.8391	27.00	-4.58	44183.340	4.5	55268.750	3.5
901.9136	20.00	-2.70	37298.287	2.0	48382.781	3.0
901.9202	20.00	-3.65	37298.287	2.0	48382.700	2.0
901.9277	6.00	-3.02	78148.090	2.0	89232.410	1.0
901.9774	26.00	-1.55	41130.620	1.0	52214.330	1.0
901.9855	24.00	-3.75	31355.210	2.0	42438.820	2.0
901.9871	6.00	-4.22	78215.510	3.0	89299.100	3.0
902.0075	28.01	-1.75	122086.580	3.5	133169.920	3.5
902.0212	22.00	-2.33	28702.768	3.0	39785.940	4.0
902.0287	27.00	-4.76	43199.650	2.5	54282.730	2.5
902.0343	24.00	-4.06	38537.680	5.0	49620.690	4.0
902.0694	7.00	-.55	93581.520	.5	104664.100	1.5
902.0767	24.00	-2.57	37205.880	3.0	48288.370	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
902.0954	24.01	-3.22	73411.940	1.5	84494.200	2.5
902.1027	23.00	-2.22	15270.420	1.5	26352.590	2.5
902.1370	18.00	-4.54	112138.980	2.0	123220.730	2.0
902.1591	14.00	-.95	50566.397	1.0	61647.875	2.0
902.1646	24.00	-.30	26801.930	1.0	37883.340	2.0
902.1668	22.00	-2.90	18825.890	1.0	29907.273	2.0
902.1898	27.00	-4.73	44201.920	2.5	55283.020	2.5
902.2009	14.00	-1.18	50566.397	1.0	61647.360	1.0
902.2321	18.01	-4.32	179931.770	1.5	191012.350	1.5
902.2704	23.00	-1.77	15264.830	5.5	26344.940	4.5
902.2713	29.01	-2.61	135135.600	1.0	146215.700	1.0
902.2973	27.00	-4.89	41041.430	3.5	52121.210	4.5
902.3652	22.00	-5.48	14028.470	2.0	25107.417	2.0
902.4056	27.00	-3.88	43398.620	3.5	54477.070	3.5
902.4319	26.00	-3.67	39625.784	4.0	50703.912	5.0
902.4765	16.01	-.68	153201.720	1.5	164279.300	.5
902.4870	28.00	-2.20	43654.974	3.0	54732.425	2.0
902.4969	28.01	-3.15	120044.950	4.5	131122.280	5.5
902.5050	23.00	-3.24	32988.820	3.5	44066.050	3.5
902.5309	26.00	-4.27	37046.000	4.0	48122.913	3.0
902.5327	24.00	-2.41	37233.500	5.0	48310.390	5.0
902.5474	9.00	.12	116987.394	3.5	128064.103	3.5
902.5726	15.02	-1.48	202906.400	2.5	213982.800	2.5
902.5726	15.02	-.18	202906.400	3.5	213982.800	2.5
902.5726	15.02	-.34	202906.400	2.5	213982.800	1.5
902.5800	28.01	-4.69	121925.160	.5	133001.470	.5
902.6329	15.00	-2.88	66813.040	1.5	77888.700	1.5
902.6370	26.01	-4.62	72650.630	4.5	83726.240	3.5
902.6378	26.00	-4.23	40491.260	0.0	51566.860	1.0
902.6894	9.00	-3.69	117622.923	2.5	128697.890	2.5
902.7042	22.00	-2.74	18911.399	2.0	29986.185	3.0
902.7206	20.00	-4.60	36731.615	1.0	47806.200	1.0
902.7283	24.00	-3.57	31364.330	3.0	42438.820	2.0
902.7348	22.00	-1.15	14028.470	2.0	25102.880	2.0
902.7357	15.00	-1.02	65585.000	2.5	76659.400	2.5
902.7454	28.01	-2.87	116145.690	3.5	127219.970	3.5
902.7732	9.02	-4.08	470269.070	.5	481343.010	.5
902.7903	22.01	-3.14	20951.770	2.5	32025.500	2.5
902.8400	22.00	-4.50	35577.140	2.0	46650.260	3.0
902.8832	23.00	-5.05	14949.300	4.5	26021.890	3.5
902.8922	7.00	-.24	93581.520	.5	104654.000	.5
902.8987	29.01	-1.71	139710.200	2.0	150782.600	2.0
902.9026	26.00	-3.17	46901.808	1.0	57974.160	2.0
902.9224	27.00	-3.81	43295.320	4.5	54367.430	5.5
902.9444	23.00	-3.60	32846.740	2.5	43918.580	2.5
903.0064	28.01	-4.78	121240.900	3.5	132311.980	4.5
903.0129	23.00	-5.27	10892.500	3.5	21963.500	3.5
903.0431	29.01	-4.86	137034.970	3.0	148105.600	4.0
903.0675	28.01	-4.34	120044.950	4.5	131115.280	4.5
903.0721	26.00	-3.92	22946.810	1.0	34017.084	1.0
903.0896	22.00	-2.83	37654.770	2.0	48724.830	1.0
903.1295	22.00	-3.13	37654.770	2.0	48724.340	2.0
903.1345	18.01	-1.18	189040.870	1.5	200110.380	.5
903.1426	25.00	-3.43	51718.220	1.5	62787.630	1.5
903.1491	56.01	-1.19	61636.000	0.0	72708.369	0.0
903.1614	24.00	-4.17	36552.130	3.0	47621.310	3.0
903.1765	26.00	-3.58	46744.975	3.0	57813.970	3.0
903.1810	25.00	-4.23	51445.650	1.5	62514.590	2.5
903.2038	7.01	-.43	203189.030	1.0	214257.690	1.0
903.2381	25.00	-2.72	52015.000	1.5	63083.240	1.5
903.2389	29.01	-2.30	137034.970	3.0	148103.200	3.0
903.3003	26.00	-4.95	47452.702	4.0	58520.180	4.0
903.3131	20.02	-.08	360207.160	2.0	371274.480	2.0
903.3515	18.00	-3.44	112138.980	2.0	123205.830	3.0
903.3532	27.00	-2.28	44201.920	2.5	55268.750	3.5
903.3858	10.01	-3.21	292451.780	1.5	303518.210	1.5
903.4029	24.00	-2.69	37244.170	4.0	48310.390	5.0
903.4372	8.01	-.79	254895.200	1.5	265961.000	2.5
903.4372	8.01	-1.33	254895.200	2.5	265961.000	2.5
903.4614	26.00	-3.35	42859.756	2.0	53925.260	1.0
903.4650	23.00	-1.89	26437.680	1.5	37503.140	2.5
903.4912	8.00	-4.77	102662.026	2.0	113727.165	2.0
903.5279	9.02	-3.32	442278.930	2.5	453343.620	2.5
903.5787	16.00	-.68	64891.632	2.0	75955.700	3.0
903.5834	24.00	-1.48	24833.860	3.0	35897.870	2.0
903.5916	18.01	-.06	183797.360	2.5	194861.270	2.5
903.5997	28.01	-4.31	111783.790	3.5	122847.600	3.5
903.6024	26.00	-4.22	37157.546	2.0	48221.323	1.0
903.6059	28.00	-4.07	46522.965	2.0	57586.700	2.0
903.6063	28.01	-4.43	105668.780	2.5	116732.510	2.5
903.6205	16.00	-.96	64888.014	1.0	75951.570	2.0
903.6619	22.00	-2.74	37852.021	1.0	48915.070	2.0
903.6621	16.00	-1.43	64888.014	1.0	75951.060	1.0
903.6700	26.00	-2.49	40231.312	2.0	51294.262	3.0
903.6855	24.00	-3.10	36558.550	2.0	47621.310	3.0
903.6953	14.00	-4.17	50499.838	2.0	61562.477	3.0
903.6961	28.01	-4.83	122790.410	4.5	133853.040	4.5
903.7010	10.00	-2.00	159534.620	1.0	170597.190	2.0
903.7566	23.00	-2.17	9544.540	.5	20606.430	.5
903.7868	27.00	-2.57	21780.470	5.5	32841.990	4.5
903.8170	29.01	-2.47	137044.450	4.0	148105.600	4.0
903.8187	27.00	-3.44	43295.320	4.5	54356.450	4.5
903.8424	26.01	-4.84	54870.620	2.5	65931.460	3.5
903.8600	16.00	-1.31	64890.436	0.0	75951.060	1.0
903.8983	17.00	.45	84120.263	2.5	95180.419	3.5
903.9161	16.00	-1.43	64891.632	2.0	75951.570	2.0
903.9274	17.00	-3.41	91173.510	1.5	102233.310	2.5
903.9331	18.01	-3.48	199525.150	1.5	210584.880	1.5
903.9578	16.00	-2.61	64891.632	2.0	75951.060	1.0
903.9611	8.00	-3.86	102662.026	2.0	113721.413	3.0
903.9846	27.00	-2.04	43199.650	2.5	54258.750	2.5
904.0132	29.01	-4.03	137044.450	4.0	148103.200	3.0
904.0181	23.00	-3.06	25930.510	1.5	36989.200	2.5
904.0295	24.00	-3.23	35618.510	1.0	46677.060	2.0
904.0802	24.01	-2.90	73436.270	2.5	84494.200	2.5
904.1554	27.00	-1.98	43847.980	3.5	54904.990	2.5
904.1579	27.00	-3.37	43295.320	4.5	54352.300	3.5
904.1653	29.01	-3.58	133826.200	2.0	144883.090	2.0
904.1808	13.01	-.23	139786.800	2.0	150343.500	3.0
904.1882	6.00	-4.54	78293.490	1.0	89350.100	2.0
904.2045	7.01	-.83	210239.830	1.0	221296.240	2.0
904.2091	9.00	.26	117164.006	2.5	128220.360	3.5
904.2141	26.00	-4.04	42784.387	6.0	53840.680	6.0
904.2525	9.00	-1.91	117164.006	2.5	128219.830	1.5
904.2970	9.02	-3.06	421005.360	.5	432060.640	1.5
904.3297	28.01	-4.93	111120.540	1.5	122175.420	2.5
904.3305	24.00	-4.90	37233.500	5.0	48288.370	4.0
904.3452	23.00	-4.01	27187.770	2.5	38242.460	3.5
904.3771	13.01	-.41	138811.900	2.0	149866.200	3.0
904.3771	13.01	-1.31	138811.900	3.0	149866.200	3.0
904.3822	14.00	-1.76	51612.012	0.0	62666.250	1.0
904.3853	15.00	-2.41	66834.500	1.5	77888.700	1.5
904.4196	28.00	-2.70	50789.500	4.0	61843.280	5.0
904.4221	23.00	-4.33	26021.890	3.5	37075.640	4.5
904.4368	27.00	-4.85	41041.430	3.5	52095.000	3.5
904.4393	28.01	-4.97	111783.790	3.5	122837.330	4.5
904.4430	26.00	-4.05	43325.946	3.0	54379.440	3.0
904.4453	26.00	-3.77	43079.013	1.0	54132.480	1.0
904.4737	23.00	-1.54	25930.510	1.5	36983.630	1.5
904.4867	22.00	-4.74	31805.940	2.0	42858.900	3.0
904.5006	7.01	-1.47	210301.680	3.0	221354.470	2.0
904.5019	17.00	-2.24	84648.100	2.5	95700.874	3.5
904.5260	28.01	-3.86	98969.440	5.5	110021.920	4.5
904.5383	24.00	-3.04	46298.320	1.0	57350.650	2.0
904.5432	17.00	-.34	74865.667	.5	85917.937	.5
904.5481	27.00	-2.97	41918.410	3.5	52970.620	2.5
904.5776	24.00	-2.55	35934.020	6.0	46985.870	5.0
904.5831	22.00	-3.50	26772.965	5.0	37824.748	4.0
904.5878	7.00	.42	99663.427	2.5	110715.152	3.5
904.6177	27.00	-3.99	43425.710	2.5	54477.070	3.5
904.6644	23.00	-2.07	9636.960	1.5	20687.750	1.5
904.6947	10.00	-2.39	159534.620	1.0	170585.040	1.0
904.7061	16.01	-1.17	153201.720	1.5	164252.000	1.5
904.7146	28.00	-2.50	42653.723	2.0	53703.899	1.0
904.7339	25.00	-4.05	51718.220	1.5	62768.160	.5
904.7978	6.00	-2.55	78249.940	4.0	89299.100	3.0
904.8085	26.00	-3.26	32873.623	4.0	43922.652	3.0
904.8445	27.00	-3.94	43847.980	3.5	54896.570	3.5
904.8641	28.01	-4.17	120044.950	4.5	131093.300	4.5
904.8682	8.01	-2.39	254590.700	4.5	265639.000	3.5
904.9069	10.00	-2.43	158795.992	1.0	169843.820	2.0
904.9215	22.00	-3.24	37976.780	2.0	49024.430	3.0
904.9271	28.00	-1.53	42656.317	1.0	53703.899	1.0
904.9330	26.00	-2.42	43210.011	2.0	54257.520	2.0
904.9492	7.00	-.88	99663.427	2.5	110710.739	2.5
904.9698	10.01	-1.11	279324.890	1.5	290371.950	2.5
904.9755	27.00	-4.25	43398.620	3.5	54445.610	2.5
904.9889	7.00	.27	99663.912	1.5	110710.739	2.5
905.0108	17.00	-.82	90487.870	3.5	101534.430	4.5
905.0173	23.01	-4.60	62176.240	4.0	73222.720	4.0
905.0411	28.01	-1.52	109269.830	1.5	120316.020	.5
905.0468	23.00	-3.90	31317.500	4.5	42363.620	3.5
905.0583	16.01	-.17	153413.520	3.5	164459.500	2.5
905.0657	26.02	-4.53	105929.160	3.0	116975.050	2.0
905.0772	10.01	-.70	291202.030	3.5	302247.780	3.5
905.0812	23.00	-2.20	21646.390	3.5	32692.090	3.5
905.0829	25.01	-3.56	93868.500	1.0	104914.180	0.0
905.1239	18.01	-.20	183985.940	1.5	195031.120	2.5
905.1247	17.00	-2.94	91173.510	1.5	102218.680	2.5
905.1271	17.00	-2.58	90487.870	3.5	101533.010	2.5
905.1451	14.00	-1.05	50602.440	0.0	61647.360	1.0
905.1486	28.00	-1.20	43654.974	3.0	54699.852	3.0
905.1492	17.00	-3.95	91173.510	1.5	102218.380	1.5
905.1754	10.01	-.96	302425.870	1.5	313470.420	2.5
905.1811	22.00	-2.61	26494.322	2.0	37538.804	2.0
905.2042	24.00	-2.53	37244.170	4.0	48288.370	4.0
905.2394	10.00	-2.69	159534.620	1.0	170578.390	1.0
905.2517	10.01	-1.60	280989.530	1.5	292033.150	2.5
905.2533	26.00	-2.39	43022.969	4.0	54066.570	4.0
905.2533	8.01	-2.69	265220.300	1.5	276263.900	.5
905.2533	8.01	-2.23	265220.300	1.5	276263.900	1.5
905.2650	10.00	-2.30	158795.992	1.0	169839.450	1.0
905.2935	25.00	-3.84	51718.220	1.5	62761.330	2.5
905.3050	28.00	-2.97	50789.500	4.0	61832.470	4.0
905.3460	6.00	-3.60	78307.630	2.0	89350.100	2.0
905.3673	24.00	-3.76	35862.820	4.0	46905.030	4.0
905.4255	29.01	-1.66	139741.100	3.0	150782.600	2.0
905.4395	6.00	-2.51	78340.280	1.0	89381.610	0.0
905.5635	26.00	-3.94	40421.890	4.0	51461.707	4.0
905.5666	27.00	-2.73	43242.950	2.5	54282.730	2.5
905.6412	24.00	-2.20	35807.900	2.0	46846.770	3.0
905.6560	10.01	-1.75	292033.150	2.5	303071.840	2.5
905.7113	22.00	-4.93	36000.144	4.0	47038.160	3.0
905.7151	18.00	-1.28	113020.390	3.0	124058.360	3.0
905.7151	18.00	-1.63	113020.390	3.0	124058.360	4.0
905.7405	24.00	-3.81	35640.690	0.0	46678.350	1.0
905.7494	18.00	-2.57	108722.668	0.0	119760.220	1.0
905.7619	10.01	.47	291801.880	1.5	302839.280	2.5
905.7932	22.00	-3.63	18818.230	0.0	29855.248	1.0
905.7985	26.00	-4.85	24574.655	4.0	35611.608	3.0
905.8412	14.00	-1.77	48020.074	1.0	59056.508	1.0
905.8415	17.00	-3.22	90487.870	3.5	101524.300	2.5
905.8514	17.00	-4.62	90487.870	3.5	101524.180	3.5
905.8775	26.00	-3.03	42532.729	3.0	53568.720	2.0
905.9260	21.00	-4.22	20239.920	3.5	31275.320	3.5
905.9301	24.00	-4.92	38537.680	5.0	49573.030	4.0
905.9917	16.01	-.32	153282.800	2.5	164317.400	1.5
906.0442	25.00	-2.94	51100.490	4.5	62134.450	5.5
906.0475	7.00	-.06	93581.520	.5	104615.440	1.5
906.0500	17.00	-2.06	90487.870	3.5	101521.760	3.5
906.0549	15.00	-2.03	68088.270	1.5	79122.100	1.5
906.0590	16.01	-2.34	153413.520	3.5	164447.300	2.5
906.0648	18.00	-3.52	113020.390	3.0	124054.100	3.0
906.0746	18.01	.72	203151.200	2.5	214184.790	3.5
906.0848	17.00	-1.81	90487.870	3.5	101521.336	4.5
906.0886	28.01	-3.33	120189.550	.5	131222.970	1.5
906.0935	10.01	-2.59	280768.520	.5	291801.880	1.5
906.0952	6.00	-3.85	78199.070	2.0	89232.410	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
906.1141	18.00	-2.46	112138.980	2.0	123172.090	1.0
906.1198	24.00	-3.66	35813.730	3.0	46846.770	3.0
906.1239	28.01	-3.87	118809.340	1.5	129842.330	2.5
906.1255	25.00	-3.45	57305.620	3.5	68338.590	3.5
906.1338	23.00	-4.44	15571.900	2.5	26604.770	3.5
906.1395	8.01	-.72	254895.200	1.5	265928.000	1.5
906.1395	8.01	-1.92	254895.200	2.5	265928.000	1.5
906.1436	6.00	-.28	60352.630	1.0	71385.380	2.0
906.1477	29.01	-2.67	139710.200	2.0	150742.900	3.0
906.2176	6.00	-3.31	78318.250	3.0	89350.100	2.0
906.2224	26.00	-1.36	41018.029	2.0	52049.820	2.0
906.2260	14.00	-1.27	50566.397	1.0	61598.145	2.0
906.2291	9.02	-1.10	430374.750	2.5	441406.460	3.5
906.2487	6.00	-.34	60333.430	0.0	71364.900	1.0
906.2537	28.01	-3.24	122821.630	5.5	133853.040	4.5
906.2602	29.01	-3.29	137034.970	3.0	148066.300	2.0
906.2660	18.00	-2.41	113020.390	3.0	124051.650	2.0
906.2832	18.00	-2.21	113020.390	3.0	124051.440	3.0
906.3219	24.01	-2.39	54678.950	4.5	65709.530	5.5
906.3317	28.01	-3.25	121699.020	1.5	132729.480	2.5
906.3531	7.01	-.48	210266.040	2.0	221296.240	2.0
906.3562	9.00	-3.56	117308.558	1.5	128338.720	.5
906.3761	10.01	-2.41	291801.880	1.5	302831.800	.5
906.3868	28.01	-3.26	120203.490	2.5	131233.280	3.5
906.4147	29.01	-4.41	137073.750	2.0	148103.200	3.0
906.4223	22.00	-3.52	18825.890	1.0	29855.248	1.0
906.4344	28.01	-4.29	122140.710	4.5	133169.920	3.5
906.4501	10.01	.24	280173.010	4.5	291202.030	3.5
906.4805	23.00	-7.75	13801.530	1.5	24830.180	1.5
906.4887	28.01	-3.89	105439.850	1.5	116468.400	1.5
906.4928	28.01	-2.78	116191.470	2.5	127219.970	3.5
906.6194	26.01	-4.21	54904.500	3.5	65931.460	3.5
906.6605	28.01	-3.44	103025.580	2.5	114052.040	3.5
906.6761	7.01	-1.18	210266.040	2.0	221292.310	3.0
906.6778	18.00	-.48	113020.390	3.0	124046.640	4.0
906.7082	22.00	-3.12	29818.310	3.0	40844.190	3.0
906.7140	23.00	-2.25	26397.360	.5	37423.170	1.5
906.7156	18.01	-3.13	185093.230	4.5	196119.020	3.5
906.7789	29.01	-1.79	108014.660	3.0	119039.680	2.0
906.7806	13.01	-1.87	133914.100	2.0	144939.100	1.0
906.8020	18.01	.09	183797.360	2.5	194822.100	3.5
906.8250	24.00	-4.66	31055.350	5.0	42079.810	4.0
906.8258	28.01	-1.45	111120.540	1.5	122144.990	2.5
906.8266	24.00	-2.12	35398.020	4.0	46422.460	4.0
906.8332	17.00	-.84	84120.263	2.5	95144.623	2.5
906.8382	13.01	-.36	139286.800	2.0	150311.100	3.0
906.8661	28.00	-3.32	47424.830	1.0	58448.790	0.0
906.8760	28.01	-2.35	120199.180	1.5	131223.020	2.5
906.8801	28.01	-2.75	120199.180	1.5	131222.970	1.5
906.8867	26.00	-2.83	43137.472	3.0	54161.182	3.0
906.8958	15.03	.35	309102.400	1.0	320126.000	2.0
906.9147	15.00	-2.09	56090.450	1.5	67113.820	2.5
906.9509	7.01	-.63	203189.030	1.0	214211.960	0.0
906.9656	17.00	.29	84121.872	1.5	95144.623	2.5
907.0348	26.00	-1.70	41018.029	2.0	52039.939	1.0
907.0445	26.00	-3.30	34039.495	4.0	45061.287	3.0
907.0718	10.01	-2.11	280473.580	1.5	291495.040	2.5
907.0784	23.00	-3.31	26004.220	2.5	37025.600	3.5
907.0800	14.00	-4.12	53362.240	3.0	64383.600	4.0
907.1064	10.01	-.55	280947.100	1.5	291968.140	.5
907.1105	18.00	-3.35	113020.390	3.0	124041.380	2.0
907.1294	15.00	-2.51	66813.040	1.5	77833.800	1.5
907.1401	24.00	-2.96	35884.400	5.0	46905.030	4.0
907.1492	23.00	-5.29	11100.650	4.5	22121.170	4.5
907.1573	26.00	-9.10	11976.239	4.0	22996.661	4.0
907.1632	27.00	-2.94	43295.320	4.5	54315.670	5.5
907.1648	25.00	-3.00	51552.780	.5	62573.110	1.5
907.2002	27.00	-4.74	43425.710	2.5	54445.610	2.5
907.2118	23.00	-2.13	26738.310	4.5	37758.070	4.5
907.2307	28.01	-2.62	120203.490	2.5	131223.020	2.5
907.2348	28.01	-3.65	120203.490	2.5	131222.970	1.5
907.2513	23.00	-6.86	13810.900	.5	24830.180	1.5
907.2529	28.01	-2.53	116312.340	1.5	127331.600	2.5
907.2612	27.00	-3.37	43263.570	1.5	54282.730	2.5
907.2859	18.01	-1.75	192712.000	1.5	203730.860	1.5
907.3042	10.00	-2.20	158795.992	1.0	169814.630	2.0
907.3169	17.00	-.36	74225.846	1.5	85244.330	.5
907.3296	18.00	-.77	111667.870	0.0	122686.200	1.0
907.3344	23.00	-4.14	15103.770	4.5	26122.040	3.5
907.3896	28.01	-2.19	120203.490	2.5	131221.090	3.5
907.4110	26.01	-4.49	50076.100	1.5	61093.440	2.5
907.4135	28.01	-3.99	121294.670	4.5	132311.980	4.5
907.4185	29.01	-3.36	137044.450	4.0	148061.700	3.0
907.4554	26.00	-4.85	47693.289	3.0	58710.090	3.0
907.4792	26.00	-4.62	42784.387	6.0	53800.900	5.0
907.4934	28.01	-3.70	119315.440	2.5	130331.780	1.5
907.5379	27.00	-2.88	43242.950	2.5	54258.750	2.5
907.5387	24.00	-3.64	35862.820	4.0	46878.610	3.0
907.5453	28.01	-3.31	122837.330	4.5	133853.040	4.5
907.5456	18.00	-2.74	107496.463	1.0	118512.170	0.0
907.5456	14.00	-1.94	48102.323	2.0	59118.030	3.0
907.5494	10.01	-1.95	301801.090	3.5	312816.750	4.5
907.5626	28.02	-4.12	121802.800	3.0	132818.300	2.0
907.5709	17.01	-2.42	161634.900	2.0	172650.300	3.0
907.5824	18.00	-3.80	113643.260	1.0	124658.520	2.0
907.5956	10.01	-1.72	291801.880	1.5	302816.980	1.5
907.6697	21.00	-2.80	24656.800	.5	35671.000	1.5
907.6788	23.00	-3.60	15724.220	3.5	26738.310	4.5
907.6837	28.01	-4.54	99559.330	2.5	110573.360	2.5
907.6887	26.01	-3.31	50142.930	2.5	61156.900	3.5
907.7093	28.01	-3.47	118828.610	2.5	129842.330	2.5
907.7274	28.01	-4.40	122837.330	4.5	133850.830	3.5
907.7560	26.00	-3.42	42532.729	3.0	53545.882	3.0
907.7724	28.00	-3.59	43654.974	3.0	54667.928	4.0
907.7728	27.00	-3.53	43847.980	3.5	54860.930	4.5
907.7768	8.02	-.77	439278.100	1.0	450291.000	1.0
907.8272	23.01	-3.61	62133.390	3.0	73145.680	3.0
907.8288	6.00	-.45	60352.630	1.0	71364.900	1.0
907.8309	17.00	-1.66	85917.937	.5	96930.181	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
907.8456	14.00	-1.67	48020.074	1.0	59032.140	2.0
907.8527	27.00	-4.69	23184.230	2.5	34196.210	1.5
907.8552	24.00	-4.28	37205.880	3.0	48217.830	2.0
907.8671	28.00	-1.24	44565.100	3.0	55576.905	3.0
907.8725	24.00	-2.89	46349.500	2.0	57361.240	3.0
907.9228	9.02	-3.32	430374.750	2.5	441385.880	1.5
907.9434	18.01	-4.19	179931.770	1.5	190942.650	.5
907.9442	10.01	-.79	283322.350	1.5	294333.220	.5
907.9540	26.00	-.90	37521.144	2.0	48531.896	3.0
907.9706	18.01	.04	183985.940	1.5	194996.490	1.5
907.9937	24.01	-4.82	53051.550	1.5	64061.820	1.5
907.9995	23.00	-1.94	26604.770	3.5	37614.970	3.5
908.0094	18.01	-1.48	185093.230	4.5	196103.310	4.5
908.0144	28.00	-4.15	22102.349	4.0	33112.368	3.0
908.0309	6.00	-2.03	78340.280	1.0	89350.100	2.0
908.0327	26.00	-3.73	39969.830	3.0	50979.627	4.0
908.0380	26.00	-1.70	40594.413	4.0	51604.146	3.0
908.0630	7.01	-3.61	210301.680	3.0	221311.110	4.0
908.0893	20.02	-.13	336749.110	1.0	347758.220	2.0
908.1315	24.01	-3.34	73485.600	3.5	84494.200	2.5
908.1537	24.00	-3.74	36577.730	4.0	47586.060	5.0
908.1570	18.01	-3.22	185624.730	3.5	196633.020	2.5
908.1644	15.01	-2.41	130950.200	2.0	141958.400	1.0
908.1983	18.00	-4.74	113643.260	1.0	124651.050	1.0
908.2024	24.00	-4.07	37244.170	4.0	48251.910	3.0
908.2231	22.00	-2.31	37852.021	1.0	48859.510	1.0
908.2461	10.01	-1.79	281025.940	2.5	292033.150	2.5
908.2568	17.00	-3.93	84988.480	1.5	95995.561	.5
908.2717	9.02	-3.10	380250.520	2.5	391257.420	2.5
908.2948	28.01	-4.26	111783.790	3.5	122790.410	4.5
908.4054	23.01	-2.79	44657.990	2.0	55663.270	1.0
908.4202	26.00	-3.43	34328.733	3.0	45333.834	2.0
908.4384	27.00	-6.23	14036.280	1.5	25041.160	1.5
908.4384	25.00	-2.18	35165.050	1.5	46169.930	.5
908.4599	10.01	-.48	280797.260	2.5	291801.880	1.5
908.4756	24.00	-2.84	46368.350	3.0	57372.780	4.0
908.5193	23.00	-2.15	9824.580	2.5	20828.480	2.5
908.5262	28.00	-2.99	31786.210	3.0	42790.027	2.0
908.5350	23.00	-3.07	26021.890	3.5	37025.600	3.5
908.5408	10.01	-.89	301801.090	3.5	312804.730	2.5
908.6093	28.01	-4.20	121925.160	.5	132927.970	1.5
908.6335	22.00	-4.31	26657.409	4.0	37659.927	3.0
908.6640	22.00	-2.20	28638.832	2.0	39640.980	3.0
908.6804	18.01	-2.89	199525.150	1.5	210527.100	2.5
908.6928	29.01	-1.24	139741.100	3.0	150742.900	3.0
908.6980	22.00	-5.09	14105.680	3.0	25107.417	2.0
908.6985	27.00	-3.67	41968.890	2.5	52970.620	2.5
908.7283	23.00	-4.16	28595.640	3.5	39597.010	4.5
908.7341	17.01	-3.34	159574.200	2.0	170575.500	3.0
908.7423	24.01	-4.06	54678.950	4.5	65680.150	4.5
908.7464	24.00	-2.85	46349.500	2.0	57350.650	2.0
908.7646	27.00	-1.07	43425.710	2.5	54426.640	1.5
908.7702	22.00	-2.01	18911.399	2.0	29912.262	3.0
908.7811	24.01	-3.32	53923.570	4.5	64924.300	3.5
908.8101	24.00	-4.98	38537.680	5.0	49538.060	5.0
908.8142	28.01	-4.22	120218.220	6.5	131218.550	6.5
908.8184	18.00	-4.29	113643.260	1.0	124643.540	1.0
908.8307	28.01	-3.35	120222.890	1.5	131223.020	2.5
908.8324	26.00	-2.03	22946.810	1.0	33946.920	2.0
908.8513	6.00	-.43	60352.630	1.0	71352.510	0.0
908.8654	25.00	-4.04	51787.920	.5	62787.630	1.5
908.8720	27.00	-4.50	44555.710	1.5	55555.340	2.5
908.8993	15.00	-3.44	66834.500	1.5	77833.800	1.5
908.9282	25.02	-.77	181949.340	2.5	192948.290	1.5
908.9415	26.00	-2.39	23783.617	5.0	34782.406	5.0
908.9464	29.01	-1.62	137034.970	3.0	148033.700	4.0
908.9480	7.01	-.75	203258.980	2.0	214257.690	1.0
908.9770	22.00	-4.84	31725.750	1.0	42724.110	2.0
908.9976	18.01	-3.05	144709.910	.5	155708.020	.5
909.0424	22.00	-1.85	28788.372	4.0	39785.940	4.0
909.0638	22.00	-3.65	35652.950	3.0	46650.260	3.0
909.0679	23.00	-1.91	26505.880	2.5	37503.140	2.5
909.0729	22.00	-1.01	14105.680	3.0	25102.880	2.0
909.0770	18.01	-3.44	185624.730	3.5	196621.880	3.5
909.1067	28.01	-3.35	122812.970	3.5	133809.760	3.5
909.1273	22.00	-3.23	20209.444	2.0	31205.985	3.0
909.1704	26.00	-2.84	40052.080	2.0	51048.100	1.0
909.1825	22.00	-3.36	18911.399	2.0	29907.273	2.0
909.2177	26.00	-3.17	33765.291	2.0	44760.739	1.0
909.2399	27.00	-2.67	43263.570	1.5	54258.750	2.5
909.2473	28.01	-2.14	105838.060	3.5	116833.150	4.5
909.2746	20.02	.73	359520.600	2.0	370515.360	3.0
909.2911	7.01	-1.38	210301.680	3.0	221296.240	2.0
909.2961	28.01	-4.69	122175.420	2.5	133169.920	3.5
909.3192	10.01	-1.36	302425.870	1.5	313420.090	2.5
909.3681	27.00	-3.31	43911.360	1.5	54904.990	2.5
909.3764	26.00	-4.17	47008.351	5.0	58001.880	6.0
909.3788	29.01	-1.85	137649.100	2.0	148642.600	2.0
909.3901	28.00	-3.06	45281.152	3.0	56274.516	2.0
909.4061	10.01	-3.52	302425.870	1.5	313419.040	1.5
909.4078	18.01	-4.84	203918.150	1.5	214911.300	2.5
909.4260	10.01	.25	291968.140	.5	302961.070	1.5
909.4293	24.00	-2.49	46368.350	3.0	57361.240	3.0
909.4565	28.00	-1.14	43258.792	4.0	54251.353	3.0
909.4574	29.01	-2.50	137073.750	2.0	148066.300	2.0
909.4698	28.01	-3.36	111120.540	1.5	122112.940	.5
909.4831	6.00	.12	60393.140	2.0	71385.380	2.0
909.5096	18.01	.84	203197.440	3.5	214189.360	4.5
909.5435	27.00	-2.88	22475.360	4.5	33466.870	3.5
909.5468	6.00	-3.71	78307.630	2.0	89299.100	3.0
909.5559	18.01	-2.11	189040.870	1.5	200032.230	1.5
909.5807	27.00	-2.30	43435.580	.5	54426.640	1.5
909.5914	26.00	-3.85	36975.640	3.0	47966.571	3.0
909.5947	10.01	.89	291202.030	3.5	302192.920	4.5
909.6162	7.01	-.15	210301.680	3.0	221292.310	3.0
909.6692	20.02	.13	359543.080	4.0	370533.070	4.0
909.6726	25.01	-4.55	55696.500	4.0	66686.450	3.0
909.7173	28.01	-2.01	120144.170	2.5	131133.580	2.5
909.7305	25.00	-3.29	51305.410	2.5	62294.660	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
909.7305	29.01	-3.43	137044.450	4.0	148033.700	4.0
909.7515	9.00	-1.66	117622.923	2.5	128611.920	1.5
909.7603	10.01	-1.01	301855.710	2.5	312844.600	1.5
909.7736	29.01	-1.47	133826.200	2.0	144814.930	3.0
909.7897	26.00	-3.13	36766.950	3.0	47755.485	3.0
909.7967	27.00	-3.80	23207.760	1.5	34196.210	1.5
909.8208	21.00	-4.58	25584.640	2.5	36572.800	2.5
909.8373	27.00	-3.39	41982.660	1.5	52970.620	2.5
909.8381	29.01	-1.64	137073.750	2.0	148061.700	3.0
909.8473	17.00	-2.25	91538.500	1.5	102526.340	2.5
909.8499	26.00	-4.45	43079.013	1.0	54066.821	2.0
909.8550	26.00	-4.04	40231.312	2.0	51219.059	3.0
909.8589	18.01	-.12	190732.970	.5	201720.670	1.5
909.8837	17.02	-2.92	194959.500	2.5	205946.900	2.5
909.8879	18.01	-.69	203197.440	3.5	214184.790	3.5
909.8915	22.00	-2.23	37852.434	4.0	48839.740	3.0
909.9089	20.00	-1.04	31539.495	1.0	42526.591	2.0
909.9251	20.02	-1.61	362893.470	2.0	373880.370	3.0
909.9366	20.02	-4.01	382565.100	5.0	393551.860	5.0
909.9366	18.00	-3.34	114805.180	2.0	125791.940	2.0
909.9714	18.01	.05	191169.520	1.5	202155.860	2.5
909.9884	28.00	-1.17	42767.900	3.0	53754.036	2.0
910.0395	26.00	-4.93	39625.784	4.0	50611.303	3.0
910.0419	23.00	-1.99	26437.680	1.5	37423.170	1.5
910.0841	23.00	-1.38	26004.220	2.5	36989.200	2.5
910.1155	9.00	-4.93	105056.282	.5	116040.883	1.5
910.1363	29.01	-1.89	137044.450	4.0	148028.800	5.0
910.1504	26.01	-3.07	58666.360	3.5	69650.540	2.5
910.1695	24.00	-4.34	35862.820	4.0	46846.770	3.0
910.1711	29.01	-3.26	135952.550	2.0	146936.480	2.0
910.1778	12.01	-1.64	103419.700	2.5	114403.550	2.5
910.1778	12.01	-.34	103419.700	2.5	114403.550	3.5
910.2026	12.01	-.50	103420.000	1.5	114403.550	2.5
910.2344	9.00	-.71	117622.923	2.5	128606.090	2.5
910.2358	28.01	-2.59	120250.170	3.5	131233.320	4.5
910.2391	28.01	-4.05	120250.170	3.5	131233.280	3.5
910.2399	27.00	-2.49	43921.890	2.5	54904.990	2.5
910.2540	28.01	-4.11	88171.880	4.5	99154.810	4.5
910.3062	24.00	-3.31	46368.350	3.0	57350.650	2.0
910.3175	14.00	-1.65	49028.294	0.0	60010.458	1.0
910.3228	29.01	-1.18	122745.770	2.0	133727.870	2.0
910.3228	29.01	-1.11	137649.100	2.0	148631.200	3.0
910.3394	14.00	-1.85	49060.601	1.0	60042.500	0.0
910.3503	28.00	-1.85	45281.152	3.0	56262.920	3.0
910.3557	22.00	-4.19	25227.217	3.0	36208.920	4.0
910.3655	26.00	-3.34	33695.378	5.0	44676.963	4.0
910.3985	22.00	-4.85	20209.444	2.0	31190.631	2.0
910.4214	9.01	-4.26	253475.280	2.0	264456.190	3.0
910.4214	9.01	-4.91	253475.280	3.0	264456.190	3.0
910.4264	6.00	-2.76	78318.250	3.0	89299.100	3.0
910.4289	25.00	-2.50	57305.620	3.5	68286.440	4.5
910.4314	28.01	-2.11	120144.170	2.5	131124.960	3.5
910.4405	9.01	-4.04	253475.280	3.0	264455.960	4.0
910.4632	22.00	-2.53	37743.933	3.0	48724.340	2.0
910.4770	25.00	-3.82	51787.920	.5	62768.160	.5
910.4778	9.01	-4.79	253475.960	1.0	264456.190	2.0
910.5458	23.00	-2.17	26004.220	2.5	36983.630	1.5
910.5622	20.00	-1.75	31539.495	1.0	42518.708	1.0
910.5749	23.00	-2.44	15270.420	1.5	26249.480	1.5
910.5799	17.02	-4.36	194959.500	2.5	205938.500	1.5
910.6068	22.00	-3.37	31205.985	3.0	42184.660	4.0
910.6114	18.00	-2.56	114805.180	2.0	125783.800	1.0
910.6122	10.01	-1.39	280989.530	1.5	291968.140	.5
910.6246	23.00	-9.02	13810.900	.5	24789.360	.5
910.6343	28.00	-.76	43258.792	4.0	54237.136	4.0
910.6579	18.01	.83	189414.960	3.5	200393.020	4.5
910.6661	23.00	-3.52	26249.480	1.5	37227.440	2.5
910.6943	23.00	-2.16	26397.360	.5	37374.980	.5
910.7175	27.00	-3.82	42811.440	3.5	53788.780	4.5
910.7333	23.00	-2.60	26344.940	4.5	37322.090	3.5
910.7341	28.01	-3.28	105861.190	2.5	116838.330	1.5
910.7590	29.01	-2.03	108014.660	3.0	118991.500	4.0
910.7652	26.00	-2.54	46720.824	4.0	57697.590	4.0
910.7683	26.00	-4.99	40231.312	2.0	51208.040	1.0
910.7894	9.00	-1.36	117164.006	2.5	128140.480	2.5
910.7922	9.01	-1.27	253474.660	4.0	264451.100	3.0
910.8005	9.01	-.10	253474.660	4.0	264451.000	4.0
910.8005	9.01	.77	253474.660	4.0	264451.000	5.0
910.8088	24.00	-3.29	35870.530	4.0	46846.770	3.0
910.8420	10.01	-.72	306687.290	2.5	317663.130	1.5
910.8437	9.01	-.97	253475.280	2.0	264451.100	1.0
910.8437	9.01	.03	253475.280	2.0	264451.100	2.0
910.8437	9.01	-.97	253475.280	3.0	264451.100	2.0
910.8437	9.01	.41	253475.280	2.0	264451.100	3.0
910.8437	9.01	.05	253475.280	3.0	264451.100	3.0
910.8486	23.00	-4.66	26182.600	.5	37158.360	1.5
910.8520	9.01	.60	253475.280	3.0	264451.000	4.0
910.8827	20.00	-1.75	31539.495	1.0	42514.845	0.0
910.9001	9.01	-.13	253475.960	0.0	264451.100	1.0
910.9001	9.01	-.13	253475.960	1.0	264451.100	1.0
910.9001	9.01	.17	253475.960	1.0	264451.100	2.0
910.9018	9.01	-4.69	254541.450	2.0	265516.570	1.0
910.9092	9.01	-4.90	254541.540	1.0	265516.570	1.0
910.9125	26.01	-2.95	58631.650	4.5	69606.640	3.5
910.9292	18.00	-3.26	114147.750	1.0	125122.540	0.0
910.9300	28.01	-.77	93528.440	3.5	104503.220	2.5
910.9599	22.00	-4.90	26564.385	3.0	37538.804	2.0
911.0055	28.01	-2.57	127867.130	4.5	138841.000	3.5
911.0114	17.01	-1.43	150681.000	2.0	161654.800	1.0
911.0611	23.00	-3.76	20812.990	1.5	31786.190	.5
911.0902	28.01	-4.29	120250.170	3.5	131223.020	2.5
911.1174	18.00	-3.10	111818.090	1.0	122790.612	0.0
911.1375	20.02	-1.16	359543.080	4.0	370515.360	3.0
911.1508	18.00	-4.15	114805.180	2.0	125777.300	1.0
911.1608	27.00	-2.07	34133.590	3.5	45105.590	3.5
911.1807	6.00	-.51	60393.140	2.0	71364.900	1.0
911.2015	10.01	-2.14	292546.700	.5	303518.210	1.5
911.2139	10.01	-1.27	301801.090	3.5	312772.450	2.5
911.2264	15.01	-.48	101636.490	1.0	112607.700	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
911.2269	26.00	-3.85	42859.756	2.0	53830.960	3.0
911.2505	28.01	-3.77	120250.170	3.5	131221.090	3.5
911.2505	10.01	.12	301801.090	3.5	312772.010	3.5
911.2646	24.00	-4.52	36895.730	3.0	47866.480	4.0
911.2995	24.00	-2.36	35398.020	4.0	46368.350	3.0
911.3203	9.01	-3.91	254546.490	2.0	265516.570	1.0
911.3311	18.00	-2.34	114821.990	3.0	125791.940	2.0
911.3684	23.00	-2.66	26352.590	2.5	37322.090	3.5
911.3709	23.00	-2.87	9636.960	1.5	20606.430	.5
911.3934	16.01	-1.84	153282.800	2.5	164252.000	1.5
911.4025	23.00	-4.59	13801.530	1.5	24770.620	.5
911.4141	26.01	-3.94	50187.950	3.5	61156.900	3.5
911.4175	25.00	-1.99	35114.980	2.5	46083.890	1.5
911.4374	18.01	-.08	189437.690	.5	200406.360	.5
911.4748	28.01	-3.39	118874.110	3.5	129842.330	2.5
911.4765	22.00	-4.17	37090.650	0.0	48058.850	1.0
911.4781	10.01	-3.89	302750.810	3.5	313718.990	3.5
911.5176	26.00	-4.70	44411.137	1.0	55378.842	2.0
911.5272	23.00	-2.59	15770.720	4.5	26738.310	4.5
911.5504	23.00	-3.42	26021.890	3.5	36989.200	2.5
911.6849	26.00	-4.60	40404.492	1.0	51370.184	2.0
911.6859	26.01	-2.81	50076.100	1.5	61041.780	2.5
911.7001	6.00	-1.84	77679.820	2.0	88645.330	2.0
911.7142	26.00	-3.77	23051.744	0.0	34017.084	1.0
911.7225	28.01	-2.47	118877.090	1.5	129842.330	2.5
911.7309	6.00	-2.63	86912.860	1.0	97878.000	2.0
911.7346	14.00	-4.65	49850.830	2.0	60815.925	2.0
911.7441	26.00	-4.73	44411.137	1.0	55376.117	1.0
911.7466	28.01	-4.97	101754.800	2.5	112719.750	3.5
911.7475	16.01	-1.50	153153.660	.5	164118.600	.5
911.7832	28.01	-3.86	120268.810	3.5	131233.320	4.5
911.7865	28.01	-3.13	120268.810	3.5	131233.280	3.5
911.7915	20.02	-3.95	382587.900	4.0	393552.310	4.0
911.7923	10.01	-.76	301801.090	3.5	312765.490	3.5
911.7957	27.00	-4.33	22475.360	4.5	33439.720	4.5
911.8048	28.01	-1.70	111120.540	1.5	122084.790	1.5
911.8422	8.01	-2.52	254895.200	1.5	265859.000	.5
911.8497	27.00	-1.93	44201.920	2.5	55165.630	2.5
911.8539	28.01	-3.18	97799.660	1.5	108763.320	.5
911.8892	26.00	-3.03	22838.320	2.0	33801.555	2.0
911.9008	22.00	-3.47	25388.334	4.0	36351.430	5.0
911.9188	28.01	-3.77	120270.440	5.5	131233.320	4.5
911.9238	10.01	.69	301801.090	3.5	312763.910	4.5
911.9446	9.02	-3.38	421005.360	.5	431967.930	.5
911.9585	26.00	-3.34	42911.897	5.0	53874.300	5.0
911.9986	26.00	-3.74	34547.192	2.0	45509.112	1.0
912.0336	8.02	-.30	439329.500	2.0	450291.000	1.0
912.0494	28.01	-3.76	120271.970	2.5	131233.280	3.5
912.0669	15.03	-.35	309102.400	1.0	320063.500	1.0
912.0835	28.01	-4.10	88171.880	4.5	99132.780	5.5
912.0927	28.01	-4.90	120272.530	4.5	131233.320	4.5
912.0960	28.01	-3.90	120272.530	4.5	131233.280	3.5
912.1077	7.01	-.26	210266.040	2.0	221226.650	3.0
912.1143	17.00	.21	71958.363	2.5	82918.893	2.5
912.1193	24.00	-2.79	46422.460	4.0	57382.930	5.0
912.1201	23.00	-2.20	26480.280	3.5	37440.740	4.5
912.1817	23.00	-5.35	13810.900	.5	24770.620	.5
912.1867	25.01	-9.32	27583.300	4.0	38542.960	3.0
912.1917	13.01	-4.94	133679.300	3.0	144638.900	2.0
912.2042	27.00	-3.56	43555.220	3.5	54514.670	3.5
912.2408	28.01	-1.92	120144.170	2.5	131103.180	2.5
912.2499	8.02	-.30	439278.100	1.0	450237.000	2.0
912.2638	26.00	-4.17	44166.240	3.0	55124.974	3.0
912.2655	9.00	-.74	117164.006	2.5	128122.719	1.5
912.2849	6.00	-1.97	77679.820	2.0	88638.300	2.0
912.2849	6.00	-1.28	77679.820	2.0	88638.300	3.0
912.2962	18.00	-.18	93143.800	2.0	104102.144	1.0
912.2972	22.00	-1.43	25107.417	2.0	36065.750	3.0
912.3390	27.00	-4.53	43398.620	3.5	54356.450	4.5
912.3523	26.00	-3.37	43108.899	4.0	54066.570	4.0
912.3615	15.00	-2.00	66813.040	1.5	77770.600	.5
912.3865	24.00	-3.17	24940.610	2.0	35897.870	2.0
912.4025	26.00	-3.96	43922.652	3.0	54879.720	2.0
912.4090	26.00	-3.02	47017.170	3.0	57974.160	2.0
912.4248	13.01	-3.58	132213.200	1.0	143170.000	0.0
912.4248	13.01	-3.19	132213.200	1.0	143170.000	1.0
912.4248	13.01	-2.89	132213.200	1.0	143170.000	2.0
912.4923	23.00	-3.59	20830.200	.5	31786.190	.5
912.5780	18.00	-4.38	113426.050	2.0	124381.010	2.0
912.5972	25.01	-9.53	27588.230	3.0	38542.960	3.0
912.6089	25.00	-3.37	52128.650	2.5	63083.240	1.5
912.6296	26.00	-4.11	36975.640	3.0	47929.981	4.0
912.6405	28.01	-4.40	120268.810	3.5	131223.020	2.5
912.6426	14.00	-2.48	48102.323	2.0	59056.508	1.0
912.6447	23.00	-4.52	20767.570	3.5	31721.730	4.5
912.6447	6.00	-.97	77679.820	2.0	88633.980	3.0
912.6664	17.01	-.97	150681.000	2.0	161634.900	2.0
912.6847	27.00	-4.47	43398.620	3.5	54352.300	3.5
912.6914	23.00	-1.84	26122.040	3.5	37075.640	4.5
912.7734	26.00	-3.19	46744.975	3.0	57697.590	4.0
912.8072	28.01	-3.20	120281.110	4.5	131233.320	4.5
912.8105	28.01	-4.93	120281.110	4.5	131233.280	3.5
912.8116	10.00	-2.95	158795.992	1.0	169748.150	1.0
912.8181	9.01	-3.01	254546.330	3.0	265498.410	2.0
912.8314	9.01	-3.91	254546.490	2.0	265498.410	2.0
912.8938	26.00	-3.04	43210.011	2.0	54161.182	3.0
912.9039	28.01	-3.25	120271.970	2.5	131223.020	2.5
912.9164	13.01	-4.75	134181.200	4.0	145132.100	4.0
912.9164	13.01	-4.89	134181.200	4.0	145132.100	4.0
912.9164	13.01	-3.23	134181.200	5.0	145132.100	4.0
912.9414	15.03	-.05	309102.400	1.0	320053.000	1.0
912.9639	18.00	-2.73	113426.050	2.0	124376.380	1.0
912.9647	24.00	-2.17	46422.460	4.0	57372.780	4.0
912.9672	9.02	-1.83	380307.130	1.5	391257.420	2.5
913.0033	14.00	-2.25	49060.601	1.0	60010.458	1.0
913.0139	14.00	-1.28	53362.240	3.0	64311.970	4.0
913.0448	27.00	-3.91	23184.230	2.5	34133.590	3.5
913.0648	28.01	-2.43	120271.970	2.5	131221.090	3.5
913.0731	10.01	-.08	301855.710	2.5	312804.730	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
913.0790	23.00	-4.90	10892.500	3.5	21841.450	2.5
913.1115	27.00	-4.95	42988.120	3.5	53936.680	2.5
913.1224	25.00	-3.78	51530.610	3.5	62479.040	4.5
913.1307	10.01	-.76	301855.710	2.5	312804.040	1.5
913.1490	28.01	-1.87	120270.440	5.5	131218.550	6.5
913.1833	13.01	-4.89	134181.200	3.0	145128.900	3.0
913.1833	13.01	-2.84	134181.200	4.0	145128.900	3.0
913.1833	13.01	-2.36	134181.200	4.0	145128.900	3.0
913.2608	9.00	-1.74	117391.950	.5	128338.720	.5
913.2745	26.00	-2.80	40052.080	2.0	50998.686	2.0
913.2825	25.01	-3.80	55696.500	4.0	66643.010	4.0
913.3251	27.00	-1.81	41918.410	3.5	52864.410	4.5
913.3813	10.00	-3.86	161524.174	1.0	172469.500	2.0
913.3835	13.01	-3.46	134181.200	3.0	145126.500	2.0
913.4118	18.01	-1.43	192556.840	2.5	203501.800	2.5
913.4226	28.00	-4.13	40361.254	3.0	51306.085	3.0
913.4569	28.01	-3.48	122086.580	3.5	133031.000	4.5
913.4594	28.01	-2.11	118897.940	2.5	129842.330	2.5
913.5046	22.00	-4.26	18911.399	2.0	29855.248	1.0
913.5396	10.01	-.82	302475.610	.5	313419.040	1.5
913.5951	22.00	-2.74	18825.890	1.0	29768.655	2.0
913.6130	29.01	-3.19	137073.750	2.0	148016.300	1.0
913.6333	26.00	-4.12	40894.972	2.0	51837.279	3.0
913.6664	18.00	-2.61	113716.610	3.0	124658.520	2.0
913.6681	18.00	-4.33	111667.870	0.0	122609.760	1.0
913.6780	26.00	-4.80	40207.120	3.0	51148.892	2.0
913.6807	23.01	-4.37	62085.020	2.0	73026.760	2.0
913.6848	14.00	-2.05	53362.240	3.0	64303.930	3.0
913.7118	26.00	-4.40	44183.607	2.0	55124.974	3.0
913.7366	18.01	-3.26	189040.870	1.5	199981.940	1.5
913.7809	24.00	-3.82	31352.420	1.0	42292.960	1.0
913.7842	17.01	-2.90	159574.200	2.0	170514.700	1.0
913.8026	26.01	-3.73	58666.360	3.5	69606.640	3.5
913.8276	28.01	-4.21	120281.110	4.5	131221.090	3.5
913.8385	24.01	-2.63	54444.190	3.5	65384.040	4.5
913.8410	23.00	-3.24	31317.500	4.5	42257.320	5.5
913.8477	18.01	-4.37	147227.970	.5	158167.710	1.5
913.8510	10.01	-1.14	280262.330	3.5	291202.030	3.5
913.8652	28.01	-2.92	94729.250	2.5	105668.780	2.5
913.8794	22.00	-6.60	13981.750	1.0	24921.110	1.0
913.8811	27.00	-4.47	41101.800	.5	52041.140	.5
913.9162	6.00	-3.15	78293.490	1.0	89232.410	1.0
913.9279	24.00	-2.94	46422.460	4.0	57361.240	3.0
913.9688	22.00	-2.41	37976.780	2.0	48915.070	2.0
913.9705	27.00	-2.53	41918.410	3.5	52856.680	3.5
913.9754	22.00	-1.93	28702.768	3.0	39640.980	3.0
913.9922	9.02	-.20	431432.270	1.5	442370.280	.5
913.9988	28.00	-4.32	47030.148	3.0	57968.080	3.0
914.0125	26.00	-3.32	26224.961	3.0	37162.729	3.0
914.0131	27.00	-6.66	13795.520	2.5	24733.280	2.5
914.0140	24.00	-3.70	31355.210	2.0	42292.960	1.0
914.0181	17.01	-3.21	161634.900	2.0	172572.600	2.0
914.0516	23.00	-2.70	26437.680	1.5	37374.980	.5
914.1042	23.00	-4.28	28462.150	2.5	39398.820	3.5
914.1084	18.01	-.35	203730.860	1.5	214667.480	2.5
914.1385	27.00	-3.30	41225.760	4.5	52162.020	3.5
914.1519	15.00	-4.17	66834.500	1.5	77770.600	.5
914.2045	14.00	-2.89	53362.240	3.0	64297.710	4.0
914.2879	22.00	-3.84	37172.947	1.0	48107.420	2.0
914.3207	23.00	-2.72	26182.600	.5	37116.680	.5
914.3291	23.00	-4.50	15571.900	2.5	26505.880	2.5
914.3475	29.01	-4.99	135952.550	2.0	146886.310	1.0
914.3893	27.00	-3.34	41982.660	1.5	52915.920	.5
914.4052	10.01	-3.51	280268.960	2.5	291202.030	3.5
914.4303	25.00	-4.05	51546.270	4.5	62479.040	4.5
914.5096	22.00	-1.98	26892.926	3.0	37824.748	4.0
914.5273	28.01	-2.91	120144.170	2.5	131075.780	1.5
914.5304	26.00	-4.59	43325.946	3.0	54257.520	2.0
914.5365	28.01	-3.39	101754.800	2.5	112686.300	2.5
914.5399	27.00	-4.55	41101.800	.5	52033.260	1.5
914.5683	21.00	-3.53	25584.640	2.5	36515.760	1.5
914.5750	10.01	-4.72	281720.280	1.5	292651.320	1.5
914.5868	9.01	-4.58	254541.410	4.0	265472.310	3.0
914.5926	10.01	-1.82	291495.040	2.5	302425.870	1.5
914.5934	25.02	-2.52	181949.340	2.5	192880.160	3.5
914.6035	27.00	-2.17	41225.760	4.5	52156.460	4.5
914.6052	18.00	-3.00	113426.050	2.0	124356.730	2.0
914.6119	15.01	-1.45	130020.400	3.0	140951.000	3.0
914.6121	22.00	-2.47	28596.293	1.0	39526.890	2.0
914.6420	7.01	.20	210301.680	3.0	221231.920	4.0
914.6528	26.00	-4.96	47590.070	4.0	58520.180	4.0
914.6774	14.00	-1.67	48102.323	2.0	59032.140	2.0
914.6821	23.00	-4.75	32988.820	3.5	43918.580	2.5
914.6880	25.00	-3.58	51100.490	4.5	62030.180	4.5
914.7165	26.00	-3.13	43137.472	3.0	54066.821	2.0
914.7324	28.01	-4.83	87538.090	3.5	98467.250	3.5
914.7375	26.00	-3.52	43137.472	3.0	54066.570	4.0
914.7639	26.00	-1.66	42911.897	5.0	53840.680	6.0
914.7780	26.00	-3.49	40421.890	4.0	51350.505	4.0
914.7920	26.00	-1.31	40842.130	3.0	51770.577	3.0
914.8043	27.00	-4.71	41104.960	2.5	52033.260	1.5
914.8361	10.01	-1.35	292033.150	2.5	302961.070	1.5
914.8395	24.00	-3.88	25106.340	3.0	36034.220	3.0
914.9006	18.00	-4.96	114147.750	1.0	125074.900	2.0
914.9468	26.00	-4.45	40404.492	1.0	51331.090	2.0
914.9701	23.00	-6.71	13801.530	1.5	24727.850	2.5
914.9819	9.01	-2.95	254546.130	4.0	265472.310	3.0
914.9986	9.01	-4.02	254546.330	3.0	265472.310	3.0
915.0408	26.00	-3.36	46888.494	2.0	57813.970	3.0
915.0549	22.00	-4.52	33655.853	2.0	44581.160	2.0
915.0799	18.01	-2.82	147503.020	1.5	158428.030	.5
915.0832	7.01	-1.16	210301.680	3.0	221226.650	3.0
915.0933	18.00	-3.26	114147.750	1.0	125072.600	1.0
915.0937	26.00	-2.94	46889.126	4.0	57813.970	3.0
915.0957	29.01	-3.83	117928.480	1.0	128853.300	2.0
915.0991	6.00	-3.25	78307.630	2.0	89232.410	1.0
915.1585	18.01	-1.12	190106.230	1.5	201030.300	.5
915.1792	9.00	-.22	117164.006	2.5	128087.829	2.5
915.2490	18.00	-4.21	113426.050	2.0	124349.040	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
915.2927	26.00	-3.42	43210.011	2.0	54132.480	1.0
915.3077	28.01	-4.62	122812.970	3.5	133735.260	2.5
915.3211	18.00	-3.16	114861.670	0.0	125783.800	1.0
915.3220	15.00	-.66	65787.380	3.5	76709.500	3.5
915.3446	27.00	-1.80	43555.220	3.5	54477.070	3.5
915.3454	6.00	-2.91	86956.160	1.0	97878.000	2.0
915.3773	15.00	-1.88	66813.040	1.5	77734.500	2.5
915.3864	11.00	-2.57	29172.839	2.5	40094.190	2.5
915.3864	11.00	-1.27	29172.839	2.5	40094.190	3.5
915.3906	11.00	-1.42	29172.889	1.5	40094.190	2.5
915.3991	24.00	-3.44	35501.260	3.0	46422.460	4.0
915.4518	26.00	-3.65	37046.000	4.0	47966.571	3.0
915.4587	22.00	-.94	33660.671	1.0	44581.160	2.0
915.5583	10.01	-.05	327774.480	4.5	338693.780	4.5
915.5667	26.00	-2.41	41130.620	1.0	52049.820	2.0
915.5667	10.01	-1.69	327774.480	4.5	338693.680	3.5
915.5726	28.01	-2.19	118923.200	3.5	129842.330	2.5
915.5785	18.01	-4.23	179592.130	2.5	190511.190	2.5
915.5969	25.00	-2.61	35165.050	1.5	46083.890	1.5
915.6045	18.01	.21	189040.870	1.5	199959.620	2.5
915.6112	10.01	-1.71	327775.110	3.5	338693.780	4.5
915.6196	10.01	-.15	327775.110	3.5	338693.680	3.5
915.6212	23.00	-3.44	27187.770	2.5	38106.320	2.5
915.6218	26.00	-4.14	24338.766	3.0	35257.309	4.0
915.6531	22.00	-4.29	31805.940	2.0	42724.110	2.0
915.6573	23.00	-1.84	15103.770	4.5	26021.890	3.5
915.6581	25.00	-4.74	51560.930	5.5	62479.040	4.5
915.6841	17.01	-2.86	161654.800	1.0	172572.600	2.0
915.7044	26.00	-4.22	40231.312	2.0	51148.870	3.0
915.7269	23.00	-2.67	26505.880	2.5	37423.170	1.5
915.7613	16.01	-1.70	153201.720	1.5	164118.600	.5
915.7635	12.00	-2.80	49346.729	1.0	60263.583	2.0
915.7731	10.01	-.12	301855.710	2.5	312772.450	2.5
915.8100	10.01	.29	301855.710	2.5	312772.010	3.5
915.8376	23.00	-3.76	15688.800	2.5	26604.770	3.5
915.8661	18.00	-2.88	114861.670	0.0	125777.300	1.0
915.8997	18.01	-3.94	179592.130	2.5	190507.360	1.5
915.9251	26.00	-4.61	34636.820	2.0	45551.748	1.0
915.9711	26.02	-4.26	199700.830	4.0	210615.210	3.0
916.0072	29.01	-2.31	137073.750	2.0	147987.700	2.0
916.0357	18.01	-2.84	188766.150	2.5	199679.760	2.5
916.0525	10.01	-3.22	302831.170	3.5	313744.580	4.5
916.0567	10.01	-4.89	302831.170	3.5	313744.530	3.5
916.1247	6.00	-4.89	86965.450	2.0	97878.000	2.0
916.1323	18.00	-2.65	113468.550	2.0	124381.010	2.0
916.1557	23.00	-3.23	15270.420	1.5	26182.600	.5
916.1667	18.00	-4.25	114147.750	1.0	125059.800	2.0
916.1826	24.01	-3.37	73406.680	.5	84318.540	1.5
916.2319	9.00	-1.69	117308.558	1.5	128219.830	1.5
916.2335	26.00	-2.46	43325.946	3.0	54237.200	4.0
916.2649	28.01	-4.64	118563.390	3.5	129474.270	3.5
916.3220	29.01	-1.60	137649.100	2.0	148559.300	2.0
916.3573	10.01	.04	301855.710	2.5	312765.490	3.5
916.3732	9.02	-1.54	384358.540	.5	395268.130	1.5
916.3960	26.00	-1.94	41130.620	1.0	52039.939	1.0
916.4094	23.00	-3.22	31268.150	3.5	42177.310	4.5
916.4157	17.00	-1.79	84988.480	1.5	95897.565	1.5
916.4194	27.00	-2.83	42434.230	2.5	53343.270	1.5
916.4329	23.00	-2.81	26249.480	1.5	37158.360	1.5
916.4337	27.00	-4.91	43952.060	5.5	54860.930	4.5
916.4521	26.00	-1.57	39625.784	4.0	50534.435	3.0
916.4749	23.00	-2.04	15571.900	2.5	26480.280	3.5
916.5211	18.00	-3.55	113468.550	2.0	124376.380	1.0
916.5489	8.02	-1.03	439329.500	2.0	450237.000	2.0
916.5513	27.00	-2.05	42796.670	1.5	53704.140	2.5
916.5799	23.00	-3.02	15264.830	5.5	26171.960	4.5
916.6068	24.00	-3.39	35813.730	3.0	46720.540	4.0
916.6245	24.01	-3.23	73411.940	1.5	84318.540	1.5
916.7178	26.01	-4.22	50187.950	3.5	61093.440	2.5
916.7388	23.00	-4.69	19189.280	1.5	30094.520	1.5
916.7489	18.01	-4.34	199679.760	2.5	210584.880	1.5
916.7595	22.00	-1.33	25227.217	3.0	36132.210	4.0
916.8355	10.01	-1.22	327774.480	4.5	338678.570	3.5
916.8699	23.00	-1.42	26171.960	4.5	37075.640	4.5
916.8800	23.00	-1.31	26122.040	3.5	37025.600	3.5
916.8885	10.01	-2.79	327775.110	3.5	338678.570	3.5
916.9342	26.00	-4.41	34692.130	1.0	45595.046	0.0
916.9364	10.02	-4.00	398952.340	2.0	409855.230	1.0
916.9740	13.00	-4.03	32435.435	1.5	43337.877	1.5
916.9753	9.00	-1.41	117622.923	2.5	128525.350	2.5
916.9784	10.01	-.74	302816.980	1.5	313719.370	2.5
916.9811	28.00	-1.25	45281.152	3.0	56183.510	4.0
916.9894	28.01	-4.98	122080.250	2.5	132982.510	1.5
916.9978	28.01	-.71	122812.970	3.5	133715.130	4.5
917.0137	9.02	-4.37	430374.750	2.5	441276.720	2.5
917.0793	14.00	-2.02	49399.670	1.0	60300.860	2.0
917.0870	13.00	-3.07	32436.778	2.5	43337.877	1.5
917.0890	22.00	-3.51	31205.985	3.0	42107.060	4.0
917.0911	10.01	-1.57	302843.530	3.5	313744.580	4.5
917.0928	22.00	-3.56	33680.130	3.0	44581.160	2.0
917.0936	18.01	-3.80	150147.620	2.5	161048.640	1.5
917.0953	10.01	-3.11	302843.530	3.5	313744.530	3.5
917.1332	10.02	-3.07	398946.980	4.0	409847.530	3.0
917.1391	26.02	-3.89	190393.270	1.0	201293.750	2.0
917.1441	10.01	-1.67	302844.110	2.5	313744.530	3.5
917.1494	9.00	-2.33	117622.923	2.5	128523.280	1.5
917.1795	15.00	-4.98	66834.500	1.5	77734.500	2.5
917.1904	28.01	-4.14	122270.050	3.5	133169.920	3.5
917.2150	13.00	-3.33	32435.435	1.5	43335.013	.5
917.2165	25.00	-1.86	35041.370	3.5	45940.930	2.5
917.2197	55.00	.05	11732.308	0.0	22634.821	0.0
917.2233	10.02	-3.89	398955.750	1.0	409855.230	1.0
917.2620	10.02	-3.67	398948.510	3.0	409847.530	3.0
917.2763	26.01	-3.90	50142.930	2.5	61041.780	2.5
917.2830	26.00	-3.41	33765.291	2.0	44664.061	2.0
917.3066	29.01	-2.13	133984.600	3.0	144883.090	2.0
917.3167	23.00	-2.83	26604.770	3.5	37503.140	2.5
917.3267	14.02	-.82	243868.500	3.0	254766.750	2.0
917.3618	26.00	-1.61	40842.130	3.0	51739.964	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
917.3968	26.00	-3.78	26623.726	2.0	37521.144	2.0
917.4404	28.01	-1.66	109148.050	4.5	120044.950	4.5
917.4581	28.01	-4.20	109269.830	1.5	120166.520	1.5
917.4657	10.01	-.82	301948.000	1.5	312844.600	1.5
917.4682	10.02	-4.06	398948.510	3.0	409845.080	2.0
917.5128	26.02	-3.85	190397.710	2.0	201293.750	2.0
917.5499	10.01	-.72	301948.000	1.5	312843.600	.5
917.5591	6.00	-2.70	77679.820	2.0	88575.310	3.0
917.5625	27.00	-4.45	41225.760	4.5	52121.210	4.5
917.5676	26.01	-3.05	49506.990	1.5	60402.380	2.5
917.5836	15.00	-.57	55939.300	.5	66834.500	1.5
917.5844	10.02	-4.52	398952.340	2.0	409847.530	3.0
917.5962	6.00	-.93	77679.820	2.0	88574.870	3.0
917.5979	6.00	-2.02	77679.820	2.0	88574.850	2.0
917.6038	29.01	-4.55	117883.140	4.0	128778.100	4.0
917.6467	28.01	-2.88	105838.060	3.5	116732.510	2.5
917.6510	8.01	-.45	255104.600	2.5	265999.000	3.5
917.6644	25.01	-4.04	71263.920	1.0	82158.160	0.0
917.6813	20.02	-.70	350900.040	2.0	361794.080	1.0
917.7377	23.01	-3.65	62133.390	3.0	73026.760	2.0
917.7773	10.01	.77	316882.210	2.5	327775.110	3.5
917.7908	10.02	-4.32	398952.340	2.0	409845.080	2.0
917.7942	27.00	-1.13	42811.440	3.5	53704.140	2.5
917.7992	22.00	-8.12	14028.470	2.0	24921.110	1.0
917.8017	28.01	-4.76	118379.110	2.5	129271.720	3.5
917.8026	9.02	-1.30	384493.060	1.5	395385.660	2.5
917.8422	6.00	-3.90	78340.280	1.0	89232.410	1.0
917.8515	26.00	-4.84	39969.830	3.0	50861.850	3.0
917.8573	16.01	-1.98	119242.130	1.5	130134.080	2.5
917.8677	9.00	.28	117622.923	2.5	128514.750	3.5
917.8700	25.01	-3.37	71263.920	1.0	82155.720	1.0
917.8909	28.00	-2.79	45281.152	3.0	56172.704	3.0
917.9534	25.00	-1.91	52015.000	3.5	62905.810	2.5
917.9625	20.00	-2.31	37298.287	2.0	48188.990	3.0
917.9635	27.00	-4.50	42811.440	3.5	53702.130	3.5
917.9769	26.00	-2.41	36940.600	2.0	47831.132	2.0
917.9888	27.00	-4.51	43555.220	3.5	54445.610	2.5
918.0142	18.00	-1.15	111818.090	1.0	122708.180	2.0
918.0320	22.00	-2.41	28896.062	5.0	39785.940	4.0
918.0689	26.02	-4.07	190404.310	3.0	201293.750	2.0
918.0781	10.02	-4.91	398955.750	1.0	409845.080	2.0
918.0942	28.01	-2.53	99132.780	5.5	110021.920	4.5
918.1119	27.00	-3.13	43537.710	1.5	54426.640	1.5
918.1239	20.00	-2.54	37298.287	2.0	48187.075	3.0
918.1264	20.00	-3.46	37298.287	2.0	48187.045	2.0
918.1456	28.01	-4.53	122112.940	.5	133001.470	.5
918.1751	18.00	-3.02	113468.550	2.0	124356.730	2.0
918.1777	27.00	-1.71	41225.760	4.5	52113.910	5.5
918.1827	8.02	-.24	366486.910	1.0	377375.000	2.0
918.1854	22.00	-2.28	28638.832	2.0	39526.890	2.0
918.1912	28.01	-4.59	119100.060	1.5	129988.050	2.5
918.2080	26.00	-3.94	42859.756	2.0	53747.547	3.0
918.2080	27.00	-4.84	41968.890	2.5	52856.680	3.5
918.2139	28.01	-.44	119773.600	6.5	130661.320	5.5
918.2150	26.00	-4.91	43079.013	1.0	53966.720	2.0
918.2620	25.01	-3.06	71263.920	1.0	82151.070	2.0
918.2831	6.00	-.96	72610.720	2.0	83497.620	2.0
918.3514	28.01	-1.95	106007.890	2.5	116893.980	2.5
918.3624	8.02	-4.05	366801.040	3.0	377687.000	2.0
918.3672	22.00	-4.34	37172.947	1.0	48058.850	1.0
918.3759	20.02	-3.51	360388.680	3.0	371274.480	2.0
918.4274	23.00	-3.43	31228.980	2.5	42114.170	3.5
918.5185	27.00	-3.60	43398.620	3.5	54282.730	2.5
918.5294	26.00	-3.21	37046.000	4.0	47929.981	4.0
918.5731	22.00	-3.92	37325.407	2.0	48208.870	3.0
918.5784	8.01	-1.12	255104.600	2.5	265988.000	2.5
918.6012	27.00	-1.71	42811.440	3.5	53694.570	3.5
918.6350	22.00	-2.81	37976.780	2.0	48859.510	1.0
918.6357	20.00	-4.36	36554.749	1.0	47437.471	0.0
918.6443	24.01	-3.72	53566.220	3.5	64448.840	2.5
918.6443	26.00	-4.74	42991.680	5.0	53874.300	5.0
918.6738	24.01	-3.29	73436.270	2.5	84318.540	1.5
918.6840	14.00	-4.09	49933.775	3.0	60815.925	2.0
918.7416	26.00	-3.13	47092.693	3.0	57974.160	2.0
918.7454	7.00	.26	99663.427	2.5	110544.850	2.5
918.7863	7.00	-.88	99663.912	1.5	110544.850	2.5
918.8190	23.00	-3.02	15724.220	3.5	26604.770	3.5
918.8224	26.01	-3.59	50212.930	2.5	61093.440	2.5
918.8241	18.00	-2.34	113468.550	2.0	124349.040	3.0
918.8317	8.01	-.16	255104.600	2.5	265985.000	3.5
918.8368	24.00	-3.74	35807.900	2.0	46688.240	3.0
918.8578	10.01	-1.72	302839.280	2.5	313719.370	2.5
918.8841	21.00	-3.21	29022.870	2.5	39902.650	3.5
918.8899	10.01	-.41	302839.280	2.5	313718.990	3.5
918.9170	21.00	-2.04	24866.180	1.5	35745.570	2.5
918.9397	26.00	-3.33	37157.546	2.0	48036.667	2.0
918.9535	26.00	-4.55	47831.132	2.0	58710.090	3.0
919.0429	10.01	-.66	316897.210	3.5	327775.110	3.5
919.0961	10.01	.88	316897.210	3.5	327774.480	4.5
919.1181	18.01	-1.62	172213.800	1.5	183090.810	1.5
919.1400	22.00	-3.90	38159.710	3.0	49036.460	4.0
919.1476	23.00	-3.20	26738.310	4.5	37614.970	3.5
919.1669	9.00	-1.01	117308.558	1.5	128184.990	.5
919.1730	17.00	-.22	72488.568	1.5	83364.927	.5
919.2600	18.01	.18	183985.940	1.5	194861.270	2.5
919.2879	26.00	-3.55	40534.180	3.0	51409.180	4.0
919.3006	23.00	-3.62	26352.590	2.5	37227.440	2.5
919.3294	24.00	-4.09	35813.730	3.0	46688.240	3.0
919.3471	28.01	-1.69	121437.680	5.5	132311.980	4.5
919.3488	27.00	-2.81	44394.470	3.5	55268.750	3.5
919.3777	26.00	-3.31	37162.729	3.0	48036.667	2.0
919.3945	15.00	-2.63	55939.300	.5	66813.040	1.5
919.4258	28.01	-4.98	122140.710	4.5	133014.080	5.5
919.4630	22.00	-4.29	11531.760	2.0	22404.690	3.0
919.4633	18.00	-1.22	104102.144	1.0	114975.070	1.0
919.4732	22.00	-3.18	37852.021	1.0	48724.830	1.0
919.4799	26.00	-3.72	33412.706	3.0	44285.436	2.0
919.4824	29.01	-2.58	137649.100	2.0	148521.800	1.0
919.4926	23.00	-4.64	28368.760	1.5	39241.340	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
919.5146	22.00	-3.30	37852.021	1.0	48724.340	2.0
919.5399	15.00	-2.60	65787.380	3.5	76659.400	2.5
919.5991	28.01	-2.75	105861.190	2.5	116732.510	2.5
919.6207	28.00	-4.90	22102.349	4.0	32973.414	4.0
919.6431	25.00	-4.87	33825.490	2.5	44696.290	2.5
919.6727	24.00	-2.33	35807.900	2.0	46678.350	1.0
919.7167	23.00	-3.88	31200.120	1.5	42070.050	2.5
919.7432	26.00	-8.50	11976.239	4.0	22845.856	5.0
919.7596	17.00	-1.97	74865.667	.5	85735.091	1.5
919.7819	24.00	-3.39	35807.900	2.0	46677.060	2.0
919.8344	28.01	-2.17	115870.280	2.5	126738.820	1.5
919.8539	18.00	-.59	111818.090	1.0	122686.400	2.0
919.8708	18.00	-.85	111818.090	1.0	122686.200	1.0
919.8801	16.05	-.24	451785.000	1.5	462653.000	2.5
919.8970	8.01	-1.65	254895.200	2.5	265763.000	3.5
919.8970	13.01	-.79	133914.100	2.0	144781.900	3.0
919.9398	26.00	-1.10	40594.413	4.0	51461.707	4.0
919.9478	23.00	-2.46	26249.480	1.5	37116.680	.5
919.9512	23.00	-2.14	26122.040	3.5	36989.200	2.5
919.9545	25.00	-2.94	51638.170	2.5	62505.290	3.5
919.9554	28.01	-2.67	99154.810	4.5	110021.920	4.5
919.9571	24.00	-2.71	35501.260	3.0	46368.350	3.0
919.9740	10.01	-.40	292651.320	1.5	303518.210	1.5
919.9816	8.01	-1.33	254895.200	1.5	265762.000	1.5
920.0536	24.00	-3.87	31352.420	1.0	42218.370	0.0
920.0680	23.00	-4.52	15571.900	2.5	26437.680	1.5
920.0697	17.00	-3.01	91660.580	2.5	102526.340	2.5
920.0765	17.00	-1.71	91660.580	2.5	102526.260	3.5
920.1578	22.00	-2.01	38159.710	3.0	49024.430	3.0
920.1849	15.00	-4.84	65157.200	2.5	76021.600	1.5
920.2476	10.01	-1.98	291968.140	.5	302831.800	.5
920.2755	24.00	-2.21	35813.730	3.0	46677.060	2.0
920.2865	28.01	-.88	116468.400	1.5	127331.600	2.5
920.2891	23.00	-3.10	9824.580	2.5	20687.750	1.5
920.3068	22.00	-4.74	37976.780	2.0	48839.740	3.0
920.3101	26.00	-1.72	40842.130	3.0	51705.052	2.0
920.3162	23.00	-5.28	11100.650	4.5	21963.500	3.5
920.3162	27.00	-2.21	43295.320	4.5	54158.170	4.5
920.3679	10.00	-3.74	161607.261	2.0	172469.500	2.0
920.3679	10.00	-2.59	161607.261	2.0	172469.500	3.0
920.3806	22.00	-3.52	31190.631	2.0	42052.720	3.0
920.3848	9.02	-0.00	431432.270	1.5	442294.310	1.5
920.4077	10.01	-1.25	281171.380	2.5	292033.150	2.5
920.4221	13.01	-.30	139286.800	2.0	150148.400	3.0
920.4297	21.00	-3.48	29096.200	3.5	39957.710	4.5
920.4729	25.00	-4.27	51169.180	5.5	62030.180	4.5
920.4741	26.00	-3.31	42532.729	3.0	53393.715	4.0
920.5289	29.01	-1.17	122867.530	1.0	133727.870	2.0
920.5467	27.00	-3.79	43398.620	3.5	54258.750	2.5
920.5738	23.00	-4.19	31317.500	4.5	42177.310	4.5
920.5948	26.00	-4.82	40894.972	2.0	51754.534	1.0
920.6340	20.02	.82	363021.270	2.0	373880.370	3.0
920.6620	24.00	-2.06	31393.400	5.0	42252.170	6.0
920.6747	26.00	-4.40	36975.640	3.0	47834.260	3.0
920.6899	24.00	-4.20	48558.570	2.0	59417.010	3.0
920.6910	20.00	-3.36	40537.893	3.0	51396.320	3.0
920.7272	17.01	-1.59	150813.000	1.0	161671.000	0.0
920.7510	24.00	-4.90	35862.820	4.0	46720.540	4.0
920.7592	7.00	-.88	99663.427	2.5	110521.050	1.5
920.7764	10.01	-.45	292033.150	2.5	302890.570	2.5
920.7815	27.00	-2.03	45688.150	2.5	56545.510	2.5
920.7903	22.00	-2.95	18911.399	2.0	29768.655	2.0
920.8003	7.00	.07	99663.912	1.5	110521.050	1.5
920.8016	26.00	-3.81	42911.897	5.0	53769.020	4.0
920.8070	27.00	-1.90	41918.410	3.5	52775.470	4.5
920.8265	24.00	-1.64	25177.390	4.0	36034.220	3.0
920.8282	26.00	-3.16	43210.011	2.0	54066.821	2.0
920.8345	14.00	-1.20	49060.601	1.0	59917.336	2.0
920.8350	10.01	-.57	301948.000	1.5	312804.730	2.5
920.8475	55.00	-.87	11732.308	0.0	22591.869	0.0
920.8536	22.00	-2.01	26803.417	2.0	37659.927	3.0
920.8630	8.01	-1.13	255104.600	2.5	265961.000	2.5
920.8647	18.00	-3.18	114975.070	1.0	125831.450	0.0
920.8808	28.01	-4.18	118563.390	3.5	129419.580	4.5
920.8935	10.01	-.02	301948.000	1.5	312804.040	1.5
920.9207	9.01	-3.54	278368.010	2.0	289223.730	1.0
920.9259	28.00	-1.55	45418.858	2.0	56274.516	2.0
920.9400	26.00	-3.17	36975.640	3.0	47831.132	2.0
920.9978	28.01	-3.82	109148.050	4.5	120002.860	3.5
921.0004	10.01	-2.02	280947.100	1.5	291801.880	1.5
921.0033	26.00	-3.48	22946.810	1.0	33801.555	2.0
921.0114	27.00	-3.10	40345.950	2.5	51200.600	1.5
921.0368	18.01	-2.59	147875.860	2.5	158730.210	2.5
921.0759	27.00	-4.00	41918.410	3.5	52772.300	2.5
921.0888	14.00	-1.49	48264.292	3.0	59118.030	3.0
921.0971	23.00	-2.42	26171.960	4.5	37025.600	3.5
921.0980	27.00	-3.64	40345.950	2.5	51199.580	3.5
921.1633	28.01	-3.84	115827.120	3.5	126679.980	4.5
921.1692	20.02	.77	360207.160	2.0	371059.950	3.0
921.1837	25.00	-2.53	57485.970	2.5	68338.590	3.5
921.1847	22.00	-2.23	28788.372	4.0	39640.980	3.0
921.2142	23.00	-4.14	15078.250	.5	25930.510	1.5
921.2524	17.00	-4.89	84121.872	1.5	94973.683	.5
921.2658	22.00	-4.98	25107.417	2.0	35959.070	1.0
921.2660	28.01	-2.96	105981.500	4.5	116833.150	4.5
921.2863	16.00	.41	52622.690	2.0	63474.101	3.0
921.2931	26.00	-1.85	43022.969	4.0	53874.300	5.0
921.2970	26.00	-4.64	47420.215	5.0	58271.500	5.0
921.3773	24.00	-4.76	48507.560	1.0	59357.900	2.0
921.3933	20.01	-1.71	78034.390	3.5	88884.540	3.5
921.3933	20.01	-.17	78034.390	3.5	88884.540	4.5
921.3933	20.01	-.28	78034.390	2.5	88884.540	3.5
921.4537	28.01	-3.91	127991.560	3.5	138841.000	3.5
921.4749	25.00	-3.59	51638.170	2.5	62487.360	2.5
921.4911	26.00	-3.04	42991.680	5.0	53840.680	6.0
921.5046	10.01	-.41	291968.140	.5	302816.980	1.5
921.5522	29.01	-2.70	122745.770	2.0	133594.050	3.0
921.5556	24.00	-2.59	35501.260	3.0	46349.500	2.0
921.5692	21.00	-3.36	25724.720	3.5	36572.800	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
921.5956	9.02	-4.07	376879.070	3.5	387726.840	4.5
921.5998	28.01	-4.21	122080.250	2.5	132927.970	1.5
921.6321	18.01	-3.08	199679.760	2.5	210527.100	2.5
921.6525	8.01	-1.24	255140.900	1.5	265988.000	2.5
921.6835	22.00	-4.32	31205.985	3.0	42052.720	3.0
921.6899	9.02	-1.20	431432.270	1.5	442278.930	2.5
921.6975	23.00	-7.23	13801.530	1.5	24648.100	1.5
921.7060	7.01	-.21	203537.660	1.0	214384.130	2.0
921.7250	26.00	-4.69	43079.013	1.0	53925.260	1.0
921.7442	23.00	-4.04	31268.150	3.5	42114.170	3.5
921.7460	8.01	-2.33	265220.300	1.5	276066.300	1.5
921.7460	8.01	-1.93	265220.300	1.5	276066.300	2.5
921.7513	26.00	-.89	40257.300	5.0	51103.237	5.0
921.7663	25.01	-3.27	55696.500	4.0	66542.260	5.0
921.8080	27.00	-1.42	41918.410	3.5	52763.680	3.5
921.8250	12.01	.27	69804.950	.5	80650.020	1.5
921.8309	16.05	-.08	451808.000	2.5	462653.000	3.5
921.8309	16.05	-1.38	451808.000	2.5	462653.000	2.5
921.8316	26.00	-4.65	40894.972	2.0	51739.964	2.0
921.8998	18.01	.15	190507.360	1.5	201351.550	2.5
921.9107	28.00	-2.95	45418.858	2.0	56262.920	3.0
921.9261	18.01	-4.99	173347.830	1.5	184191.710	.5
921.9865	18.00	-2.81	113468.550	2.0	124311.720	1.0
922.0008	22.00	-3.11	18818.230	0.0	29661.232	1.0
922.0435	8.02	-.07	428487.000	1.0	439329.500	2.0
922.0486	22.00	-2.70	36132.210	4.0	46974.650	5.0
922.0605	18.00	-2.07	114641.040	2.0	125483.340	2.0
922.0724	24.00	-3.00	35862.820	4.0	46704.980	5.0
922.0758	18.00	-.72	114641.040	2.0	125483.160	3.0
922.1022	23.00	-2.44	26480.280	3.5	37322.090	3.5
922.1031	17.01	-1.61	150813.000	1.0	161654.800	1.0
922.1115	29.01	-2.62	135733.600	3.0	146575.300	2.0
922.1150	18.00	-2.45	114641.040	2.0	125482.700	3.0
922.1253	26.00	-4.52	43163.282	4.0	54004.820	3.0
922.1540	8.02	-.21	357111.000	2.0	367952.200	1.0
922.1600	23.00	-4.36	15664.750	1.5	26505.880	2.5
922.1651	23.00	-4.25	31228.980	2.5	42070.050	2.5
922.1812	10.01	-4.78	302903.650	2.5	313744.530	3.5
922.2255	18.01	-.89	190511.190	2.5	201351.550	2.5
922.2954	26.00	-4.19	44285.436	2.0	55124.974	3.0
922.2977	28.00	-2.29	43933.428	2.0	54772.940	3.0
922.3086	9.00	-1.09	117872.916	1.5	128712.300	1.5
922.3089	16.01	-1.95	119294.700	2.5	130134.080	2.5
922.3089	20.01	-2.13	70677.620	.5	81517.000	1.5
922.3727	27.00	-4.99	44568.470	2.5	55407.100	1.5
922.3810	22.00	-2.30	25227.217	3.0	36065.750	3.0
922.4042	6.01	-1.72	178955.940	3.5	189794.200	3.5
922.4042	6.01	-.17	178955.940	3.5	189794.200	4.5
922.4042	6.01	-.29	178955.940	2.5	189794.200	3.5
922.4073	26.00	-4.79	39969.830	3.0	50808.053	4.0
922.4176	26.00	-3.41	47136.058	2.0	57974.160	2.0
922.4383	18.01	-2.06	190507.360	1.5	201345.220	1.5
922.4496	18.00	-.41	95399.870	1.0	106237.597	2.0
922.4536	37.00	-2.24	20132.510	0.0	30973.164	0.0
922.4689	8.02	-.29	439329.500	2.0	450167.000	3.0
922.4944	23.00	-7.27	13810.900	.5	24648.100	1.5
922.5571	26.00	-4.75	36975.640	3.0	47812.104	4.0
922.5847	24.00	-4.25	35884.400	5.0	46720.540	4.0
922.5991	23.00	-.65	26604.770	3.5	37440.740	4.5
922.6247	24.00	-4.69	44373.340	3.0	55209.010	4.0
922.6485	26.02	-3.61	189679.070	3.0	200514.460	4.0
922.6526	22.00	-3.32	18825.890	1.0	29661.232	1.0
922.6616	26.00	-3.43	43325.946	3.0	54161.182	3.0
922.6715	29.01	-1.34	110084.290	1.0	120919.410	1.0
922.6877	27.00	-4.21	43847.980	3.5	54682.910	4.5
922.7363	20.00	-2.61	36547.688	0.0	47382.048	1.0
922.7550	18.01	-3.27	190196.160	.5	201030.300	.5
922.7626	23.00	-3.87	15770.720	4.5	26604.770	3.5
922.7644	18.01	-3.03	190511.190	2.5	201345.220	1.5
922.7652	27.00	-4.82	44555.710	1.5	55389.730	1.5
922.7907	23.00	-4.93	31200.120	1.5	42033.840	1.5
922.8086	27.00	-6.18	14399.280	.5	25232.790	.5
922.8094	16.00	.26	52622.690	2.0	63456.192	2.0
922.8462	22.00	-4.72	20795.599	5.0	31628.668	5.0
922.8487	27.00	-2.03	43425.710	2.5	54258.750	2.5
922.8606	29.01	-3.76	137649.100	2.0	148482.000	3.0
922.8620	10.00	-2.98	161636.617	1.0	172469.500	2.0
922.8666	28.01	-2.72	120199.180	1.5	131032.010	2.5
922.8708	15.00	-1.86	67113.820	2.5	77946.600	2.5
922.8887	25.01	-3.41	71323.150	2.0	82155.720	1.0
922.9032	8.01	-4.28	265431.500	2.5	276263.900	1.5
922.9126	23.00	-4.79	19189.280	1.5	30021.570	.5
922.9202	6.01	.47	168123.740	1.5	178955.940	2.5
922.9439	9.00	-.72	117308.558	1.5	128140.480	2.5
922.9449	25.00	-3.16	51169.180	5.5	62001.090	6.5
922.9458	28.01	-4.30	122080.250	2.5	132912.150	2.5
922.9484	26.01	-4.44	50157.610	4.5	60989.480	4.5
922.9807	6.01	.62	168124.450	2.5	178955.940	3.5
922.9807	6.01	-.68	168124.450	2.5	178955.940	2.5
922.9810	20.00	-4.06	40537.893	3.0	51369.380	2.0
922.9841	24.00	-4.79	44373.340	3.0	55204.790	3.0
923.0123	26.00	-4.78	40534.180	3.0	51365.300	3.0
923.0594	22.00	-3.78	8492.421	1.0	19322.988	2.0
923.0796	29.01	-.93	133984.600	3.0	144814.930	3.0
923.1248	29.01	-4.48	129759.600	1.0	140589.400	0.0
923.1718	26.00	-3.21	43137.472	3.0	53966.720	2.0
923.2032	23.00	-4.31	28768.130	4.5	39597.010	4.5
923.2101	10.01	-3.27	302890.570	2.5	313719.370	2.5
923.2196	28.00	-3.50	47139.392	2.0	57968.080	3.0
923.2339	28.01	-2.60	120203.490	2.5	131032.010	2.5
923.2424	10.01	-1.86	302890.570	2.5	313718.990	3.5
923.2509	28.01	-1.40	119833.000	5.5	130661.320	5.5
923.2671	10.01	-2.45	292451.780	1.5	303279.910	2.5
923.2721	26.00	-4.22	40052.080	2.0	50880.152	1.0
923.2850	25.01	-3.13	71323.150	2.0	82151.070	2.0
923.2884	9.00	-1.16	117391.950	.5	128219.830	1.5
923.3131	26.00	-2.24	42911.897	5.0	53739.488	5.0
923.3328	28.01	-4.90	122084.790	1.5	132912.150	2.5
923.3380	20.00	-2.14	36554.749	1.0	47382.048	1.0
923.3728	26.00	-4.19	47693.289	3.0	58520.180	4.0
923.3806	27.00	-4.60	18389.570	1.5	29216.370	2.5
923.3968	9.01	-2.65	278397.120	1.0	289223.730	1.0
923.4130	10.01	-.57	281720.280	1.5	292546.700	.5
923.4147	10.01	-.92	327774.480	4.5	338600.880	4.5
923.4147	37.00	-2.78	20132.510	0.0	30961.881	0.0
923.4164	10.01	.81	327774.480	4.5	338600.860	5.5
923.4317	29.01	-.41	135733.600	3.0	146559.800	4.0
923.4386	24.00	-4.17	48661.590	3.0	59487.710	4.0
923.4531	25.00	-2.56	35114.980	2.5	45940.930	2.5
923.4684	10.01	.73	327775.110	3.5	338600.880	4.5
923.4855	28.01	-3.94	122086.580	3.5	132912.150	2.5
923.4914	25.01	-1.51	98423.500	6.0	109249.000	5.0
923.4983	24.00	-2.63	35862.820	4.0	46688.240	3.0
923.5085	25.01	-2.29	98423.700	5.0	109249.000	5.0
923.5170	25.01	-3.33	98423.800	4.0	109249.000	5.0
923.5363	9.00	-.04	117872.916	1.5	128697.890	2.5
923.5742	25.01	-3.04	94230.900	2.0	105055.430	2.0
923.5811	10.01	.15	301948.000	1.5	312772.450	2.5
923.5938	28.01	-.93	119656.250	3.5	130480.550	3.5
923.6090	22.00	-2.43	28702.768	3.0	39526.890	2.0
923.6706	8.01	-1.59	255104.600	2.5	265928.000	1.5
923.6749	24.00	-1.54	36895.730	3.0	47719.080	4.0
923.7048	29.01	-3.19	135733.600	3.0	146556.600	3.0
923.7116	25.01	-4.44	62572.200	2.0	73395.120	3.0
923.7133	13.01	-.42	139286.800	2.0	150109.700	3.0
923.7517	25.01	-1.68	98423.700	5.0	109246.150	4.0
923.7538	16.00	.04	52622.690	2.0	63445.115	1.0
923.7602	25.01	-2.11	98423.800	4.0	109246.150	4.0
923.7773	29.01	-2.47	117747.450	3.0	128569.600	2.0
923.7773	25.01	-2.93	98424.000	3.0	109246.150	4.0
923.7987	15.00	-1.96	66834.500	1.5	77656.400	.5
923.7987	17.01	-2.07	150813.000	1.0	161634.900	2.0
923.8037	14.00	-1.42	49188.617	2.0	60010.458	1.0
923.8243	8.02	-.05	428606.000	2.0	439427.600	3.0
923.8302	6.01	.17	177793.540	1.5	188615.070	2.5
923.8593	25.01	-3.75	71323.150	2.0	82144.340	3.0
923.9113	24.00	-4.84	35884.400	5.0	46704.980	5.0
923.9199	6.00	-2.69	78529.620	3.0	89350.100	2.0
923.9224	25.01	-4.97	62564.700	1.0	73385.150	1.0
923.9285	20.01	-2.51	70677.620	.5	81498.000	.5
923.9481	25.01	-1.89	98423.800	4.0	109243.950	3.0
923.9524	8.01	-.70	255140.900	1.5	265961.000	2.5
923.9651	25.01	-2.08	98424.000	3.0	109243.950	3.0
923.9737	25.01	-2.72	98424.100	2.0	109243.950	3.0
923.9819	28.00	-3.02	31786.210	3.0	42605.964	3.0
924.0261	22.00	-3.37	8602.340	2.0	19421.576	3.0
924.0635	26.00	-4.17	47452.702	4.0	58271.500	5.0
924.1009	25.01	-2.15	98424.000	3.0	109242.360	2.0
924.1095	25.01	-2.15	98424.100	2.0	109242.360	2.0
924.1992	25.01	-2.55	98424.100	2.0	109241.310	1.0
924.2018	7.01	.27	210239.830	1.0	221057.010	2.0
924.2103	23.00	-3.67	15688.800	2.5	26505.880	2.5
924.2139	18.00	-4.03	111818.090	1.0	122635.128	2.0
924.2283	18.00	-2.48	114975.070	1.0	125791.940	2.0
924.2804	28.01	-1.23	106007.890	2.5	116824.150	2.5
924.2846	23.00	-.46	26505.880	2.5	37322.090	3.5
924.2889	23.00	-4.76	27187.770	2.5	38003.930	1.5
924.3393	25.00	-1.88	34938.700	4.5	45754.270	3.5
924.3453	8.01	-4.10	255172.500	1.5	265988.000	2.5
924.3658	28.01	-.82	119665.290	2.5	130480.550	3.5
924.3855	28.01	-4.36	122112.940	.5	132927.970	1.5
924.4107	16.00	-4.15	67824.238	2.0	78638.973	3.0
924.4180	28.01	-1.20	119656.250	3.5	130470.900	4.5
924.4265	12.01	-.03	69804.950	.5	80619.500	.5
924.4597	9.00	-.65	117308.558	1.5	128122.719	1.5
924.4829	26.01	-2.75	50142.930	2.5	60956.820	3.5
924.4992	15.01	-.63	129110.600	1.0	139924.300	2.0
924.5000	22.01	-4.96	52631.070	3.5	63444.760	3.5
924.5077	13.01	-1.11	138811.900	2.0	149625.500	2.0
924.5077	13.01	-.38	138811.900	1.0	149625.500	2.0
924.5077	13.01	-.57	138811.900	2.0	149625.500	3.0
924.5077	13.01	-2.65	138811.900	3.0	149625.500	2.0
924.5077	13.01	-1.48	138811.900	3.0	149625.500	3.0
924.5077	13.01	-.05	138811.900	3.0	149625.500	4.0
924.5607	27.00	-3.60	21920.090	4.5	32733.070	3.5
924.5710	24.00	-1.65	36895.730	3.0	47708.590	3.0
924.5727	24.01	-3.84	54444.190	3.5	65257.030	3.5
924.5838	10.01	-.23	291495.040	2.5	302307.750	2.5
924.5927	22.00	-1.23	25388.334	4.0	36200.940	5.0
924.6146	10.01	-1.64	280989.530	1.5	291801.880	1.5
924.6508	12.00	-2.98	46403.065	2.0	57214.992	1.0
924.6565	26.00	-4.81	20874.482	3.0	31686.342	2.0
924.6622	26.00	-3.91	37409.530	1.0	48221.323	1.0
924.6779	9.02	-1.64	444957.110	1.5	455768.720	.5
924.6916	29.01	-4.16	117747.450	3.0	128558.900	3.0
924.7164	28.01	-4.96	117074.700	3.5	127885.860	4.5
924.7421	22.00	-3.05	31373.801	3.0	42184.660	4.0
924.8088	26.00	-3.97	40894.972	2.0	51705.052	2.0
924.8327	8.01	-.18	254895.200	1.5	265705.000	2.5
924.8327	8.01	-.99	254895.200	2.5	265705.000	2.5
924.8353	26.00	-3.02	40052.080	2.0	50861.850	3.0
924.8421	21.00	-.86	31275.320	3.5	42085.010	4.5
924.8669	8.02	-.29	439427.600	3.0	450237.000	2.0
924.8806	26.00	-2.77	40052.080	2.0	50861.320	2.0
924.8909	28.01	-3.06	120222.890	1.5	131032.010	2.5
924.9183	13.01	-1.88	134181.200	4.0	144990.000	4.0
924.9183	13.01	-2.02	134181.200	4.0	144990.000	4.0
924.9183	13.01	-.25	134181.200	4.0	144990.000	5.0
924.9183	13.01	-4.44	134181.200	4.0	144990.000	5.0
924.9183	13.01	-3.35	134181.200	4.0	144990.000	5.0
924.9183	13.01	-.25	134181.200	4.0	144990.000	5.0
924.9183	13.01	-3.63	134181.200	5.0	144990.000	4.0
924.9183	13.01	-1.89	134181.200	5.0	144990.000	5.0
924.9183	13.01	-2.00	134181.200	5.0	144990.000	5.0
924.9183	13.01	-.17	134181.200	5.0	144990.000	6.0
924.9183	13.01	-.35	134181.200	3.0	144990.000	4.0
924.9243	18.00	-2.87	114975.070	1.0	125783.800	1.0
924.9457	18.02	-2.85	214346.700	1.0	225155.180	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
924.9470	26.00	-2.19	46889.126	4.0	57697.590	4.0
924.9875	26.00	-3.90	43022.969	4.0	53830.960	3.0
925.0193	25.01	-4.98	62587.500	3.0	73395.120	3.0
925.0244	9.01	-2.71	278416.170	0.0	289223.730	1.0
925.0646	28.01	-4.61	122175.420	2.5	132982.510	1.5
925.0784	20.00	-1.92	36575.119	2.0	47382.048	1.0
925.1014	6.01	-.08	177774.590	.5	188581.250	1.5
925.1340	27.00	-4.99	44183.340	4.5	54989.620	3.5
925.1468	10.01	-.47	292033.150	2.5	302839.280	2.5
925.1776	23.00	-2.00	26352.590	2.5	37158.360	1.5
925.2117	22.00	-1.17	35439.228	1.0	46244.600	2.0
925.2254	14.00	-2.20	50499.838	2.0	61305.050	3.0
925.2590	21.00	-1.06	24866.180	1.5	35671.000	1.5
925.2624	18.01	.03	184191.710	.5	194996.490	1.5
925.2667	22.01	-2.44	20951.770	2.5	31756.500	1.5
925.2761	28.01	-2.54	111120.540	1.5	121925.160	.5
925.2835	26.00	-4.40	24574.655	4.0	35379.189	5.0
925.2911	14.00	-2.08	50499.838	2.0	61304.283	2.0
925.3684	14.00	-.86	50499.838	2.0	61303.381	3.0
925.3994	23.00	-4.29	28595.640	3.5	39398.820	3.5
925.3995	7.01	-.02	210266.040	2.0	221069.220	3.0
925.4808	18.00	-3.19	114975.070	1.0	125777.300	1.0
925.5254	24.00	-1.80	36895.730	3.0	47697.440	2.0
925.5348	24.01	-3.40	73406.680	.5	84208.280	.5
925.5408	26.01	-3.03	50187.950	3.5	60989.480	4.5
925.5665	18.02	-2.49	214346.700	1.0	225147.930	2.0
925.5682	12.00	-1.47	46403.065	2.0	57204.275	2.0
925.5682	12.00	-.15	46403.065	2.0	57204.275	3.0
925.5691	18.01	-4.48	179931.770	1.5	190732.970	.5
925.5742	28.01	-3.19	68154.310	1.5	78955.450	1.5
925.5778	12.00	-3.10	46403.065	2.0	57204.163	3.0
925.5836	23.00	-1.43	26182.600	.5	36983.630	1.5
925.6153	27.00	-3.70	42988.120	3.5	53788.780	4.5
925.6196	28.01	-4.83	95332.530	2.5	106133.140	1.5
925.6882	21.00	-.77	31215.760	2.5	42015.570	3.5
925.6889	28.00	-3.56	42954.234	2.0	53754.036	2.0
925.7045	28.01	-3.57	105668.780	2.5	116468.400	1.5
925.7293	24.00	-4.59	48558.570	2.0	59357.900	2.0
925.7371	28.01	-4.97	122047.290	3.5	132846.530	3.5
925.7494	22.00	-.78	27025.652	4.0	37824.748	4.0
925.7579	28.00	-2.81	43933.428	2.0	54732.425	2.0
925.8022	21.00	-2.41	14926.240	2.5	25724.720	3.5
925.8200	17.00	-.87	84988.480	1.5	95786.752	2.5
925.8224	26.00	-.77	37162.729	3.0	47960.973	4.0
925.8425	18.01	-2.41	199679.760	2.5	210477.770	3.5
925.8640	22.00	-3.55	31190.631	2.0	41988.390	3.0
925.8785	18.01	.40	204113.710	1.5	214911.300	2.5
925.8811	28.01	-4.82	88171.880	4.5	98969.440	5.5
925.8947	26.00	-.89	39625.784	4.0	50423.185	4.0
925.9334	26.00	-2.53	47177.210	1.0	57974.160	2.0
925.9463	26.00	-2.83	47017.170	3.0	57813.970	3.0
925.9719	12.00	-2.53	49346.729	1.0	60143.230	0.0
925.9857	24.01	-3.42	73411.940	1.5	84208.280	.5
926.0020	18.00	-3.19	113643.260	1.0	124439.410	0.0
926.0320	8.01	-.75	254895.200	2.5	265691.000	3.5
926.0406	8.01	-2.36	265468.200	.5	276263.900	.5
926.0406	8.01	-4.02	265468.200	1.5	276263.900	.5
926.0406	8.01	-2.06	265468.200	.5	276263.900	1.5
926.0406	8.01	-2.78	265468.200	1.5	276263.900	1.5
926.0629	22.00	-3.81	34170.950	0.0	44966.390	1.0
926.0655	24.00	-3.22	35572.940	2.0	46368.350	3.0
926.1187	27.00	-3.90	41968.890	2.5	52763.680	3.5
926.1633	10.01	-.70	280700.770	3.5	291495.040	2.5
926.2440	27.00	-4.20	23152.570	3.5	33945.900	2.5
926.2654	17.00	-2.87	90749.360	2.5	101542.440	1.5
926.2688	9.00	-1.20	117391.950	.5	128184.990	.5
926.3633	27.00	-4.69	44658.030	1.5	55449.970	2.5
926.3864	18.00	-3.84	111818.090	1.0	122609.760	1.0
926.3916	26.01	-4.50	54904.500	3.5	65696.110	4.5
926.3954	26.00	-3.14	40207.120	3.0	50998.686	2.0
926.3959	29.01	-2.13	110084.290	1.0	120875.850	2.0
926.3976	28.01	-3.71	106283.160	2.5	117074.700	3.5
926.3985	24.00	-1.72	25106.340	3.0	35897.870	2.0
926.4027	23.00	-3.25	15688.800	2.5	26480.280	3.5
926.4354	8.02	-.55	428487.000	1.0	439278.100	1.0
926.4374	14.00	-1.60	48102.323	2.0	58893.400	3.0
926.4466	7.01	-.73	210266.040	2.0	221057.010	2.0
926.4654	24.01	-4.09	53271.070	2.5	64061.820	1.5
926.5470	18.01	-2.59	192712.000	1.5	203501.800	2.5
926.5496	25.01	-3.65	94230.900	2.0	105020.670	1.0
926.5504	23.00	-.50	26437.680	1.5	37227.440	2.5
926.5607	27.00	-3.73	41982.660	1.5	52772.300	2.5
926.6234	28.01	-4.29	122080.250	2.5	132869.160	3.5
926.6449	18.01	-4.58	200880.520	3.5	211669.180	2.5
926.6492	27.00	-4.33	44480.140	2.5	55268.750	3.5
926.6561	26.00	-4.81	37046.000	4.0	47834.529	5.0
926.6586	8.01	-1.53	255172.500	1.5	265961.000	2.5
926.6621	7.01	.16	210266.040	2.0	221054.500	3.0
926.6810	21.00	-.91	31172.620	1.5	41960.860	2.5
926.6878	27.00	-4.96	18775.010	.5	29563.170	1.5
926.6895	18.01	-2.41	192556.840	2.5	203344.980	1.5
926.7265	6.01	-.78	177793.540	1.5	188581.250	1.5
926.7274	27.00	-4.88	44201.920	2.5	54989.620	3.5
926.7583	10.01	-1.26	302057.260	.5	312844.600	1.5
926.7789	8.01	-.79	255140.900	1.5	265928.000	1.5
926.8183	26.00	-4.16	34547.192	2.0	45333.834	2.0
926.8431	22.00	-5.00	25227.217	3.0	36013.570	2.0
926.8442	10.01	-.49	302057.260	.5	312843.600	.5
926.8623	10.01	-.82	292451.780	1.5	303237.910	1.5
926.9475	22.00	-4.77	34700.212	5.0	45485.350	5.0
927.0505	20.02	.20	359520.600	2.0	370304.540	2.0
927.0582	9.02	-1.37	430374.750	2.5	441158.600	1.5
927.0599	10.01	-1.54	292033.150	2.5	302816.980	1.5
927.0754	17.00	-1.74	90749.360	2.5	101533.010	2.5
927.0788	17.00	-4.07	90749.360	2.5	101532.970	1.5
927.1141	18.00	-3.56	111818.090	1.0	122601.290	1.0
927.1233	20.00	-1.82	37748.197	1.0	48531.290	2.0
927.1330	18.01	-2.25	200880.520	3.5	211663.500	3.5
927.1674	28.01	-2.95	122086.580	3.5	132869.160	3.5
927.1825	22.00	-4.52	31205.985	3.0	41988.390	3.0
927.2078	28.01	-1.83	115956.710	2.5	126738.820	1.5
927.2162	22.00	-4.53	37325.407	2.0	48107.420	2.0
927.2310	28.01	-3.14	120250.170	3.5	131032.010	2.5
927.2465	23.00	-4.20	15724.220	3.5	26505.880	2.5
927.2646	14.00	-3.06	48020.074	1.0	58801.524	1.0
927.3041	8.02	-.81	366594.010	2.0	377375.000	2.0
927.3300	23.00	-2.56	15571.900	2.5	26352.590	2.5
927.3454	12.00	-2.51	49346.729	1.0	60127.239	2.0
927.3595	28.00	-4.01	47030.148	3.0	57810.494	4.0
927.3659	20.00	-1.42	37751.867	2.0	48532.139	3.0
927.3799	26.00	-4.79	47929.981	4.0	58710.090	3.0
927.4389	20.00	-2.09	37751.867	2.0	48531.290	3.0
927.4389	20.00	-2.95	37751.867	2.0	48531.290	2.0
927.4520	9.00	-2.54	117308.558	1.5	128087.829	2.5
927.4590	23.00	-4.50	28462.150	2.5	39241.340	2.5
927.4857	27.00	-3.05	45766.630	3.5	56545.510	2.5
927.5597	18.01	-1.47	190942.650	.5	201720.670	1.5
927.6200	18.01	-1.08	204133.980	2.5	214911.300	2.5
927.6337	25.00	-1.78	52128.650	2.5	62905.810	2.5
927.6337	26.00	-4.36	47197.000	2.0	57974.160	2.0
927.6570	20.02	-1.67	382784.700	3.0	393561.590	4.0
927.6732	15.01	-2.05	130174.300	2.0	140951.000	3.0
927.6853	24.00	-3.01	35572.940	2.0	46349.500	2.0
927.7008	24.00	-2.18	35398.020	4.0	46174.400	3.0
927.7387	10.01	-2.00	281025.940	2.5	291801.880	1.5
927.7439	25.00	-3.83	35165.050	1.5	45940.930	2.5
927.7473	28.01	-4.28	120166.520	1.5	130942.360	1.5
927.7525	24.00	-2.51	31377.960	4.0	42153.740	5.0
927.8136	9.02	-2.19	384493.060	1.5	395268.130	1.5
927.8248	17.00	-2.80	90749.360	2.5	101524.300	2.5
927.8300	15.00	-2.28	67113.820	2.5	77888.700	1.5
927.8351	17.00	-1.36	90749.360	2.5	101524.180	3.5
927.8386	23.01	-3.66	62133.390	3.0	72908.170	3.0
927.8403	23.01	-4.43	62176.240	4.0	72951.000	4.0
927.8637	22.00	-3.51	31184.021	1.0	41958.510	2.0
927.9195	20.00	-2.55	37757.449	3.0	48531.290	3.0
927.9195	20.00	-1.49	37757.449	3.0	48531.290	4.0
927.9195	20.00	-4.10	37757.449	3.0	48531.290	2.0
927.9307	22.00	-.87	36200.940	5.0	46974.650	5.0
927.9394	23.00	-4.82	20767.570	3.5	31541.180	3.5
927.9713	18.01	-2.33	148620.070	1.5	159393.310	1.5
927.9755	24.00	-4.50	31009.000	3.0	41782.190	4.0
927.9979	23.00	-4.57	15664.750	1.5	26437.680	1.5
928.0118	8.01	-4.59	248514.230	1.5	259287.000	1.5
928.0435	17.00	-1.13	90749.360	2.5	101521.760	3.5
928.0488	22.00	-2.75	36065.750	3.0	46838.090	4.0
928.0910	28.01	-1.07	119889.470	5.5	130661.320	5.5
928.0961	22.00	-3.33	37690.320	5.0	48462.110	5.0
928.1065	7.01	.41	210301.680	3.0	221073.350	4.0
928.1142	23.00	-2.67	27470.880	3.5	38242.460	3.5
928.1504	27.00	-3.71	44394.470	3.5	55165.630	2.5
928.1677	24.00	-3.59	35934.020	6.0	46704.980	5.0
928.1694	26.02	-4.08	190393.270	1.0	201164.210	2.0
928.1727	26.00	-3.66	33412.706	3.0	44183.607	2.0
928.1853	14.00	-4.85	49933.775	3.0	60704.530	3.0
928.1995	26.01	-4.24	54063.530	.5	64834.120	1.5
928.2306	24.00	-4.99	37244.170	4.0	48014.400	4.0
928.2426	20.02	-4.14	382791.500	3.0	393561.590	4.0
928.2476	22.00	-4.81	15156.787	4.0	25926.820	4.0
928.2643	10.00	-4.25	161699.661	2.0	172469.500	2.0
928.2643	10.00	-3.01	161699.661	2.0	172469.500	3.0
928.2676	28.01	-.64	94729.250	2.5	105499.050	3.5
928.2676	8.01	-1.86	254895.200	1.5	265665.000	2.5
928.2676	8.01	-2.10	254895.200	2.5	265665.000	2.5
928.2685	28.01	-.56	93528.440	3.5	104298.230	4.5
928.2952	6.00	-4.97	78529.620	3.0	89299.100	3.0
928.2987	18.01	.07	191012.350	1.5	201781.790	2.5
928.3245	25.00	-2.91	51718.220	1.5	62487.360	2.5
928.3478	26.01	-4.09	50187.950	3.5	60956.820	3.5
928.3676	26.02	-3.53	190397.710	2.0	201166.350	3.0
928.4133	20.02	-3.11	382784.700	3.0	393552.810	3.0
928.4185	10.00	-4.31	161701.451	3.0	172469.500	3.0
928.4185	10.00	-4.11	161701.451	3.0	172469.500	3.0
928.4185	10.00	-2.89	161701.451	3.0	172469.500	4.0
928.4228	15.01	-1.13	118342.600	1.0	129110.600	1.0
928.4332	22.00	-4.80	31190.631	2.0	41958.510	2.0
928.4359	14.00	-2.49	48264.292	3.0	59032.140	2.0
928.4624	7.01	-.98	210301.680	3.0	221069.220	3.0
928.4853	26.00	-4.47	43499.485	4.0	54266.760	5.0
928.4952	28.01	-4.64	122144.990	2.5	132912.150	2.5
928.5089	22.00	-.96	26892.926	3.0	37659.927	3.0
928.5522	26.02	-4.03	190397.710	2.0	201164.210	2.0
928.5587	28.00	-2.60	43933.428	2.0	54699.852	3.0
928.5711	28.01	-2.65	122080.250	2.5	132846.530	3.5
928.6410	6.00	-3.26	78148.090	2.0	88913.560	2.0
928.6469	26.00	-2.81	43108.899	4.0	53874.300	5.0
928.6471	8.01	-.98	255162.600	.5	265928.000	1.5
928.6557	13.01	.78	123415.900	2.0	134181.200	3.0
928.6574	28.01	-1.37	109148.050	4.5	119913.330	4.5
928.6914	22.00	-4.68	11639.804	3.0	22404.690	3.0
928.6997	6.00	-4.24	87113.210	2.0	97878.000	2.0
928.7385	27.00	-4.92	44183.340	4.5	54947.680	5.5
928.7558	10.01	.15	283322.350	1.5	294086.490	1.5
928.8250	22.00	-4.62	28952.100	4.0	39715.437	3.0
928.8368	13.01	-.27	123418.000	3.0	134181.200	3.0
928.8368	13.01	.70	123418.000	3.0	134181.200	4.0
928.8368	13.01	.47	123418.000	3.0	134181.200	4.0
928.8369	28.01	-2.16	120268.810	3.5	131032.010	2.5
928.8463	20.02	-2.74	382798.500	4.0	393561.590	4.0
928.8857	17.00	-2.57	74225.846	1.5	84988.480	1.5
928.8886	29.01	-.57	135733.600	3.0	146496.200	3.0
928.9370	26.02	-3.11	190404.310	3.0	201166.350	3.0
928.9390	26.00	-1.32	40842.130	3.0	51604.146	3.0
928.9607	28.00	-2.55	33500.854	3.0	44262.619	2.0
928.9732	20.02	-.35	363118.750	3.0	373880.370	3.0
929.0000	20.02	-2.88	382791.500	3.0	393552.810	3.0
929.0155	28.01	-3.71	66571.340	2.5	77332.470	2.5
929.0267	23.00	-.69	26397.360	.5	37158.360	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
929.0311	28.01	-4.41	122270.050	3.5	133031.000	4.5
929.0328	25.01	-3.66	71390.140	3.0	82151.070	2.0
929.0406	28.01	-3.44	106133.140	1.5	116893.980	2.5
929.0432	20.02	-2.06	382791.500	3.0	393552.310	4.0
929.0483	24.00	-1.08	20519.600	6.0	31280.350	5.0
929.0494	26.00	-4.02	43922.652	3.0	54683.390	4.0
929.0656	26.02	-4.46	188013.400	4.0	198773.950	5.0
929.0786	13.01	-2.07	123420.800	4.0	134181.200	3.0
929.0786	13.01	-.51	123420.800	4.0	134181.200	4.0
929.0786	13.01	-.65	123420.800	4.0	134181.200	4.0
929.0786	13.01	1.02	123420.800	4.0	134181.200	5.0
929.0837	24.00	-3.64	31393.400	5.0	42153.740	5.0
929.1096	28.01	-2.33	120271.970	2.5	131032.010	2.5
929.1174	28.01	-3.65	122086.580	3.5	132846.530	3.5
929.1217	26.02	-4.25	190404.310	3.0	201164.210	2.0
929.1540	18.00	-1.43	104102.144	1.0	114861.670	0.0
929.1735	8.02	-1.17	370326.700	0.0	381086.000	1.0
929.1917	23.00	-2.50	33306.960	4.5	44066.050	3.5
929.1994	18.01	-3.96	188766.150	2.5	199525.150	1.5
929.2452	23.00	-4.97	28368.760	1.5	39127.230	1.5
929.2599	10.01	.03	302961.070	1.5	313719.370	2.5
929.3541	6.00	-2.66	78116.740	1.0	88873.950	2.0
929.3973	26.00	-3.45	43210.011	2.0	53966.720	2.0
929.3981	13.01	-.45	138811.900	2.0	149568.600	3.0
929.3981	13.01	-1.35	138811.900	3.0	149568.600	3.0
929.4016	24.00	-3.62	20523.690	4.0	31280.350	5.0
929.4232	24.00	-2.18	20523.940	5.0	31280.350	5.0
929.4507	26.00	-1.44	40594.413	4.0	51350.505	4.0
929.4534	23.00	-2.45	15724.220	3.5	26480.280	3.5
929.4940	28.01	-3.27	104081.040	4.5	114836.630	3.5
929.5019	8.01	-3.66	255172.500	1.5	265928.000	1.5
929.5087	24.00	-3.75	48661.590	3.0	59417.010	3.0
929.5139	22.00	-3.19	38159.710	3.0	48915.070	2.0
929.5165	7.01	-2.98	210301.680	3.0	221057.010	2.0
929.5623	13.01	-2.01	139588.700	3.0	150343.500	2.0
929.5623	13.01	-3.44	139588.700	3.0	150343.500	3.0
929.5623	13.01	-4.87	139588.700	3.0	150343.500	4.0
929.5623	13.01	-2.37	139588.700	4.0	150343.500	3.0
929.5623	13.01	-1.44	139588.700	4.0	150343.500	3.0
929.5623	13.01	-3.30	139588.700	4.0	150343.500	4.0
929.5623	13.01	-3.44	139588.700	4.0	150343.500	4.0
929.5623	13.01	-1.78	139588.700	5.0	150343.500	4.0
929.6004	25.00	-4.92	51546.270	4.5	62300.630	4.5
929.6046	20.02	-4.28	382798.500	4.0	393552.810	3.0
929.6142	25.01	-3.13	71390.140	3.0	82144.340	3.0
929.6448	28.00	-.93	45418.858	2.0	56172.704	3.0
929.6479	20.02	-3.65	382798.500	4.0	393552.310	4.0
929.6539	28.01	-3.73	121042.520	1.5	131796.260	2.5
929.6583	28.01	-4.29	121042.570	1.5	131796.260	2.5
929.6718	26.00	-4.07	33412.706	3.0	44166.240	3.0
929.6868	20.02	-1.96	382798.500	4.0	393551.860	5.0
929.7101	26.00	-1.88	38175.332	3.0	48928.423	2.0
929.7335	7.01	-1.93	210301.680	3.0	221054.500	3.0
929.7369	26.02	-3.00	190413.570	4.0	201166.350	3.0
929.7387	28.01	-4.08	66579.710	1.5	77332.470	2.5
929.7395	28.01	-3.13	120189.550	.5	130942.300	1.5
929.7404	10.01	.62	291495.040	2.5	302247.780	3.5
929.7448	26.00	-3.65	36940.600	2.0	47693.289	3.0
929.7568	28.01	-4.93	122175.420	2.5	132927.970	1.5
929.7570	26.00	-2.39	41018.029	2.0	51770.577	3.0
929.7590	22.00	-4.84	31205.985	3.0	41958.510	2.0
929.8001	23.00	-3.95	20789.130	2.5	31541.180	3.5
929.8018	25.00	-4.04	51638.170	2.5	62390.200	1.5
929.8632	28.00	-1.18	45122.460	1.0	55873.780	2.0
929.8709	17.00	-1.86	85244.330	.5	95995.561	.5
929.9030	24.01	-4.45	53051.550	1.5	63802.410	.5
929.9918	22.00	-4.54	18911.399	2.0	29661.232	1.0
930.0064	28.00	-.99	42954.234	2.0	53703.899	1.0
930.0353	18.01	-1.93	203918.150	1.5	214667.480	2.5
930.0362	21.00	-.31	31172.620	1.5	41921.940	1.5
930.0561	25.00	-3.52	51546.270	4.5	62295.360	5.5
930.0682	28.01	-3.12	97799.660	1.5	108548.610	1.5
930.1167	25.00	-4.64	51546.270	4.5	62294.660	3.5
930.1314	28.01	-.51	121180.550	5.5	131928.770	4.5
930.1461	22.00	-3.85	37976.780	2.0	48724.830	1.0
930.1513	28.01	-1.63	119913.330	4.5	130661.320	5.5
930.1591	15.00	-4.59	65157.200	2.5	75905.100	2.5
930.1670	26.00	-3.62	42991.680	5.0	53739.488	5.0
930.1885	22.00	-2.64	37976.780	2.0	48724.340	2.0
930.1972	9.01	-4.45	254541.410	4.0	265288.870	3.0
930.2231	23.00	-1.63	26480.280	3.5	37227.440	2.5
930.2560	10.01	-.09	302057.260	.5	312804.040	1.5
930.2799	26.00	-4.98	33765.291	2.0	44511.795	2.0
930.3184	25.01	-3.23	71390.140	3.0	82136.200	4.0
930.3191	26.00	-2.88	43022.969	4.0	53769.020	4.0
930.3365	21.00	-2.58	25584.640	2.5	36330.490	2.5
930.3495	13.01	-3.86	132213.200	1.0	142958.900	1.0
930.3868	26.02	-3.54	188955.560	3.0	199700.830	4.0
930.3902	18.01	-2.15	173347.830	1.5	184093.060	.5
930.4015	21.00	-.22	31215.760	2.5	41960.860	2.5
930.4084	27.00	-4.85	43537.710	1.5	54282.730	2.5
930.4508	28.01	-1.86	110573.360	2.5	121317.890	3.5
930.4872	14.01	-2.62	112394.820	1.5	123138.930	1.5
930.4924	15.00	-.27	56090.450	1.5	66834.500	1.5
930.5011	14.01	-1.67	112394.980	2.5	123138.930	1.5
930.5075	22.00	-2.31	25388.334	4.0	36132.210	4.0
930.5141	8.01	.37	254895.200	2.5	265639.000	3.5
930.5583	18.01	.03	198594.920	3.5	209338.210	3.5
930.5729	28.01	-2.82	120199.180	1.5	130942.300	1.5
930.5842	26.01	-3.58	54063.530	.5	64806.520	.5
930.5877	18.01	-3.17	198594.920	3.5	209337.870	4.5
930.6059	9.01	-3.96	254546.130	4.0	265288.870	3.0
930.7055	24.00	-4.78	37244.170	4.0	47985.760	5.0
930.7082	10.00	-3.65	162517.872	1.0	173259.430	1.0
930.7202	28.01	-1.16	109148.050	4.5	119889.470	5.5
930.7306	15.00	-2.06	69852.800	.5	80594.100	1.5
930.7675	26.00	-3.84	43325.946	3.0	54066.821	2.0
930.7892	26.00	-4.43	43325.946	3.0	54066.570	4.0
930.8216	21.00	-.05	31275.320	3.5	42015.570	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
930.8676	23.00	-1.22	26249.480	1.5	36989.200	2.5
930.8953	8.02	.01	439427.600	3.0	450167.000	3.0
930.9297	9.00	-1.94	117872.916	1.5	128611.920	1.5
930.9360	25.01	-3.63	32818.100	0.0	43557.030	1.0
930.9464	28.01	-2.64	120203.490	2.5	130942.300	1.5
930.9794	28.01	-2.37	121190.340	4.5	131928.770	4.5
931.0045	27.00	-3.86	23207.760	1.5	33945.900	2.5
931.0265	14.00	-1.60	50566.397	1.0	61304.283	2.0
931.0383	18.00	-2.96	113643.260	1.0	124381.010	2.0
931.0505	28.01	-4.73	122790.410	4.5	133528.020	3.5
931.0697	10.00	-3.93	162517.872	1.0	173255.260	0.0
931.0730	18.01	-3.87	172213.800	1.5	182951.150	.5
931.1268	28.01	-3.59	122175.420	2.5	132912.150	2.5
931.1450	25.00	-1.01	45754.270	3.5	56490.790	2.5
931.1463	26.00	-1.90	41018.029	2.0	51754.534	1.0
931.1545	28.01	-4.84	57420.160	2.5	68156.570	1.5
931.2031	20.01	-.89	72722.230	1.5	83458.080	2.5
931.2040	22.00	-3.64	34327.960	1.0	45063.800	2.0
931.2257	14.01	-1.35	113760.410	3.5	124496.000	2.5
931.2404	14.01	-2.65	113760.580	2.5	124496.000	2.5
931.2404	14.01	-1.50	113760.580	2.5	124496.000	1.5
931.2433	22.00	-1.11	26803.417	2.0	37538.804	2.0
931.3185	28.01	-3.85	118563.390	3.5	129297.910	3.5
931.3263	25.00	-4.94	51560.930	5.5	62295.360	5.5
931.3462	21.00	.15	31350.810	4.5	42085.010	4.5
931.3463	13.01	-.06	138518.700	2.0	149252.900	3.0
931.3506	23.00	-1.99	26249.480	1.5	36983.630	1.5
931.3506	18.01	-1.53	198604.060	4.5	209338.210	3.5
931.3523	28.01	-1.71	120166.520	1.5	130900.650	2.5
931.3645	24.00	-2.83	23163.270	0.0	33897.260	1.0
931.3800	18.01	.11	198604.060	4.5	209337.870	4.5
931.3810	23.00	-3.16	15270.420	1.5	26004.220	2.5
931.4174	20.02	-.50	362893.470	2.0	373626.850	2.0
931.4279	22.00	-3.74	31373.801	3.0	42107.060	4.0
931.4352	9.00	.07	117872.916	1.5	128606.090	2.5
931.4399	18.00	-2.79	113643.260	1.0	124376.380	1.0
931.4512	27.00	-4.70	40827.770	1.5	51560.760	2.5
931.4625	27.00	-3.97	41969.900	.5	52702.760	1.5
931.4891	26.00	-3.58	34328.733	3.0	45061.287	3.0
931.4938	20.02	-.35	359800.570	3.0	370533.070	4.0
931.5432	23.01	-4.03	62176.240	4.0	72908.170	3.0
931.5632	27.00	-4.98	44658.030	1.5	55389.730	1.5
931.5650	18.01	-1.40	201345.220	1.5	212076.900	2.5
931.5736	28.01	-2.26	122086.580	3.5	132818.160	4.5
931.5806	10.01	-1.87	281720.280	1.5	292451.780	1.5
931.5875	21.00	-.87	25014.150	2.5	35745.570	2.5
931.5893	29.01	-4.37	135484.300	0.0	146215.700	1.0
931.6222	28.01	-3.28	100389.520	2.5	111120.540	1.5
931.6248	24.00	-3.05	35618.510	1.0	46349.500	2.0
931.6441	9.00	-3.61	117391.950	.5	128122.719	1.5
931.6500	23.00	-2.26	26344.940	4.5	37075.640	4.5
931.6795	24.00	-4.02	37244.170	4.0	47974.530	3.0
931.7065	26.01	-3.25	50157.610	4.5	60887.660	5.5
931.7594	18.01	-4.08	196089.870	2.5	206819.310	3.5
931.8119	26.00	-1.48	39969.830	3.0	50698.666	2.0
931.8150	29.01	-.65	137913.800	1.0	148642.600	2.0
931.8220	14.00	-.89	49188.617	2.0	59917.336	2.0
931.8758	17.01	-3.37	128621.900	1.0	139350.000	1.0
931.8923	28.01	-3.97	105439.850	1.5	116167.760	1.5
931.9019	15.00	-1.46	69894.600	1.5	80622.400	2.5
931.9271	27.00	-2.01	43555.220	3.5	54282.730	2.5
931.9584	20.01	-.74	72730.930	2.5	83458.080	3.5
931.9584	20.01	-2.04	72730.930	2.5	83458.080	2.5
932.0018	9.02	-4.74	431967.930	.5	442694.580	1.5
932.0566	9.01	-3.88	254541.350	5.0	265267.370	4.0
932.0618	9.01	-4.76	254541.410	4.0	265267.370	4.0
932.0626	18.01	-1.92	200880.520	3.5	211606.470	3.5
932.0653	20.01	-1.95	78164.720	4.5	88890.640	4.5
932.0653	20.01	-.22	78164.720	4.5	88890.640	5.5
932.0653	20.01	-.31	78164.720	3.5	88890.640	4.5
932.0705	6.00	-2.30	78148.090	2.0	88873.950	2.0
932.0731	9.02	-4.71	380250.520	2.5	390976.350	1.5
932.1121	24.00	-2.66	35572.940	2.0	46298.320	1.0
932.1147	18.01	-2.69	201351.550	2.5	212076.900	2.5
932.1539	29.01	-2.29	135834.900	4.0	146559.800	4.0
932.1695	25.00	-3.33	41403.930	2.5	52128.650	2.5
932.1818	26.00	-2.77	43022.969	4.0	53747.547	3.0
932.2173	28.01	-4.40	122144.990	2.5	132869.160	3.5
932.2416	18.01	-3.52	189414.960	3.5	200138.850	3.5
932.2756	8.02	-.80	428606.000	2.0	439329.500	2.0
932.3547	15.00	-3.05	56090.450	1.5	66813.040	1.5
932.3712	13.01	-1.54	139588.700	4.0	150311.100	3.0
932.3712	13.01	-2.33	139588.700	4.0	150311.100	3.0
932.3712	13.01	-3.31	139588.700	3.0	150311.100	3.0
932.3775	26.00	-2.79	40257.300	5.0	50979.627	4.0
932.3895	14.02	-.12	165765.000	2.0	176487.190	1.0
932.4007	26.00	-4.63	43108.899	4.0	53830.960	3.0
932.4116	26.00	-1.95	41018.029	2.0	51739.964	2.0
932.4321	29.01	-4.31	135834.900	4.0	146556.600	3.0
932.4442	23.00	-.89	26505.880	2.5	37227.440	2.5
932.4689	26.00	-2.94	47092.693	3.0	57813.970	3.0
932.4834	28.01	-3.67	118563.390	3.5	129284.500	2.5
932.4895	27.00	-2.41	43537.710	1.5	54258.750	2.5
932.5025	26.02	-4.20	219471.970	4.0	230192.860	3.0
932.5130	25.00	-.82	46901.130	2.5	57621.900	1.5
932.5208	23.00	-2.20	26437.680	1.5	37158.360	1.5
932.5236	22.00	-4.24	8602.340	2.0	19322.988	2.0
932.5251	25.01	-3.21	32836.400	1.0	43557.030	1.0
932.5391	26.02	-3.84	189784.520	2.0	200504.990	3.0
932.5582	18.01	-1.32	201351.550	2.5	212071.800	3.5
932.5773	7.01	-1.11	203537.660	1.0	214257.690	1.0
932.5817	15.00	-1.92	67113.820	2.5	77833.800	1.5
932.6139	10.01	-1.76	302750.810	3.5	313470.420	2.5
932.6313	28.01	-2.48	120222.890	1.5	130942.300	1.5
932.6391	23.00	-1.24	26397.360	.5	37116.680	.5
932.6600	10.01	-.33	302750.810	3.5	313469.890	3.5
932.7453	8.01	-.69	255140.900	1.5	265859.000	.5
932.7549	12.01	-1.72	103689.890	3.5	114407.880	3.5
932.7549	12.01	-.18	103689.890	3.5	114407.880	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
932.7549	12.01	-.29	103689.890	2.5	114407.880	3.5
932.7836	10.01	.64	292033.150	2.5	302750.810	3.5
932.7845	26.00	-2.71	36975.640	3.0	47693.289	3.0
932.8027	18.00	-4.21	114147.750	1.0	124865.190	2.0
932.8115	22.00	-4.98	31184.021	1.0	41901.360	1.0
932.8131	23.00	-.35	26604.770	3.5	37322.090	3.5
932.8549	22.00	-4.06	35527.760	1.0	46244.600	2.0
932.8601	26.00	-4.83	40491.260	0.0	51208.040	1.0
932.8767	25.00	-4.00	51638.170	2.5	62354.760	1.5
932.8829	26.00	-3.36	43022.969	4.0	53739.488	5.0
932.8845	13.01	-1.12	138536.400	3.0	149252.900	3.0
932.8845	13.01	-.16	138536.400	3.0	149252.900	4.0
932.8845	13.01	-.35	138536.400	3.0	149252.900	4.0
932.9019	14.02	-.08	243868.500	3.0	254584.800	4.0
932.9193	14.02	-.18	243868.500	3.0	254584.600	4.0
932.9263	27.00	-1.30	42988.120	3.5	53704.140	2.5
932.9733	24.00	-2.84	31364.330	3.0	42079.810	4.0
932.9934	26.00	-3.26	43210.011	2.0	53925.260	1.0
933.0221	9.02	-.06	431432.270	1.5	442147.190	2.5
933.0273	10.01	-3.74	312810.670	4.5	323525.530	4.5
933.0299	10.01	-4.68	312810.670	4.5	323525.500	5.5
933.0334	20.02	-.95	359800.570	3.0	370515.360	3.0
933.0334	10.01	-3.39	312810.710	5.5	323525.500	5.5
933.0342	26.00	-4.91	44664.061	2.0	55378.842	2.0
933.0595	6.00	-4.51	78199.070	2.0	88913.560	2.0
933.1013	27.00	-4.24	42988.120	3.5	53702.130	3.5
933.1066	18.01	-.28	189437.690	.5	200151.640	1.5
933.1127	10.01	-4.89	312811.650	3.5	323525.530	4.5
933.1127	10.01	-3.81	312811.650	4.5	323525.530	4.5
933.1257	17.00	-3.66	87979.490	3.5	98693.220	2.5
933.1371	15.04	.78	435100.400	1.5	445814.000	2.5
933.1371	15.04	-.17	435100.400	1.5	445814.000	1.5
933.1438	17.00	-2.25	87979.490	3.5	98693.013	3.5
933.1475	26.00	-4.10	44166.240	3.0	54879.720	2.0
933.1484	18.00	-2.66	113643.260	1.0	124356.730	2.0
933.1503	28.00	-3.98	47030.148	3.0	57743.596	3.0
933.1693	27.00	-4.12	44183.340	4.5	54896.570	3.5
933.1806	13.01	.51	123468.100	3.0	134181.200	4.0
933.1806	13.01	.73	123468.100	3.0	134181.200	4.0
933.1806	13.01	-2.91	123468.100	3.0	134181.200	3.0
933.1910	29.01	-.95	110365.980	2.0	121078.960	3.0
933.1963	18.01	-.77	200880.520	3.5	211593.440	4.5
933.1980	25.00	-2.86	35041.370	3.5	45754.270	3.5
933.2241	29.01	-2.00	137649.100	2.0	148361.700	1.0
933.2721	24.00	-4.68	37205.880	3.0	47917.930	2.0
933.2973	10.01	-4.63	312811.650	3.5	323523.410	2.5
933.3287	18.00	-1.78	113426.050	2.0	124137.450	2.0
933.3313	29.01	-3.88	135863.930	1.0	146575.300	2.0
933.3426	29.01	-2.64	123016.630	3.0	133727.870	2.0
933.3426	18.00	-.49	113426.050	2.0	124137.290	3.0
933.3579	22.00	-4.33	31205.985	3.0	41917.050	4.0
933.3686	22.00	-4.14	37617.868	4.0	48328.810	4.0
933.3872	22.00	-3.89	31190.631	2.0	41901.360	1.0
933.3984	28.01	-1.50	94729.250	2.5	105439.850	1.5
933.4008	26.00	-4.73	40257.300	5.0	50967.873	6.0
933.4080	26.02	-4.06	199700.830	4.0	210411.320	5.0
933.4568	26.02	-4.41	218860.430	2.0	229570.360	2.0
933.4777	18.00	-2.74	113426.050	2.0	124135.740	3.0
933.4795	18.00	-1.26	114147.750	1.0	124857.420	2.0
933.4890	23.00	-3.71	15770.720	4.5	26480.280	3.5
933.4926	18.00	-2.49	114147.750	1.0	124857.270	1.0
933.4987	9.02	-4.86	376814.020	2.5	387523.470	3.5
933.5227	26.00	-3.89	40894.972	2.0	51604.146	3.0
933.5410	26.00	-4.22	42859.756	2.0	53568.720	2.0
933.5562	24.00	-4.58	37233.500	5.0	47942.290	6.0
933.5963	28.01	-4.56	118563.390	3.5	129271.720	3.5
933.5971	18.01	-1.10	191012.350	1.5	201720.670	1.5
933.6538	28.00	-2.80	51124.800	3.0	61832.470	4.0
933.6817	9.02	-1.75	442636.270	3.5	453343.620	2.5
933.7096	27.00	-4.18	40345.950	2.5	51052.980	3.5
933.7602	27.00	-1.98	42988.120	3.5	53694.570	3.5
933.7620	22.00	-3.58	15220.390	5.0	25926.820	4.0
933.7788	22.00	-4.33	37622.573	3.0	48328.810	4.0
933.7838	21.00	-.90	31215.760	2.5	41921.940	1.5
933.8099	22.00	-1.12	36132.210	4.0	46838.090	4.0
933.8120	20.00	-2.11	36731.615	1.0	47437.471	0.0
933.8221	23.00	-3.67	33360.310	3.5	44066.050	3.5
933.8352	18.01	-3.05	200880.520	3.5	211586.110	2.5
933.8788	24.01	-4.43	54678.950	4.5	65384.040	4.5
933.8893	28.01	-2.33	118774.760	.5	129479.730	1.5
933.9304	10.01	-2.57	312810.670	4.5	323515.170	3.5
933.9521	29.01	-1.48	108335.430	2.0	119039.680	2.0
933.9565	26.02	-2.70	188013.400	4.0	198717.600	4.0
933.9931	26.02	-4.57	199700.830	4.0	210404.610	4.0
934.0149	27.00	-2.73	43555.220	3.5	54258.750	2.5
934.0158	10.01	-3.27	312811.650	3.5	323515.170	3.5
934.0189	22.00	-3.75	18192.577	6.0	28896.062	5.0
934.0542	10.00	-1.82	161509.630	0.0	172212.710	1.0
934.0542	12.01	-1.96	103705.660	4.5	114408.740	4.5
934.0542	12.01	-.23	103705.660	4.5	114408.740	5.5
934.0542	12.01	-.32	103705.660	3.5	114408.740	4.5
934.0551	27.00	-1.65	44201.920	2.5	54904.990	2.5
934.0551	14.01	-2.01	112394.820	1.5	123097.890	.5
934.0580	18.00	-4.74	104102.144	1.0	114805.180	2.0
934.0760	10.01	-4.99	312810.670	4.5	323513.500	3.5
934.1109	23.00	-.04	26738.310	4.5	37440.740	4.5
934.1171	10.01	-3.30	312810.670	4.5	323513.030	4.5
934.1205	10.01	-2.43	312810.710	5.5	323513.030	4.5
934.1344	26.00	-3.63	47271.999	1.0	57974.160	2.0
934.1575	26.00	-4.79	48122.913	3.0	58824.810	2.0
934.1616	24.00	-3.72	31377.960	4.0	42079.810	4.0
934.1616	10.01	-4.28	312811.650	3.5	323513.500	3.5
934.1616	10.01	-2.51	312811.650	4.5	323513.500	3.5
934.2026	10.01	-4.74	312811.650	3.5	323513.030	4.5
934.2026	10.01	-3.78	312811.650	4.5	323513.030	4.5
934.2148	9.01	-3.44	269548.970	3.0	280250.210	2.0
934.2332	22.00	-4.98	33680.130	3.0	44381.160	4.0
934.2786	20.02	-1.80	382852.300	2.0	393552.810	3.0
934.2969	18.01	-3.93	196119.020	3.5	206819.320	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
934.2986	27.00	-1.85	44568.470	2.5	55268.750	3.5
934.3075	26.00	-2.75	37521.144	2.0	48221.323	1.0
934.3363	26.00	-1.71	40594.413	4.0	51294.262	3.0
934.3667	15.00	-2.20	69894.600	1.5	80594.100	1.5
934.3928	14.00	-2.92	48102.323	2.0	58801.524	1.0
934.4462	10.01	-2.68	312824.820	3.5	323523.410	2.5
934.4480	10.01	-3.95	312824.840	2.5	323523.410	2.5
934.4812	25.01	-3.20	32858.840	2.0	43557.030	1.0
934.4812	18.01	.55	204133.980	2.5	214832.170	3.5
934.4932	2.01	.57	421353.130	0.0	432054.117	0.0
934.4978	27.00	-3.46	22475.360	4.5	33173.360	3.5
934.5013	25.00	-4.01	33825.490	2.5	44523.450	3.5
934.5074	12.01	-3.93	103705.660	3.5	114403.550	3.5
934.5074	12.01	-2.39	103705.660	4.5	114403.550	3.5
934.5074	12.01	-2.50	103705.660	3.5	114403.550	2.5
934.5170	10.01	-1.78	280797.260	2.5	291495.040	2.5
934.5240	8.01	-1.49	255301.300	2.5	265999.000	3.5
934.5851	27.00	-6.36	14036.280	1.5	24733.280	2.5
934.6149	10.01	-2.93	313744.530	3.5	324441.190	2.5
934.6253	10.01	-4.36	313744.530	3.5	324441.070	3.5
934.6297	10.01	-2.82	313744.580	4.5	324441.070	3.5
934.6376	8.01	-.12	255162.600	.5	265859.000	.5
934.6454	24.00	-4.47	48661.590	3.0	59357.900	2.0
934.6454	27.00	-4.21	40345.950	2.5	51042.260	2.5
934.6626	26.00	-3.97	44183.607	2.0	54879.720	2.0
934.6937	22.00	-3.72	25317.813	1.0	36013.570	2.0
934.7240	19.00	-2.31	21534.700	2.5	32230.110	1.5
934.7416	22.00	-2.40	31489.451	4.0	42184.660	4.0
934.7765	17.00	-4.33	91538.500	1.5	102233.310	2.5
934.7878	10.00	-4.53	161592.120	3.0	172286.800	2.0
934.7878	10.00	-4.53	161592.120	3.0	172286.800	2.0
934.8700	28.01	-3.06	122175.420	2.5	132869.160	3.5
934.8709	27.00	-3.00	43242.950	2.5	53936.680	2.5
934.8735	13.01	-2.92	138559.200	4.0	149252.900	3.0
934.8735	13.01	-1.35	138559.200	4.0	149252.900	4.0
934.8735	13.01	-1.49	138559.200	4.0	149252.900	4.0
934.8735	13.01	.17	138559.200	4.0	149252.900	5.0
934.8921	26.00	-2.48	43137.472	3.0	53830.960	3.0
934.9251	19.00	-3.26	21537.000	1.5	32230.110	1.5
934.9575	25.00	-3.15	34463.370	1.5	45156.110	2.5
934.9854	28.01	-4.94	105499.050	3.5	116191.470	2.5
934.9959	29.01	-3.85	137938.900	4.0	148631.200	3.0
935.0117	21.00	-1.53	25584.640	2.5	36276.760	1.5
935.0152	10.01	-2.39	312833.450	5.5	323525.530	4.5
935.0178	10.01	-4.20	312833.450	5.5	323525.500	5.5
935.0196	10.01	-2.32	312833.470	6.5	323525.500	5.5
935.0350	10.00	-4.52	161590.346	4.0	172282.200	3.0
935.0350	10.00	-4.52	161590.346	4.0	172282.200	3.0
935.0440	26.00	-1.07	36686.159	4.0	47377.909	4.0
935.0537	23.01	-4.38	44657.990	2.0	55349.630	3.0
935.0606	9.02	-2.24	444957.110	1.5	455648.670	1.5
935.0860	23.01	-7.48	26839.820	3.0	37531.090	4.0
935.0912	10.01	-.11	292546.700	.5	303237.910	1.5
935.0930	28.01	-3.05	99154.810	4.5	109846.000	3.5
935.1088	28.01	-1.58	106133.140	1.5	116824.150	2.5
935.1288	18.01	-1.96	185624.730	3.5	196315.510	2.5
935.1367	28.01	-4.17	122837.330	4.5	133528.020	3.5
935.1586	19.00	-2.57	21537.000	1.5	32227.440	.5
935.1665	10.01	-3.70	312824.820	3.5	323515.170	3.5
935.1682	10.01	-4.34	312824.840	2.5	323515.170	3.5
935.2146	29.01	-3.55	118163.500	2.0	128853.300	2.0
935.2146	29.01	-4.12	135733.600	3.0	146423.400	4.0
935.2427	22.00	-4.89	15108.121	3.0	25797.600	3.0
935.2855	26.02	-3.66	189011.840	4.0	199700.830	4.0
935.3126	10.01	-3.46	312824.820	3.5	323513.500	3.5
935.3205	22.01	-3.72	56249.110	1.5	66937.700	2.5
935.3252	10.00	-1.98	161524.174	1.0	172212.710	1.0
935.3252	10.00	-1.47	161524.174	1.0	172212.710	2.0
935.3538	9.02	-4.84	432060.640	1.5	442748.850	2.5
935.3538	10.01	-4.58	312824.820	3.5	323513.030	4.5
935.3695	6.00	-2.44	78148.090	2.0	88836.120	3.0
935.3835	28.01	-1.83	121240.900	3.5	131928.770	4.5
935.3853	22.00	-4.04	31184.021	1.0	41871.870	2.0
935.3861	23.00	-3.69	15664.750	1.5	26352.590	2.5
935.4125	22.00	-4.06	31184.021	1.0	41871.560	0.0
935.4158	17.01	-4.26	128662.500	2.0	139350.000	1.0
935.4215	18.00	-1.61	95399.870	1.0	106087.305	1.0
935.4526	22.00	-2.27	34170.950	0.0	44858.030	1.0
935.4576	26.00	-1.52	41018.029	2.0	51705.052	2.0
935.4736	24.00	-4.96	44299.980	2.0	54986.820	3.0
935.4859	8.01	-1.70	255301.300	2.5	265988.000	2.5
935.5034	8.01	-4.18	255172.500	1.5	265859.000	.5
935.5226	9.01	-1.86	269563.930	2.0	280250.210	2.0
935.5874	21.00	-.77	31275.320	3.5	41960.860	2.5
935.5918	27.00	-4.72	44480.140	2.5	55165.630	2.5
935.6391	28.01	-2.28	109148.050	4.5	119833.000	5.5
935.6750	24.00	-2.66	46688.240	3.0	57372.780	4.0
935.6925	24.00	-2.73	46704.980	5.0	57389.320	6.0
935.6995	27.00	-2.52	21780.470	5.5	32464.730	4.5
935.7065	24.00	-2.62	46677.060	2.0	57361.240	3.0
935.7486	8.01	-.27	255301.300	2.5	265985.000	3.5
935.8107	18.01	-2.42	203501.800	2.5	214184.790	3.5
935.8327	21.00	-.93	15041.980	3.5	25724.720	3.5
935.8402	26.00	-4.35	24574.655	4.0	35257.309	4.0
935.8458	20.01	-3.81	78164.720	3.5	88847.310	3.5
935.8458	20.01	-2.27	78164.720	4.5	88847.310	3.5
935.8458	20.01	-2.38	78164.720	3.5	88847.310	2.5
935.8887	29.01	-1.02	135733.600	3.0	146415.700	2.0
935.9419	26.00	-4.74	20641.110	4.0	31322.603	3.0
935.9439	10.01	-.80	302750.810	3.5	313432.280	3.5
935.9474	26.00	-4.18	47590.070	4.0	58271.500	5.0
935.9527	28.01	-4.86	99340.550	3.5	110021.920	4.5
935.9547	26.00	-3.28	40421.890	4.0	51103.237	5.0
936.0026	28.01	-1.94	98467.250	3.5	109148.050	4.5
936.0035	23.01	-5.63	26839.820	3.0	37520.610	3.0
936.0132	10.01	.76	302750.810	3.5	313431.490	4.5
936.0149	23.00	-3.09	26344.940	4.5	37025.600	3.5
936.0359	28.01	-4.93	122847.600	3.5	133528.020	3.5
936.0359	26.00	-2.55	47017.170	3.0	57697.590	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
936.0439	10.01	-4.54	312843.080	1.5	323523.410	2.5
936.0456	18.01	-.43	185624.730	3.5	196305.040	3.5
936.0477	22.00	-4.44	33700.874	4.0	44381.160	4.0
936.0500	10.01	-3.40	312843.150	2.5	323523.410	2.5
936.0570	17.00	-.89	91538.500	1.5	102218.680	2.5
936.0701	22.00	-2.68	38159.710	3.0	48839.740	3.0
936.0833	17.00	-1.59	91538.500	1.5	102218.380	1.5
936.0894	24.00	-3.75	35618.510	1.0	46298.320	1.0
936.1604	23.00	-.70	26437.680	1.5	37116.680	.5
936.1675	22.00	-2.55	31373.801	3.0	42052.720	3.0
936.1867	17.02	-3.98	195268.200	1.5	205946.900	2.5
936.2051	24.00	-2.67	23512.000	1.0	34190.490	2.0
936.2340	18.00	-1.82	114805.180	2.0	125483.340	2.0
936.2371	26.00	-3.52	18378.187	2.0	29056.312	3.0
936.2498	18.00	-3.17	114805.180	2.0	125483.160	3.0
936.2525	24.00	-1.49	46704.980	5.0	57382.930	5.0
936.2558	26.00	-2.38	47136.058	2.0	57813.970	3.0
936.2816	26.00	-4.81	43434.585	3.0	54112.203	2.0
936.2840	27.00	-2.83	44183.340	4.5	54860.930	4.5
936.2849	23.00	-3.48	15571.900	2.5	26249.480	1.5
936.2867	6.00	-4.19	78116.740	1.0	88794.300	2.0
936.2902	18.00	-.67	114805.180	2.0	125482.700	3.0
936.2937	10.01	-3.36	313480.200	3.5	324157.680	2.5
936.2963	28.01	-4.75	122140.710	4.5	132818.160	4.5
936.2993	22.00	-3.91	25388.334	4.0	36065.750	3.0
936.3735	9.01	-3.05	269573.640	1.0	280250.210	2.0
936.3972	26.02	-4.16	189024.530	5.0	199700.830	4.0
936.4445	29.01	-2.50	117883.140	4.0	128558.900	3.0
936.4796	28.01	-4.55	95332.530	2.5	106007.890	2.5
936.4946	9.02	-3.44	442694.580	1.5	453369.770	1.5
936.4947	26.00	-4.15	40894.972	2.0	51570.160	3.0
936.5217	6.00	-3.65	78199.070	2.0	88873.950	2.0
936.5507	24.00	-3.22	44534.460	4.0	55209.010	4.0
936.5726	7.01	-2.06	203537.660	1.0	214211.960	0.0
936.5893	6.00	-4.88	78116.740	1.0	88790.850	1.0
936.6139	28.01	-3.69	68281.620	.5	78955.450	1.5
936.6226	10.01	-1.66	291801.880	1.5	302475.610	.5
936.6349	24.00	-2.02	46677.060	2.0	57350.650	2.0
936.6744	24.00	-4.42	35501.260	3.0	46174.400	3.0
936.6770	27.00	-4.33	43263.570	1.5	53936.680	2.5
936.6858	23.00	-1.08	26352.590	2.5	37025.600	3.5
936.6867	24.00	-1.66	46688.240	3.0	57361.240	3.0
936.7139	18.01	-1.82	189437.690	.5	200110.380	.5
936.7209	28.01	-3.97	119315.440	2.5	129988.050	2.5
936.7481	24.00	-2.43	46678.350	1.0	57350.650	2.0
936.7657	8.02	-.07	428606.000	2.0	439278.100	1.0
936.7727	10.01	-4.89	312843.150	2.5	323515.170	3.5
936.7762	25.00	-2.69	51718.220	1.5	62390.200	1.5
936.8386	20.02	-1.33	360388.680	3.0	371059.950	3.0
936.8421	22.00	-3.20	34535.040	2.0	45206.270	3.0
936.8860	22.01	-3.52	56325.940	2.5	66996.670	3.5
936.9158	24.00	-3.34	31355.210	2.0	42025.600	3.0
936.9158	28.01	-4.04	118809.340	1.5	129479.730	1.5
936.9193	10.01	-4.86	312843.150	2.5	323513.500	3.5
936.9211	24.00	-4.23	44534.460	4.0	55204.790	3.0
936.9211	28.01	-2.45	120271.970	2.5	130942.300	1.5
936.9237	8.02	-2.37	370415.700	1.0	381086.000	1.0
936.9290	26.02	-4.41	218860.430	2.0	229530.670	1.0
937.0027	15.00	-1.98	69924.700	2.5	80594.100	1.5
937.0133	10.01	-1.91	302750.810	3.5	313420.090	2.5
937.0379	17.01	-1.37	139350.000	1.0	150019.000	0.0
937.0853	18.00	-3.45	113643.260	1.0	124311.720	1.0
937.1433	24.00	-2.38	46704.980	5.0	57372.780	4.0
937.1661	28.01	-2.01	110573.360	2.5	121240.900	3.5
937.1732	22.00	-4.30	35577.140	2.0	46244.600	2.0
937.1785	17.01	-2.77	150681.000	2.0	161348.400	1.0
937.2004	26.00	-2.89	40534.180	3.0	51201.330	2.0
937.2004	6.00	-4.05	78293.490	1.0	88960.640	0.0
937.2408	27.00	-1.93	43847.980	3.5	54514.670	3.5
937.2905	26.00	-4.95	20641.110	4.0	31307.235	4.0
937.3115	22.00	-4.21	31205.985	3.0	41871.870	2.0
937.3535	26.00	-4.02	47606.092	5.0	58271.500	5.0
937.4104	21.00	-.86	31350.810	4.5	42015.570	3.5
937.4139	27.00	-4.67	41969.900	.5	52634.620	.5
937.4166	18.01	-2.29	147503.020	1.5	158167.710	1.5
937.4271	28.01	-3.24	102742.740	1.5	113407.310	2.5
937.4421	18.00	-2.44	113716.610	3.0	124381.010	2.0
937.4500	29.01	-2.66	135910.990	2.0	146575.300	2.0
937.4895	14.02	-.49	204330.790	2.0	214994.650	1.0
937.4957	23.00	-2.85	15688.800	2.5	26352.590	2.5
937.5132	26.00	-3.94	24118.815	4.0	34782.406	5.0
937.5247	10.01	-4.86	318183.690	4.5	328847.150	3.5
937.5335	10.01	-1.54	318183.690	4.5	328847.050	4.5
937.5370	10.01	-.51	318183.730	5.5	328847.050	4.5
937.5467	24.00	-3.21	48824.500	4.0	59487.710	4.0
937.5749	10.01	-1.66	318184.260	3.5	328847.150	3.5
937.5757	10.01	-.60	318184.270	4.5	328847.150	3.5
937.5836	10.01	-3.13	318184.260	3.5	328847.050	4.5
937.5845	10.01	-2.26	318184.270	4.5	328847.050	4.5
937.6170	24.00	-2.56	46688.240	3.0	57350.650	2.0
937.6188	24.00	-3.00	46720.540	4.0	57382.930	5.0
937.6742	24.00	-3.09	46524.840	2.0	57186.600	3.0
937.6797	26.00	-4.24	43499.485	4.0	54161.182	3.0
937.7102	18.00	-3.14	114821.990	3.0	125483.340	2.0
937.7146	29.01	-2.97	135834.900	4.0	146496.200	3.0
937.7173	24.00	-4.03	31364.330	3.0	42025.600	3.0
937.7261	18.00	-1.89	114821.990	3.0	125483.160	3.0
937.7523	26.00	-4.63	44022.518	4.0	54683.390	4.0
937.7665	18.00	-1.90	114821.990	3.0	125482.700	3.0
937.7665	18.00	-.52	114821.990	3.0	125482.700	4.0
937.7762	24.00	-4.60	37205.880	3.0	47866.480	4.0
937.8132	24.00	-3.99	35398.020	4.0	46058.200	4.0
937.8184	26.00	-3.72	43108.899	4.0	53769.020	4.0
937.8211	23.00	-3.96	15270.420	1.5	25930.510	1.5
937.8440	14.00	-3.10	53362.240	3.0	64022.070	3.0
937.8519	6.00	-2.78	87218.260	2.0	97878.000	2.0
937.8554	8.01	-.70	255301.300	2.5	265961.000	2.5
937.8580	22.00	-1.20	36065.750	3.0	46725.420	3.0
937.8906	8.01	-2.65	265220.300	1.5	275879.600	2.5
937.8950	25.00	-4.15	57305.620	3.5	67964.870	2.5
937.9117	14.00	-4.42	53362.240	3.0	64021.300	2.0
937.9522	8.02	.24	428769.000	3.0	439427.600	3.0
937.9548	22.00	-3.86	38200.940	0.0	48859.510	1.0
937.9663	6.00	-2.41	78215.510	3.0	88873.950	2.0
937.9698	21.00	-1.04	14926.240	2.5	25584.640	2.5
937.9698	8.01	-.62	255104.600	2.5	265763.000	3.5
938.0164	14.00	-1.36	53362.240	3.0	64020.110	4.0
938.0376	24.00	-3.20	35640.690	0.0	46298.320	1.0
938.0427	22.00	-2.27	25438.898	2.0	36096.470	3.0
938.0578	8.01	-.87	255104.600	2.5	265762.000	1.5
938.0789	14.00	-3.44	53362.240	3.0	64019.400	3.0
938.0833	24.00	-4.79	33423.790	1.0	44080.900	2.0
938.1062	21.00	-1.98	25014.150	2.5	35671.000	1.5
938.1335	18.01	-3.16	198594.920	3.5	209251.460	3.5
938.1951	23.01	-4.50	62133.390	3.0	72789.230	3.0
938.2180	18.01	-1.62	199879.320	3.5	210534.900	4.5
938.2392	28.01	-3.06	122790.410	4.5	133445.750	4.5
938.2492	10.00	-4.47	162410.174	3.0	173065.400	2.0
938.2492	10.00	-4.47	162410.174	3.0	173065.400	2.0
938.2506	10.01	-2.66	318191.940	2.5	328847.150	3.5
938.2515	10.01	-4.12	318191.950	3.5	328847.150	3.5
938.2603	10.01	-2.55	318191.950	3.5	328847.050	4.5
938.2850	10.01	-.09	317663.130	1.5	328317.950	2.5
938.2929	26.00	-2.72	40207.120	3.0	50861.850	3.0
938.3184	28.01	-2.06	110573.360	2.5	121227.800	2.5
938.3395	26.00	-2.51	40207.120	3.0	50861.320	2.0
938.3502	17.00	-1.54	91564.300	.5	102218.380	1.5
938.3756	10.01	-1.19	306243.420	2.5	316897.210	3.5
938.3853	10.01	-.49	291202.030	3.5	301855.710	2.5
938.3897	18.01	-1.12	198594.920	3.5	209248.550	2.5
938.3959	27.00	-1.36	36092.440	2.5	46746.000	2.5
938.4064	10.01	-1.67	302816.980	1.5	313470.420	2.5
938.4245	17.00	-1.83	85244.330	.5	95897.565	1.5
938.4417	10.01	-.16	281998.280	2.5	292651.320	1.5
938.4911	23.00	-.54	26505.880	2.5	37158.360	1.5
938.4951	9.00	-.22	117872.916	1.5	128525.350	2.5
938.5043	25.00	-2.96	56356.210	3.5	67008.540	2.5
938.5122	24.00	-1.57	46720.540	4.0	57372.780	4.0
938.5281	24.00	-3.70	46448.600	1.0	57100.660	2.0
938.5369	27.00	-3.83	41982.660	1.5	52634.620	.5
938.5474	26.01	-4.14	54904.500	3.5	65556.340	4.5
938.5595	28.00	-1.53	33610.916	2.0	44262.619	2.0
938.6056	10.01	-1.24	302829.060	4.5	313480.240	4.5
938.6091	10.01	-2.15	302829.060	4.5	313480.200	3.5
938.6109	28.01	-4.13	118828.610	2.5	129479.730	1.5
938.6153	24.00	-2.27	36577.730	4.0	47228.800	5.0
938.6715	20.00	-4.40	36731.615	1.0	47382.048	1.0
938.6775	9.00	-.96	117872.916	1.5	128523.280	1.5
938.6797	6.00	-4.50	78731.270	1.0	89381.610	0.0
938.6805	7.00	.07	86137.320	.5	96787.650	1.5
938.6832	10.01	-4.58	318196.750	5.5	328847.050	4.5
938.7078	25.00	-4.46	34343.900	4.5	44993.920	3.5
938.7334	14.00	-4.03	50054.800	4.0	60704.530	3.0
938.7387	26.01	-4.72	50157.610	4.5	60807.280	4.5
938.7519	24.00	-4.06	52012.440	2.0	62661.960	3.0
938.7731	28.01	-2.66	121146.980	2.5	131796.260	2.5
938.7775	28.01	-3.27	122080.250	2.5	132729.480	2.5
938.7792	7.01	-.52	210705.260	2.0	221354.470	2.0
938.7915	10.01	.20	302831.170	3.5	313480.240	4.5
938.7942	9.02	-4.40	442694.580	1.5	453343.620	2.5
938.7951	10.01	-.56	302831.170	3.5	313480.200	3.5
938.7977	26.02	-3.38	189011.840	4.0	199660.840	5.0
938.8118	26.00	-1.56	40231.312	2.0	50880.152	1.0
938.8269	22.00	-4.66	29818.310	3.0	40466.979	2.0
938.8383	27.00	-4.41	34133.590	3.5	44782.130	4.5
938.8418	8.01	-3.56	251220.900	3.5	261869.400	2.5
938.8771	25.01	-4.04	32836.400	1.0	43484.500	2.0
938.8815	26.02	-3.71	188955.560	3.0	199603.610	4.0
938.8841	24.00	-4.00	46448.600	1.0	57096.620	1.0
938.9053	18.01	-3.55	199879.320	3.5	210527.100	2.5
938.9274	10.01	-.66	303071.840	2.5	313719.370	2.5
938.9388	18.01	-1.06	198604.060	4.5	209251.460	3.5
938.9473	9.00	-1.46	117872.916	1.5	128520.220	.5
938.9486	26.00	-3.55	37046.000	4.0	47693.289	3.0
938.9494	26.02	-3.70	218923.080	3.0	229570.360	2.0
938.9609	10.01	.63	303071.840	2.5	313718.990	3.5
938.9615	22.00	-4.45	18141.229	5.0	28788.372	4.0
939.0058	28.01	-4.28	105499.050	3.5	116145.690	3.5
939.0094	8.01	-2.43	255281.400	.5	265928.000	1.5
939.0106	26.00	-4.23	40052.080	2.0	50698.666	2.0
939.0297	7.01	-1.41	210705.260	2.0	221351.630	1.0
939.0438	6.00	-3.33	78148.090	2.0	88794.300	2.0
939.0731	22.00	-2.00	26892.926	3.0	37538.804	2.0
939.0759	26.00	-4.18	33765.291	2.0	44411.137	1.0
939.0923	28.01	-4.41	118828.610	2.5	129474.270	3.5
939.0967	29.01	-4.37	135910.990	2.0	146556.600	3.0
939.1064	29.01	-.98	137913.800	1.0	148559.300	2.0
939.1240	8.01	-4.56	251224.100	2.5	261869.400	2.5
939.1505	14.01	-2.19	114177.400	3.5	124822.400	2.5
939.1509	26.00	-4.29	34636.820	2.0	45281.816	2.0
939.1558	14.01	-2.07	114177.400	4.5	124822.340	3.5
939.1558	14.01	-3.62	114177.400	3.5	124822.340	3.5
939.1779	28.01	-4.41	122084.790	1.5	132729.480	2.5
939.2793	7.00	.33	86220.480	1.5	96864.020	2.5
939.2802	9.01	-2.82	258930.110	2.0	269573.640	1.0
939.3358	28.01	-4.70	122086.580	3.5	132729.480	2.5
939.3402	12.01	-1.86	103689.890	2.5	114332.740	1.5
939.3420	14.00	-1.29	49399.670	1.0	60042.500	0.0
939.3455	12.01	-1.71	103689.890	3.5	114332.680	2.5
939.3455	12.01	-3.01	103689.890	2.5	114332.680	2.5
939.3482	6.00	-3.58	78148.090	2.0	88790.850	1.0
939.3676	9.02	-1.41	445006.130	2.5	455648.670	1.5
939.3860	17.00	-.67	72488.568	1.5	83130.900	1.5
939.4259	27.00	-6.38	14399.280	.5	25041.160	1.5
939.4414	26.00	-4.14	34692.130	1.0	45333.834	2.0
939.4809	22.00	-3.61	25317.813	1.0	35959.070	1.0
939.4848	28.00	-2.87	43933.428	2.0	54574.640	1.0
939.4894	25.00	-2.53	58075.060	5.5	68716.220	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
939.4929	29.01	-4.83	117928.480	1.0	128569.600	2.0
939.4929	18.01	-3.99	144709.910	.5	155351.030	1.5
939.5186	27.00	-1.72	45904.680	1.5	56545.510	2.5
939.5201	22.00	-3.77	15156.787	4.0	25797.600	3.0
939.5235	26.00	-3.89	43325.946	3.0	53966.720	2.0
939.5300	24.00	-2.35	46720.540	4.0	57361.240	3.0
939.5309	28.01	-3.21	98122.630	.5	108763.320	.5
939.5388	18.01	-1.63	192556.840	2.5	203197.440	3.5
939.5654	28.01	-3.08	109675.720	.5	120316.020	.5
939.5812	18.00	-3.36	113716.610	3.0	124356.730	2.0
939.5848	7.00	-.92	93581.520	.5	104221.600	1.5
939.6148	26.02	-3.16	188955.560	3.0	199595.300	3.0
939.6433	9.00	-4.89	128064.103	3.5	138703.520	2.5
939.6448	29.01	-3.68	138003.200	2.0	148642.600	2.0
939.6545	25.00	-4.17	35114.980	2.5	45754.270	3.5
939.6554	24.00	-3.87	52031.720	3.0	62671.000	4.0
939.6598	28.00	-4.10	47328.850	2.0	57968.080	3.0
939.6899	18.01	-2.42	189040.870	1.5	199679.760	2.5
939.6987	10.01	-2.19	306243.420	2.5	316882.210	2.5
939.7112	26.00	-3.82	43108.899	4.0	53747.547	3.0
939.7252	22.00	-3.76	37690.320	5.0	48328.810	4.0
939.7305	22.00	-4.29	34327.960	1.0	44966.390	1.0
939.7773	28.01	-3.13	119833.000	5.5	130470.900	4.5
939.7915	24.00	-2.33	36552.130	3.0	47189.870	4.0
939.8155	26.00	-3.29	34039.495	4.0	44676.963	4.0
939.8226	20.00	-1.39	38192.392	1.0	48829.780	1.0
939.8226	20.00	-1.99	38192.392	1.0	48829.780	2.0
939.8436	22.00	-1.17	36200.940	5.0	46838.090	4.0
939.8524	6.00	-4.90	78199.070	2.0	88836.120	3.0
939.8824	10.01	-2.46	302843.530	3.5	313480.240	4.5
939.8860	10.01	-1.73	302843.530	3.5	313480.200	3.5
939.8913	23.00	-2.16	26352.590	2.5	36989.200	2.5
939.8975	25.00	-2.42	51718.220	1.5	62354.760	1.5
939.9178	26.02	-3.98	189024.530	5.0	199660.840	5.0
939.9192	8.00	-4.79	102662.026	2.0	113298.320	1.0
939.9372	10.01	.07	302844.110	2.5	313480.200	3.5
939.9629	17.01	-2.13	151019.000	2.0	161654.800	1.0
939.9637	7.01	-2.95	178273.380	0.0	188909.170	1.0
939.9814	10.01	-4.89	281332.550	.5	291968.140	.5
939.9947	23.00	-3.79	27470.880	3.5	38106.320	2.5
940.0513	8.01	-3.41	265431.500	2.5	276066.300	1.5
940.0513	8.01	-3.08	265431.500	2.5	276066.300	2.5
940.0775	20.00	-2.71	37748.197	1.0	48382.700	2.0
940.0822	28.01	-3.07	121161.810	1.5	131796.260	2.5
940.0884	10.01	-.88	318183.690	4.5	328818.070	3.5
940.0977	22.00	-1.98	27025.652	4.0	37659.927	3.0
940.1059	26.00	-4.61	40594.413	4.0	51228.595	5.0
940.1078	24.00	-4.40	52012.440	2.0	62646.600	2.0
940.1131	28.01	-1.03	121294.670	4.5	131928.770	4.5
940.1250	14.00	-1.73	53387.334	1.0	64021.300	2.0
940.1388	10.01	-2.29	318184.260	3.5	328818.070	3.5
940.1397	10.01	-4.76	318184.270	4.5	328818.070	3.5
940.1406	10.01	-1.00	318184.260	3.5	328818.050	2.5
940.2122	18.01	-1.78	192712.000	1.5	203344.980	1.5
940.2165	10.01	.30	302829.060	4.5	313461.990	5.5
940.2183	10.01	-.53	302829.060	4.5	313461.970	4.5
940.2256	8.00	-4.11	102662.026	2.0	113294.854	2.0
940.2283	26.00	-4.53	43922.652	3.0	54555.450	4.0
940.2289	8.00	-4.93	102662.026	2.0	113294.816	3.0
940.2608	18.00	-3.15	113716.610	3.0	124349.040	3.0
940.2714	18.00	-.78	113426.050	2.0	124058.360	3.0
940.2836	20.00	-2.29	37751.867	2.0	48384.039	3.0
940.3307	14.00	-3.65	50566.397	1.0	61198.036	0.0
940.3384	26.00	-8.17	12560.933	3.0	23192.486	2.0
940.3388	26.00	-2.95	43137.472	3.0	53769.020	4.0
940.3749	10.01	-.36	302839.280	2.5	313470.420	2.5
940.3837	23.00	-4.01	26352.590	2.5	36983.630	1.5
940.3944	28.01	-2.44	122812.970	3.5	133443.890	2.5
940.3949	20.00	-3.01	37751.867	2.0	48382.781	3.0
940.4021	20.00	-3.84	37751.867	2.0	48382.700	2.0
940.4050	10.01	-2.98	302831.170	3.5	313461.970	4.5
940.4218	10.01	-1.12	302839.280	2.5	313469.890	3.5
940.4282	26.00	-4.81	40231.312	2.0	50861.850	3.0
940.4315	10.01	-3.06	281171.380	2.5	291801.880	1.5
940.5120	28.01	-4.25	100490.950	1.5	111120.540	1.5
940.5333	20.02	-.58	359543.080	4.0	370172.430	4.0
940.5527	28.01	-3.17	118874.110	3.5	129503.240	4.5
940.5547	14.00	-2.29	48264.292	3.0	58893.400	3.0
940.5563	27.00	-1.30	43847.980	3.5	54477.070	3.5
940.5731	6.00	.28	61981.820	1.0	72610.720	2.0
940.6005	10.01	-.35	292651.320	1.5	303279.910	2.5
940.6076	10.01	-1.78	302829.060	4.5	313457.570	3.5
940.6200	23.00	-3.76	15724.220	3.5	26352.590	2.5
940.6218	28.01	-3.88	121042.520	1.5	131670.870	2.5
940.6414	28.00	-3.46	47139.392	2.0	57767.520	1.0
940.6483	18.00	-4.69	113426.050	2.0	124054.100	3.0
940.6527	29.01	-3.53	138003.200	2.0	148631.200	3.0
940.6630	22.00	-2.82	11776.806	4.0	22404.690	3.0
940.6703	26.00	-4.15	42532.729	3.0	53160.530	3.0
940.6926	25.01	-2.84	32856.950	3.0	43484.500	2.0
940.7032	9.01	-2.47	229551.790	1.0	240179.220	0.0
940.7291	26.00	-3.74	37409.530	1.0	48036.667	2.0
940.7342	25.02	-2.53	181949.340	2.5	192576.420	2.5
940.7412	25.00	-1.20	45940.930	2.5	56567.930	1.5
940.7544	22.00	-3.49	25438.898	2.0	36065.750	3.0
940.7563	9.02	-3.51	455648.670	1.5	466275.500	2.5
940.7678	8.01	-2.39	255301.300	2.5	265928.000	1.5
940.7687	24.00	-3.93	52064.270	4.0	62690.960	5.0
940.7713	20.00	-2.11	37298.287	2.0	47924.947	3.0
940.7944	10.01	-2.49	302831.170	3.5	313457.570	3.5
940.7944	13.01	-.34	139286.800	2.0	149913.200	3.0
940.7970	10.01	-3.45	302831.170	3.5	313457.540	2.5
940.7997	28.01	-2.40	120316.020	.5	130942.360	1.5
940.8183	10.01	-2.72	318191.940	2.5	328818.070	3.5
940.8192	10.01	-1.27	318191.950	3.5	328818.070	3.5
940.8201	10.01	-1.39	318191.940	2.5	328818.050	2.5
940.8209	10.01	-2.70	318191.950	3.5	328818.050	2.5
940.8420	26.00	-4.06	32873.623	4.0	43499.485	4.0
940.8599	25.01	-3.27	32858.840	2.0	43484.500	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
940.8608	29.01	-3.26	135934.150	5.0	146559.800	4.0
940.8652	18.00	-1.49	113426.050	2.0	124051.650	2.0
940.8838	18.00	-2.69	113426.050	2.0	124051.440	3.0
940.8852	10.00	-3.42	161590.346	4.0	172215.720	3.0
940.8852	10.00	-1.87	161590.346	4.0	172215.720	4.0
940.8872	20.00	-2.38	37757.449	3.0	48382.801	4.0
940.8890	20.00	-3.44	37757.449	3.0	48382.781	3.0
940.8900	28.01	-3.21	121125.410	4.5	131750.730	3.5
940.8961	20.00	-4.99	37757.449	3.0	48382.700	2.0
940.9104	25.00	-3.48	56356.210	3.5	66981.300	3.5
940.9192	27.00	-4.92	44658.030	1.5	55283.020	2.5
940.9431	25.00	-4.46	52128.650	2.5	62753.370	2.5
940.9497	26.00	-2.52	40594.413	4.0	51219.059	3.0
940.9708	22.00	-.72	28788.372	4.0	39412.780	5.0
940.9963	28.01	-1.76	122821.630	5.5	133445.750	4.5
941.0077	10.01	-.50	291801.880	1.5	302425.870	1.5
941.0145	26.00	-1.61	41130.620	1.0	51754.534	1.0
941.0219	10.01	-.87	302192.920	4.5	312816.750	4.5
941.0290	10.01	.86	302192.920	4.5	312816.670	5.5
941.0340	20.00	-2.32	37298.287	2.0	47921.981	3.0
941.0370	9.02	-4.13	442147.190	2.5	452770.850	3.5
941.0423	10.00	-1.98	161592.120	3.0	172215.720	3.0
941.0423	10.00	-3.47	161592.120	3.0	172215.720	4.0
941.0747	10.00	-2.57	161590.346	4.0	172213.580	4.0
941.0747	10.00	-.93	161590.346	4.0	172213.580	5.0
941.0776	12.00	-3.74	47957.028	2.0	58580.230	1.0
941.1176	29.01	-3.89	135952.550	2.0	146575.300	2.0
941.1247	23.00	-.55	26604.770	3.5	37227.440	2.5
941.1485	26.00	-4.64	42532.729	3.0	53155.130	4.0
941.1566	24.00	-4.82	37244.170	4.0	47866.480	4.0
941.1708	26.02	-2.81	188955.560	3.0	199577.710	2.0
941.2308	12.00	-.40	47957.045	3.0	58578.518	4.0
941.2320	10.00	-1.02	161592.120	3.0	172213.580	4.0
941.2630	14.01	-.56	103556.290	3.5	114177.400	3.5
941.2630	14.01	.98	103556.290	3.5	114177.400	4.5
941.2639	8.01	-.13	255140.900	1.5	265762.000	1.5
941.2745	14.01	.87	103556.420	2.5	114177.400	3.5
941.2772	26.00	-3.70	43210.011	2.0	53830.960	3.0
941.2798	9.02	-4.51	442748.850	2.5	453369.770	1.5
941.2975	23.00	-4.33	15724.220	3.5	26344.940	4.5
941.3011	15.00	-3.33	67113.820	2.5	77734.500	2.5
941.3073	6.00	-4.03	78215.510	3.0	88836.120	3.0
941.3141	16.00	.52	67841.917	3.0	78462.450	4.0
941.3294	6.00	-2.36	78340.280	1.0	88960.640	0.0
941.3427	28.01	-1.68	118803.820	6.5	129424.030	5.5
941.3499	14.00	-.42	40991.884	1.0	51612.012	0.0
941.3551	6.00	-4.54	78293.490	1.0	88913.560	2.0
941.3560	10.01	.32	292451.780	1.5	303071.840	2.5
941.3988	26.00	-1.64	40842.130	3.0	51461.707	4.0
941.4012	17.00	-2.24	91906.790	2.5	102526.340	2.5
941.4083	17.00	-.94	91906.790	2.5	102526.260	3.5
941.4109	10.01	-1.32	306262.770	1.5	316882.210	2.5
941.4207	26.01	-2.73	50187.950	3.5	60807.280	4.5
941.4597	6.00	-4.63	78148.090	2.0	88766.980	1.0
941.4952	12.00	-1.63	47957.028	2.0	58575.518	2.0
941.4952	12.00	-2.41	47957.028	2.0	58575.518	3.0
941.4967	12.00	-3.01	47957.045	3.0	58575.518	2.0
941.4967	12.00	-1.83	47957.045	3.0	58575.518	3.0
941.4977	12.00	-.73	47957.056	1.0	58575.518	2.0
941.4979	12.00	-.58	47957.028	2.0	58575.487	3.0
941.4994	12.00	-1.70	47957.045	3.0	58575.487	3.0
941.4996	10.01	.19	302843.530	3.5	313461.970	4.5
941.5422	25.00	-1.37	58075.060	5.5	68693.020	5.5
941.5590	25.00	-3.47	52015.000	3.5	62632.770	3.5
941.5652	28.01	-2.03	121178.560	3.5	131796.260	2.5
941.5733	22.00	-2.89	31489.451	4.0	42107.060	4.0
941.5785	24.00	-2.18	44591.460	5.0	55209.010	4.0
941.6122	23.01	-3.13	44098.460	3.0	54715.630	2.0
941.6300	26.00	-3.23	47197.000	2.0	57813.970	3.0
941.6415	29.01	-3.32	135958.460	1.0	146575.300	2.0
941.6832	28.01	-2.38	120044.950	4.5	130661.320	5.5
941.6971	20.00	-.91	33317.264	0.0	43933.477	1.0
941.6974	23.00	-5.86	14514.750	1.5	25130.960	2.5
941.7195	12.00	-3.30	46403.065	2.0	57019.025	2.0
941.7213	16.01	-1.44	119242.130	1.5	129858.070	1.5
941.7249	17.01	-2.09	151019.000	2.0	161634.900	2.0
941.7434	9.00	-4.81	128087.829	2.5	138703.520	2.5
941.7444	10.01	-2.69	318202.370	1.5	328818.050	2.5
941.7444	10.01	-2.52	318202.390	2.5	328818.070	3.5
941.7461	10.01	-4.13	318202.390	2.5	328818.050	2.5
941.7479	20.02	-.66	328582.450	1.0	339198.090	1.0
941.7754	18.00	-3.81	113426.050	2.0	124041.380	2.0
941.7914	18.00	-2.76	113426.050	2.0	124041.200	1.0
941.8062	26.00	-3.55	36940.600	2.0	47555.584	1.0
941.8154	24.00	-4.58	52031.720	3.0	62646.600	2.0
941.8350	12.00	-2.82	46403.065	2.0	57017.724	1.0
941.8412	22.00	-3.01	31373.801	3.0	41988.390	3.0
941.8553	26.00	-3.63	36975.640	3.0	47590.070	4.0
941.8571	18.01	-1.59	150474.900	1.5	161089.310	.5
941.8899	10.01	-.50	302843.530	3.5	313457.570	3.5
941.8926	10.01	-1.82	302843.530	3.5	313457.540	2.5
941.8944	22.00	-4.21	35454.051	4.0	46068.040	4.0
941.9023	29.01	-3.45	138028.700	1.0	148642.600	2.0
941.9396	24.00	-3.54	44373.340	3.0	54986.820	3.0
941.9414	10.01	-2.35	302844.110	2.5	313457.570	3.5
941.9547	28.01	-2.73	121042.520	1.5	131655.830	.5
941.9591	28.01	-4.64	121042.570	1.5	131655.830	.5
941.9664	17.00	-1.99	88080.042	2.5	98693.220	2.5
941.9707	25.00	-3.33	51100.490	4.5	61713.620	5.5
941.9708	26.00	-4.81	33765.291	2.0	44378.420	1.0
941.9831	23.01	-4.58	62176.240	4.0	72789.230	3.0
941.9848	17.00	-.44	88080.042	2.5	98693.013	3.5
942.0284	23.01	-3.89	44200.970	1.0	54813.450	0.0
942.0337	28.01	-3.04	120203.490	2.5	130815.910	3.5
942.0471	18.01	.03	191169.520	1.5	201781.790	2.5
942.0488	18.01	-1.21	190732.970	.5	201345.220	1.5
942.0586	24.00	-3.63	36577.730	4.0	47189.870	4.0
942.0923	22.01	-4.72	56325.940	2.5	66937.700	2.5
942.1536	25.00	-3.28	41403.930	2.5	52015.000	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
942.1536	25.00	-3.58	41403.930	2.5	52015.000	3.5
942.1631	16.00	.36	67824.238	2.0	78435.200	3.0
942.1634	26.00	-3.22	36766.950	3.0	47377.909	4.0
942.1704	28.01	-2.35	121317.890	3.5	131928.770	4.5
942.1786	14.00	-.89	49399.670	1.0	60010.458	1.0
942.1898	20.00	-1.84	38219.118	2.0	48829.780	1.0
942.1898	20.00	-1.38	38219.118	2.0	48829.780	2.0
942.1898	20.00	-1.78	38219.118	2.0	48829.780	3.0
942.2139	26.02	-3.31	189024.530	5.0	199634.920	6.0
942.2264	28.01	-1.84	118892.990	5.5	129503.240	4.5
942.2419	26.00	-2.88	43137.472	3.0	53747.547	3.0
942.2557	27.00	-1.11	44555.710	1.5	55165.630	2.5
942.2773	22.00	-4.53	37852.434	4.0	48462.110	5.0
942.2788	15.00	-1.85	67971.140	.5	78580.800	1.5
942.3068	26.00	-2.93	41130.620	1.0	51739.964	2.0
942.3409	23.00	-4.34	20789.130	2.5	31398.090	2.5
942.3614	24.00	-4.00	35813.730	3.0	46422.460	4.0
942.3889	28.01	-1.83	122837.330	4.5	133445.750	4.5
942.3931	14.00	-2.64	49028.294	0.0	59636.667	1.0
942.4244	26.02	-3.62	188109.580	3.0	198717.600	4.0
942.4262	24.00	-2.60	35501.260	3.0	46109.260	2.0
942.4262	29.01	-.88	137913.800	1.0	148521.800	1.0
942.4964	28.01	-2.89	105861.190	2.5	116468.400	1.5
942.6057	25.00	-1.47	58110.240	4.5	68716.220	4.5
942.6102	6.00	-3.59	78307.630	2.0	88913.560	2.0
942.6244	21.00	-1.35	25724.720	3.5	36330.490	2.5
942.6413	20.02	-.33	363021.270	2.0	373626.850	2.0
942.6529	10.00	-2.83	161607.261	2.0	172212.710	1.0
942.6529	10.00	-1.88	161607.261	2.0	172212.710	2.0
942.6839	15.01	-1.70	131353.300	2.0	141958.400	1.0
942.7020	26.00	-2.77	47092.693	3.0	57697.590	4.0
942.7311	9.02	-4.32	455648.670	1.5	466253.240	1.5
942.7636	28.00	-3.91	47139.392	2.0	57743.596	3.0
942.7871	28.01	-2.71	121192.320	3.5	131796.260	2.5
942.8039	28.01	-3.55	121146.980	2.5	131750.730	3.5
942.8591	25.00	-2.64	51787.920	.5	62391.050	.5
942.8608	10.01	.38	302816.980	1.5	313420.090	2.5
942.8670	7.01	-.08	210751.430	1.0	221354.470	2.0
942.8751	27.00	-1.79	43555.220	3.5	54158.170	4.5
942.8759	18.01	-3.38	199981.940	1.5	210584.880	1.5
942.8930	22.00	-3.24	25493.722	2.0	36096.470	3.0
942.9026	28.01	-2.26	118877.090	1.5	129479.730	1.5
942.9062	9.01	-2.38	229550.110	2.0	240152.710	1.0
942.9240	17.01	-1.82	139350.000	1.0	149952.400	1.0
942.9293	24.00	-5.00	35398.020	4.0	46000.360	3.0
942.9347	25.00	-3.32	51787.920	.5	62390.200	1.5
942.9489	28.01	-2.42	121194.140	2.5	131796.260	2.5
942.9542	10.01	-.46	302816.980	1.5	313419.040	1.5
942.9649	25.00	-.59	45754.270	3.5	56356.210	3.5
942.9814	12.00	-1.26	47841.119	0.0	58442.874	1.0
942.9951	26.02	-4.63	219655.550	2.0	230257.150	2.0
943.0076	24.00	-3.62	35572.940	2.0	46174.400	3.0
943.0174	9.02	-3.02	442147.190	2.5	452748.540	2.5
943.0218	24.00	-4.71	44373.340	3.0	54974.640	2.0
943.0545	26.00	-2.61	40207.120	3.0	50808.053	4.0
943.0557	9.01	-2.60	229551.790	1.0	240152.710	1.0
943.0752	13.01	-2.54	134181.200	4.0	144781.900	3.0
943.0752	13.01	-2.83	134181.200	4.0	144781.900	3.0
943.0752	13.01	-4.78	134181.200	3.0	144781.900	3.0
943.0911	22.00	-3.69	33980.639	2.0	44581.160	2.0
943.1019	8.01	-.40	255104.600	2.5	265705.000	2.5
943.1117	24.00	-2.76	46637.210	3.0	57237.500	4.0
943.1197	7.01	-.26	210751.430	1.0	221351.630	1.0
943.1738	22.00	-.58	28702.768	3.0	39302.360	4.0
943.1908	8.01	-.39	255162.600	.5	265762.000	1.5
943.2185	28.01	-2.91	116732.510	2.5	127331.600	2.5
943.2211	10.01	.27	291202.030	3.5	301801.090	3.5
943.2318	22.01	-2.30	20891.880	3.5	31490.820	3.5
943.2540	20.02	1.05	359543.080	4.0	370141.770	5.0
943.2745	12.00	-1.39	47844.414	1.0	58442.874	1.0
943.2754	18.01	-2.38	199879.320	3.5	210477.770	3.5
943.2764	12.00	-1.08	47844.414	1.0	58442.853	2.0
943.2923	9.01	-2.47	229554.450	0.0	240152.710	1.0
943.3021	28.01	-3.45	122847.600	3.5	133445.750	4.5
943.3066	8.01	-2.42	265468.200	1.5	276066.300	1.5
943.3066	8.01	-2.32	265468.200	1.5	276066.300	2.5
943.3209	26.00	-3.22	37157.546	2.0	47755.485	3.0
943.3237	26.00	-4.59	40594.413	4.0	51192.320	4.0
943.3431	24.00	-4.99	52064.270	4.0	62661.960	3.0
943.3484	27.00	-4.04	43847.980	3.5	54445.610	2.5
943.3656	9.00	.38	117622.923	2.5	128220.360	3.5
943.3902	27.00	-3.46	44568.470	2.5	55165.630	2.5
943.4009	23.01	-4.33	62085.020	2.0	72682.060	2.0
943.4128	9.00	-1.14	117622.923	2.5	128219.830	1.5
943.4598	28.00	-2.78	43654.974	3.0	54251.353	3.0
943.5042	15.00	-1.42	65450.020	1.5	76045.900	2.5
943.5505	23.00	-1.01	26480.280	3.5	37075.640	4.5
943.5549	6.00	-3.28	78318.250	3.0	88913.560	2.0
943.5692	27.00	-4.65	44394.470	3.5	54989.620	3.5
943.5746	27.00	-1.66	42269.320	4.5	52864.410	4.5
943.6030	9.02	-3.26	442748.850	2.5	453343.620	2.5
943.6235	18.01	-1.47	189437.690	.5	200032.230	1.5
943.6396	18.01	-3.43	192556.840	2.5	203151.200	2.5
943.6463	26.00	-4.98	44285.436	2.0	54879.720	2.0
943.6796	17.00	-2.51	90948.530	1.5	101542.440	1.5
943.6833	16.00	.19	67815.401	1.0	78409.270	2.0
943.7289	22.01	-4.12	56223.133	.5	66816.490	1.5
943.7355	16.00	-.54	67841.917	3.0	78435.200	3.0
943.7420	22.00	-1.27	36132.210	4.0	46725.420	3.0
943.7607	10.01	.60	302839.280	2.5	313432.280	3.5
943.7803	27.00	-2.16	43921.890	2.5	54514.670	3.5
943.7825	26.00	-1.65	37162.729	3.0	47755.485	3.0
943.7866	26.02	-4.19	219655.550	2.0	230248.260	1.0
943.7939	28.00	-1.01	45281.152	3.0	55873.780	2.0
943.7964	8.01	-.77	248009.100	1.5	258601.700	1.5
943.8044	24.00	-4.12	48824.500	4.0	59417.010	3.0
943.8302	28.01	-1.94	118803.820	6.5	129396.040	5.5
943.8651	22.00	-4.69	15108.121	3.0	25699.950	2.0
943.8695	6.00	-3.54	78199.070	2.0	88790.850	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
943.8703	26.02	-2.86	189011.840	4.0	199603.610	4.0
943.8731	10.00	-4.84	161699.661	2.0	172291.400	1.0
943.8731	10.00	-4.84	161699.661	2.0	172291.400	1.0
943.8755	12.00	-2.57	47851.162	2.0	58442.874	1.0
943.8774	12.00	-1.56	47851.162	2.0	58442.853	2.0
943.8783	12.00	-.64	47851.162	2.0	58442.843	3.0
943.8810	22.00	-3.92	35652.950	3.0	46244.600	2.0
943.9113	20.02	-3.55	328606.780	2.0	339198.090	1.0
943.9276	26.00	-4.35	47106.463	4.0	57697.590	4.0
943.9388	22.00	-3.95	37617.868	4.0	48208.870	3.0
943.9407	7.01	-.65	210705.260	2.0	221296.240	2.0
944.0103	26.00	-3.50	47929.981	4.0	58520.180	4.0
944.0254	28.01	-3.60	120211.300	5.5	130801.330	4.5
944.0326	10.00	-4.77	161701.451	3.0	172291.400	2.0
944.0326	10.00	-4.77	161701.451	3.0	172291.400	2.0
944.0726	8.01	-1.24	255172.500	1.5	265762.000	1.5
944.0981	22.00	-6.46	14105.680	3.0	24694.895	4.0
944.1261	28.01	-2.49	118914.340	4.5	129503.240	4.5
944.1618	29.01	-3.01	135834.900	4.0	146423.400	4.0
944.1708	15.00	-.24	65585.000	2.5	76173.400	3.5
944.2287	26.01	-4.84	93395.600	2.5	103983.350	3.5
944.2742	10.01	.01	302831.800	.5	313419.040	1.5
944.2798	26.00	-3.45	48122.913	3.0	58710.090	3.0
944.2911	7.01	.40	210705.260	2.0	221292.310	3.0
944.3232	18.02	-2.79	214568.490	0.0	225155.180	1.0
944.3321	10.01	-1.82	292651.320	1.5	303237.910	1.5
944.3420	26.02	-4.77	218923.080	3.0	229509.560	3.0
944.3455	25.01	.14	76374.560	2.0	86961.000	1.0
944.3491	8.01	-1.05	255104.600	2.5	265691.000	3.5
944.3583	22.00	-3.98	37622.573	3.0	48208.870	3.0
944.3687	6.00	-2.43	78249.940	4.0	88836.120	3.0
944.3744	26.00	-1.68	41018.029	2.0	51604.146	3.0
944.3859	10.00	-1.15	162408.653	2.0	172994.640	3.0
944.3868	26.00	-3.64	48238.832	2.0	58824.810	2.0
944.4080	25.00	-4.03	57305.620	3.5	67891.360	3.5
944.4249	18.00	-2.33	113468.550	2.0	124054.100	3.0
944.4339	24.00	-3.33	20520.920	3.0	31106.370	4.0
944.4392	18.01	-1.93	199879.320	3.5	210464.710	2.5
944.4553	29.01	-2.77	135910.990	2.0	146496.200	3.0
944.4606	29.01	-2.44	135990.150	3.0	146575.300	2.0
944.4651	23.00	-3.77	20812.990	1.5	31398.090	2.5
944.4712	16.00	-.55	67824.238	2.0	78409.270	2.0
944.4850	22.00	-4.71	37743.933	3.0	48328.810	4.0
944.4883	25.00	-.03	46901.130	2.5	57485.970	2.5
944.4981	23.00	-3.34	15664.750	1.5	26249.480	1.5
944.5000	22.00	-2.18	31373.801	3.0	41958.510	2.0
944.5097	23.00	-4.59	33481.450	3.5	44066.050	3.5
944.5204	17.00	-1.72	90948.530	1.5	101533.010	2.5
944.5217	10.00	-4.77	162410.174	3.0	172994.640	2.0
944.5217	10.00	-2.45	162410.174	3.0	172994.640	3.0
944.5217	10.00	-2.34	162410.174	3.0	172994.640	3.0
944.5217	10.00	-1.01	162410.174	3.0	172994.640	4.0
944.5240	17.00	-2.31	90948.530	1.5	101532.970	1.5
944.5561	9.02	-4.64	380250.520	2.5	390834.600	2.5
944.5773	26.00	-4.80	34636.820	2.0	45220.662	3.0
944.5829	23.00	-.76	26738.310	4.5	37322.090	3.5
944.6114	26.02	-2.66	189011.840	4.0	199595.300	3.0
944.6346	29.01	-3.54	128558.900	3.0	139142.100	2.0
944.6391	24.00	-3.11	27300.190	1.0	37883.340	2.0
944.6721	25.00	-2.42	58110.240	4.5	68693.020	5.5
944.6730	25.01	-2.69	32787.600	4.0	43370.370	3.0
944.6811	24.00	-2.02	20523.690	4.0	31106.370	4.0
944.7034	24.00	-1.20	20523.940	5.0	31106.370	4.0
944.7273	28.00	-1.32	43654.974	3.0	54237.136	4.0
944.7293	28.01	-4.65	104503.220	2.5	115085.360	3.5
944.7302	23.00	-4.55	14548.830	2.5	25130.960	2.5
944.7605	28.01	-2.57	118897.940	2.5	129479.730	1.5
944.7717	26.00	-3.58	47420.215	5.0	58001.880	6.0
944.7927	28.01	-.68	119889.470	5.5	130470.900	4.5
944.8480	10.01	-1.97	302839.280	2.5	313420.090	2.5
944.8713	6.00	-2.28	77679.820	2.0	88260.370	2.0
944.8793	6.00	-4.52	78293.490	1.0	88873.950	2.0
944.9132	18.01	-2.89	189654.780	2.5	200234.860	2.5
944.9168	28.01	-2.96	118923.200	3.5	129503.240	4.5
944.9338	10.01	-.97	302890.570	2.5	313470.420	2.5
944.9418	10.01	-1.78	302839.280	2.5	313419.040	1.5
944.9623	25.00	-2.29	58136.690	3.5	68716.220	4.5
944.9740	13.01	-.47	139286.800	2.0	149866.200	3.0
944.9811	10.01	.61	302890.570	2.5	313469.890	3.5
945.0017	10.01	-1.18	302192.920	4.5	312772.010	3.5
945.0025	26.02	-2.35	189024.530	5.0	199603.610	4.0
945.0043	28.01	-3.23	99442.860	4.5	110021.920	4.5
945.0168	18.00	-4.98	112138.980	2.0	122717.900	3.0
945.0284	6.00	-3.22	78215.510	3.0	88794.300	2.0
945.0561	28.01	-2.72	111120.540	1.5	121699.020	1.5
945.1053	28.01	-2.68	121042.520	1.5	131620.450	1.5
945.1166	20.00	-2.70	35730.454	2.0	46308.257	2.0
945.1347	8.01	-4.09	255281.400	.5	265859.000	.5
945.1508	29.01	-2.21	123016.630	3.0	133594.050	3.0
945.2096	17.00	-3.17	74865.667	.5	85442.430	1.5
945.2152	29.01	-2.94	137938.900	4.0	148515.600	4.0
945.2286	10.01	-2.78	302903.650	2.5	313480.200	3.5
945.2306	26.00	-1.80	40404.492	1.0	50981.020	0.0
945.2482	28.01	-2.56	118897.940	2.5	129474.270	3.5
945.2581	28.01	-2.22	118927.020	4.5	129503.240	4.5
945.2612	26.00	-4.43	40257.300	5.0	50833.485	5.0
945.2695	10.00	-2.34	161636.617	1.0	172212.710	1.0
945.2695	10.00	-2.25	161636.617	1.0	172212.710	2.0
945.2719	14.00	-2.31	49060.601	1.0	59636.667	1.0
945.2938	24.00	-3.47	46524.840	2.0	57100.660	2.0
945.2983	17.00	-1.88	90948.530	1.5	101524.300	2.5
945.3131	20.00	-3.68	35730.454	2.0	46306.059	3.0
945.3144	18.01	-4.67	179931.770	1.5	190507.360	1.5
945.3181	22.00	-.60	28638.832	2.0	39214.380	3.0
945.3376	24.00	-4.66	37883.340	2.0	48458.670	2.0
945.3511	7.01	-.15	210776.450	0.0	221351.630	1.0
945.3850	8.03	.03	499994.900	.5	510569.700	1.5
945.3965	22.00	-2.73	25438.898	2.0	36013.570	2.0
945.3977	10.00	-3.63	162419.982	2.0	172994.640	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
945.3977	10.00	-1.14	162419.982	2.0	172994.640	3.0
945.3977	10.00	-3.64	162419.982	2.0	172994.640	3.0
945.4179	26.00	-1.87	41130.620	1.0	51705.052	2.0
945.4279	27.00	-1.54	45971.190	3.5	56545.510	2.5
945.4369	23.00	-3.05	15770.720	4.5	26344.940	4.5
945.4601	8.02	-2.87	366801.040	3.0	377375.000	2.0
945.4798	18.01	-3.42	150474.900	1.5	161048.640	1.5
945.4879	26.00	-4.12	44551.325	3.0	55124.974	3.0
945.4950	24.00	-4.17	36552.130	3.0	47125.700	3.0
945.5209	6.00	-1.92	78340.280	1.0	88913.560	2.0
945.5285	20.00	-1.91	35730.454	2.0	46303.649	2.0
945.5342	22.00	-4.72	38451.298	2.0	49024.430	3.0
945.5701	17.00	-3.07	91660.580	2.5	102233.310	2.5
945.5844	10.01	-1.65	302192.920	4.5	312765.490	3.5
945.5907	29.01	-2.99	128569.600	2.0	139142.100	2.0
945.6202	28.01	-2.30	121178.560	3.5	131750.730	3.5
945.6329	22.00	-4.29	25493.722	2.0	36065.750	3.0
945.6551	24.00	-4.47	46524.840	2.0	57096.620	1.0
945.6785	20.00	-1.42	35730.454	2.0	46301.973	1.0
945.7007	28.01	-4.65	119656.250	3.5	130227.520	2.5
945.7195	28.01	-3.37	116167.760	1.5	126738.820	1.5
945.7258	10.01	-.01	302192.920	4.5	312763.910	4.5
945.7556	20.00	-1.95	38259.124	3.0	48829.780	2.0
945.7556	20.00	-.94	38259.124	3.0	48829.780	3.0
945.7867	20.00	-1.44	38192.392	1.0	48762.700	1.0
945.7867	20.00	-2.05	38192.392	1.0	48762.700	2.0
945.7973	28.01	-1.74	121180.540	4.5	131750.730	3.5
945.8429	8.01	-1.79	229946.600	2.5	240516.280	1.5
945.8456	29.01	-2.93	135990.150	3.0	146559.800	4.0
945.8483	28.01	-4.05	119656.250	3.5	130225.870	3.5
945.8859	18.00	-1.52	112138.980	2.0	122708.180	2.0
945.9065	10.01	.76	302247.780	3.5	312816.750	4.5
945.9074	18.00	-.34	112138.980	2.0	122707.940	3.0
945.9367	26.00	-4.32	42784.387	6.0	53353.020	6.0
945.9584	28.01	-4.19	97799.660	1.5	108368.050	2.5
945.9602	15.00	-4.45	66343.330	.5	76911.700	.5
945.9933	29.01	-1.71	135834.900	4.0	146402.900	5.0
946.0014	6.00	-3.21	78199.070	2.0	88766.980	1.0
946.0211	18.01	-1.03	199879.320	3.5	210447.010	3.5
946.0399	18.01	-4.61	199959.620	2.5	210527.100	2.5
946.0488	22.01	-4.36	56249.110	1.5	66816.490	1.5
946.0513	16.00	-2.09	67841.917	3.0	78409.270	2.0
946.0632	28.01	-1.26	119913.330	4.5	130480.550	3.5
946.0677	7.00	-.63	86220.480	1.5	96787.650	1.5
946.0694	24.00	-3.52	36558.550	2.0	47125.700	3.0
946.0972	25.00	-3.74	51787.920	.5	62354.760	1.5
946.1048	28.00	-4.88	44206.185	3.0	54772.940	3.0
946.1071	18.01	-3.13	173347.830	1.5	183914.560	.5
946.1321	29.01	-3.37	135990.150	3.0	146556.600	3.0
946.1437	6.00	-3.21	78307.630	2.0	88873.950	2.0
946.1634	24.00	-4.56	31009.000	3.0	41575.100	3.0
946.1957	28.01	-2.26	120250.170	3.5	130815.910	3.5
946.2010	28.01	-1.56	121120.880	5.5	131686.560	4.5
946.2418	22.00	-2.86	25643.695	3.0	36208.920	4.0
946.2512	28.01	-2.49	121090.710	.5	131655.830	.5
946.2951	22.00	-3.63	38159.710	3.0	48724.340	2.0
946.2973	26.00	-1.27	39969.830	3.0	50534.435	3.0
946.3426	8.01	-.30	255140.900	1.5	265705.000	2.5
946.3435	28.01	-3.39	118803.820	6.5	129367.910	6.5
946.3570	2.00	-1.13	183237.000	0.0	193803.837	0.0
946.3775	28.01	-2.16	118939.530	5.5	129503.240	4.5
946.3891	24.00	-4.13	48558.570	2.0	59122.150	3.0
946.4080	16.01	-1.58	119294.700	2.5	129858.070	1.5
946.4169	7.00	-1.35	93581.520	.5	104144.790	.5
946.4170	22.00	-2.24	31489.451	4.0	42052.720	3.0
946.4376	9.00	-3.91	128140.480	2.5	138703.520	2.5
946.4985	26.01	-2.90	49101.090	.5	59663.450	1.5
946.5092	25.01	.37	76374.560	2.0	86936.800	2.0
946.5101	28.01	-2.76	119665.290	2.5	130227.520	2.5
946.5486	8.02	-1.54	370524.200	2.0	381086.000	1.0
946.5486	17.00	-.80	91660.580	2.5	102222.380	3.5
946.5513	28.01	-2.87	120203.490	2.5	130765.260	3.5
946.5916	11.00	-2.37	29172.839	2.5	39734.160	2.5
946.5916	11.00	-1.07	29172.839	2.5	39734.160	3.5
946.5960	11.00	-1.22	29172.889	1.5	39734.160	2.5
946.6069	28.01	-3.26	121125.410	4.5	131686.560	4.5
946.6168	29.01	-2.41	136014.260	2.0	146575.300	2.0
946.6490	23.00	-3.66	15688.800	2.5	26249.480	1.5
946.6517	18.01	-.27	208591.780	1.5	219152.430	1.5
946.6562	29.01	-2.54	128558.900	3.0	139119.500	3.0
946.6580	28.01	-2.47	119665.290	2.5	130225.870	3.5
946.6652	8.02	-.06	428769.000	3.0	439329.500	2.0
946.6696	24.00	-4.98	35807.900	2.0	46368.350	3.0
946.6741	8.01	-2.77	255104.600	2.5	265665.000	2.5
946.6813	24.00	-4.30	37233.500	5.0	47793.820	5.0
946.6813	18.01	.43	208592.110	.5	219152.430	1.5
946.7163	28.01	-3.48	118914.340	4.5	129474.270	3.5
946.7369	13.01	-2.09	139588.700	3.0	150148.400	2.0
946.7369	13.01	-3.52	139588.700	3.0	150148.400	3.0
946.7369	13.01	-4.95	139588.700	3.0	150148.400	4.0
946.7369	13.01	-2.43	139588.700	4.0	150148.400	3.0
946.7369	13.01	-1.51	139588.700	4.0	150148.400	3.0
946.7369	13.01	-3.38	139588.700	4.0	150148.400	4.0
946.7369	13.01	-3.52	139588.700	4.0	150148.400	4.0
946.7369	13.01	-1.86	139588.700	5.0	150148.400	4.0
946.7423	24.00	-4.17	35862.820	4.0	46422.460	4.0
946.7735	28.00	-3.89	47208.228	1.0	57767.520	1.0
946.7772	28.01	-1.31	119656.250	3.5	130215.500	4.5
946.7797	26.00	-2.48	40052.080	2.0	50611.303	3.0
946.7835	18.01	-.54	199879.320	3.5	210438.500	4.5
946.8293	18.01	-1.11	186074.350	2.5	196633.020	2.5
946.8517	23.01	-3.47	44159.430	2.0	54717.850	1.0
946.8526	28.01	-2.95	121192.320	3.5	131750.730	3.5
946.8651	23.00	-2.70	33360.310	3.5	43918.580	2.5
946.8795	25.00	-2.89	52015.000	1.5	62573.110	1.5
946.8803	17.00	-1.45	91660.580	2.5	102218.680	2.5
946.9072	17.00	-2.75	91660.580	2.5	102218.380	1.5
946.9279	28.01	-1.18	119913.330	4.5	130470.900	4.5
946.9315	29.01	-4.40	138073.670	4.0	148631.200	3.0
946.9970	28.01	-3.73	105588.890	4.5	116145.690	3.5
947.0158	28.01	-3.31	121194.140	2.5	131750.730	3.5
947.0192	28.00	-4.99	47030.148	3.0	57586.700	2.0
947.0508	23.01	-4.68	44159.430	2.0	54715.630	2.0
947.0598	29.01	-2.43	138003.200	2.0	148559.300	2.0
947.0694	22.00	-2.12	31628.668	5.0	42184.660	4.0
947.0786	27.00	-4.93	15184.040	2.5	25739.930	2.5
947.0957	6.00	-2.30	78318.250	3.0	88873.950	2.0
947.1423	27.00	-2.59	43921.890	2.5	54477.070	3.5
947.1432	28.01	-4.63	106283.160	2.5	116838.330	1.5
947.1440	28.00	-1.53	44206.185	3.0	54761.346	4.0
947.1513	9.00	-4.59	128140.480	2.5	138695.560	1.5
947.1612	10.01	-2.06	302902.570	1.5	313457.540	2.5
947.1926	24.00	-4.12	35813.730	3.0	46368.350	3.0
947.2392	22.00	-4.48	37654.770	2.0	48208.870	3.0
947.2428	28.01	-4.84	122175.420	2.5	132729.480	2.5
947.2553	10.01	.05	302903.650	2.5	313457.570	3.5
947.2572	25.00	-4.69	52870.100	3.5	63424.000	3.5
947.2580	10.01	-.65	302903.650	2.5	313457.540	2.5
947.2688	18.01	-1.19	204113.710	1.5	214667.480	2.5
947.2916	22.00	-4.35	33700.874	4.0	44254.390	3.0
947.2994	29.01	-1.50	110365.980	2.0	120919.410	1.0
947.3056	18.01	-1.76	199959.620	2.5	210512.980	1.5
947.3262	17.00	-2.04	85442.430	1.5	95995.561	.5
947.3409	22.00	-.77	28596.293	1.0	39149.260	2.0
947.3703	28.01	-1.56	119656.250	3.5	130208.890	3.5
947.3739	28.01	-.82	93528.440	3.5	104081.040	4.5
947.3919	22.00	-4.24	37555.021	3.0	48107.420	2.0
947.4484	29.01	-2.63	135863.930	1.0	146415.700	2.0
947.4655	15.00	-3.75	66360.120	1.5	76911.700	.5
947.4708	23.00	-4.11	26437.680	1.5	36989.200	2.5
947.4888	25.00	-.76	47154.510	1.5	57705.830	.5
947.5032	28.01	-2.95	120250.170	3.5	130801.330	4.5
947.5041	18.01	-2.22	191169.520	1.5	201720.670	1.5
947.5112	28.01	-2.01	118923.200	3.5	129474.270	3.5
947.5230	18.01	-2.02	148842.370	2.5	159393.310	1.5
947.5397	26.00	-4.66	40257.300	5.0	50808.053	4.0
947.5490	28.01	-2.48	119656.250	3.5	130206.900	4.5
947.5948	23.00	-2.48	15571.900	2.5	26122.040	3.5
947.6081	26.00	-9.87	12560.933	3.0	23110.925	3.0
947.6136	23.00	-1.58	20767.570	3.5	31317.500	4.5
947.6163	29.01	-2.51	128569.600	2.0	139119.500	3.0
947.6199	25.00	-1.24	45940.930	2.5	56490.790	2.5
947.6388	24.00	-4.61	37244.170	4.0	47793.820	5.0
947.6578	22.00	-4.65	11531.760	2.0	22081.198	2.0
947.6621	24.00	-3.32	46637.210	3.0	57186.600	3.0
947.7268	23.01	-4.28	62133.390	3.0	72682.060	2.0
947.7690	15.00	-4.47	65157.200	2.5	75705.400	3.5
947.7798	8.01	-2.72	229968.200	1.5	240516.280	1.5
947.7924	10.01	-2.72	280947.100	1.5	291495.040	2.5
947.8293	18.01	.05	186074.350	2.5	196621.880	3.5
947.8392	18.00	-.96	112138.980	2.0	122686.400	2.0
947.8454	28.01	-1.40	116191.470	2.5	126738.820	1.5
947.8544	28.01	-1.88	118927.020	4.5	129474.270	3.5
947.8571	18.00	-1.92	112138.980	2.0	122686.200	1.0
947.8679	28.01	-2.90	120268.810	3.5	130815.910	3.5
947.9128	27.00	-4.81	42796.670	1.5	53343.270	1.5
947.9479	28.01	-1.57	120211.300	5.5	130757.510	4.5
947.9713	23.00	-4.03	26437.680	1.5	36983.630	1.5
948.0045	16.01	-2.07	119242.130	1.5	129787.710	.5
948.0144	28.01	-2.45	118874.110	3.5	129419.580	4.5
948.0279	23.00	-3.85	26480.280	3.5	37025.600	3.5
948.0422	18.01	-2.78	199981.940	1.5	210527.100	2.5
948.0629	10.01	-.75	302935.310	4.5	313480.240	4.5
948.0647	10.01	-2.37	302935.330	5.5	313480.240	4.5
948.0665	10.01	-2.15	302935.310	4.5	313480.200	3.5
948.0737	7.01	-.18	210751.430	1.0	221296.240	2.0
948.0872	18.01	-.59	189414.960	3.5	199959.620	2.5
948.0926	24.00	-2.68	46783.060	4.0	57327.660	5.0
948.1070	25.00	-3.63	51169.180	5.5	61713.620	5.5
948.1199	22.01	-4.31	56223.133	.5	66767.430	.5
948.1241	18.01	-2.22	189437.690	.5	199981.940	1.5
948.1403	26.00	-2.93	37046.000	4.0	47590.070	4.0
948.1520	28.01	-3.75	120271.970	2.5	130815.910	3.5
948.1781	29.01	-2.19	135952.550	2.0	146496.200	3.0
948.1825	28.01	-2.16	119665.290	2.5	130208.890	3.5
948.1842	20.00	-1.89	38219.118	2.0	48762.700	1.0
948.1842	20.00	-1.43	38219.118	2.0	48762.700	2.0
948.1842	20.00	-1.84	38219.118	2.0	48762.700	3.0
948.2023	28.01	-2.11	120272.530	4.5	130815.910	3.5
948.2141	22.00	-.69	31373.801	3.0	41917.050	4.0
948.2275	29.01	-4.56	137938.900	4.0	148482.000	3.0
948.2653	27.00	-1.24	46002.830	2.5	56545.510	2.5
948.2671	21.00	-2.48	15041.980	3.5	25584.640	2.5
948.2869	9.01	-1.90	229550.110	2.0	240092.550	2.0
948.2888	8.00	-.06	102662.026	2.0	113204.445	1.0
948.2959	29.01	-3.19	136014.260	2.0	146556.600	3.0
948.3058	28.01	-2.43	110573.360	2.5	121115.590	1.5
948.3274	26.00	-4.73	26224.961	3.0	36766.950	3.0
948.3292	18.01	-1.75	201030.300	.5	211572.270	1.5
948.3355	17.01	-.83	151093.000	3.0	161634.900	2.0
948.3525	10.01	-.74	302890.570	2.5	313432.280	3.5
948.3543	27.00	-2.47	41918.410	3.5	52460.100	2.5
948.3624	24.00	-3.92	35807.900	2.0	46349.500	2.0
948.4380	9.01	-2.38	229551.790	1.0	240092.550	2.0
948.4797	9.00	-3.95	116040.883	1.5	126581.180	.5
948.4947	25.00	-3.66	52883.870	2.5	63424.000	3.5
948.5307	28.01	-3.33	120211.300	5.5	130751.030	5.5
948.5370	29.01	-1.96	136035.640	3.0	146575.300	2.0
948.5604	28.01	-2.44	126738.820	1.5	137278.220	1.5
948.5919	22.01	-4.02	20951.770	2.5	31490.820	3.5
948.5961	26.00	-4.04	26623.726	2.0	37162.729	3.0
948.6058	18.00	-3.64	104102.144	1.0	114641.040	2.0
948.6504	28.01	-3.26	104298.230	4.5	114836.630	3.5
948.6683	10.00	-.97	148257.790	1.0	158795.992	1.0
948.6810	27.00	-2.80	43398.620	3.5	53936.680	2.5
948.6965	17.00	-1.07	72827.038	.5	83364.927	.5
948.7372	22.00	-4.44	17369.590	1.0	27907.026	2.0
948.7764	17.01	-1.60	151134.000	1.0	161671.000	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
948.7899	10.01	-1.41	302307.750	2.5	312844.600	1.5
948.8034	10.01	.62	317781.420	2.5	328318.120	3.5
948.8188	10.01	-.64	317781.420	2.5	328317.950	2.5
948.8314	27.00	-2.21	42434.230	2.5	52970.620	2.5
948.8377	24.00	-4.32	35572.940	2.0	46109.260	2.0
948.8395	8.03	.28	500037.800	1.5	510574.100	2.5
948.8521	10.01	.32	317781.790	1.5	328317.950	2.5
948.8872	24.00	-2.90	35813.730	3.0	46349.500	2.0
948.9206	17.01	-3.32	150813.000	1.0	161348.400	1.0
948.9746	28.01	-1.99	120281.110	4.5	130815.910	3.5
949.0060	12.00	-2.76	49346.729	1.0	59881.181	2.0
949.0107	8.01	-.02	255104.600	2.5	265639.000	3.5
949.0205	28.01	-3.85	116145.690	3.5	126679.980	4.5
949.0647	8.01	-.64	255465.200	3.5	265999.000	3.5
949.0647	8.01	-.07	255465.200	3.5	265999.000	4.5
949.0763	6.00	-3.28	78340.280	1.0	88873.950	2.0
949.0772	14.01	-.90	113962.340	.5	124496.000	1.5
949.0917	18.01	.35	204133.980	2.5	214667.480	2.5
949.1368	26.02	-4.47	213505.730	6.0	224038.730	5.0
949.1429	26.00	-4.74	44022.518	4.0	54555.450	4.0
949.1539	28.01	-1.49	120218.220	6.5	130751.030	5.5
949.1800	28.01	-3.56	120268.810	3.5	130801.330	4.5
949.1818	8.01	-.11	255172.500	1.5	265705.000	2.5
949.2125	27.00	-4.99	44857.570	.5	55389.730	1.5
949.2323	28.01	-3.43	119665.290	2.5	130197.230	1.5
949.2359	8.03	-.68	500037.800	1.5	510569.700	1.5
949.2855	28.01	-2.87	120199.180	1.5	130730.530	2.5
949.3080	8.01	-1.45	265578.000	3.5	276109.100	4.5
949.3134	28.01	-2.62	118892.990	5.5	129424.030	5.5
949.3269	28.01	-1.65	120270.440	5.5	130801.330	4.5
949.3360	28.01	-1.98	118893.240	6.5	129424.030	5.5
949.3513	15.00	.09	65787.380	3.5	76318.000	4.5
949.3531	29.01	-3.60	138028.700	1.0	148559.300	2.0
949.3540	27.00	-7.07	13795.520	2.5	24326.110	3.5
949.3668	14.00	-4.39	49850.830	2.0	60381.278	1.0
949.3775	22.00	-4.86	31184.021	1.0	41714.350	2.0
949.3775	7.00	-4.53	86220.480	1.5	96750.810	1.5
949.4009	22.00	-1.98	34327.960	1.0	44858.030	1.0
949.4207	24.00	-4.18	36558.550	2.0	47088.400	1.0
949.4504	10.01	-.30	302890.570	2.5	313420.090	2.5
949.4568	25.00	-4.10	41031.480	4.5	51560.930	5.5
949.4640	29.01	-2.77	125730.600	3.0	135759.970	2.0
949.4802	23.01	-6.15	26839.820	3.0	37369.010	2.0
949.5154	28.01	-3.27	120272.530	4.5	130801.330	4.5
949.5190	22.00	-3.95	34535.040	2.0	45063.800	2.0
949.5371	22.00	-.59	31489.451	4.0	42018.010	5.0
949.5433	6.00	-3.57	78307.630	2.0	88836.120	3.0
949.5451	10.01	-1.54	302890.570	2.5	313419.040	1.5
949.5749	28.01	-2.23	119656.250	3.5	130184.390	2.5
949.5827	26.00	-2.57	40842.130	3.0	51370.184	2.0
949.6353	9.02	-3.76	380307.130	1.5	390834.600	2.5
949.6741	28.01	-2.29	120203.490	2.5	130730.530	2.5
949.7066	10.01	-2.48	302935.310	4.5	313461.990	5.5
949.7084	10.01	-2.61	302935.310	4.5	313461.970	4.5
949.7084	10.01	-.66	302935.330	5.5	313461.990	5.5
949.7102	10.01	-2.12	302935.330	5.5	313461.970	4.5
949.7129	24.00	-4.40	33542.110	2.0	44068.720	3.0
949.7147	28.01	-2.19	118892.990	5.5	129419.580	4.5
949.7463	28.00	-2.98	44206.185	3.0	54732.425	2.0
949.7562	28.01	-4.51	121699.020	1.5	132225.150	1.5
949.7671	24.00	-2.70	46846.770	3.0	57372.780	4.0
949.8429	29.01	-3.28	135902.430	0.0	146427.600	1.0
949.8880	10.01	-1.31	302247.780	3.5	312772.450	2.5
949.9277	10.01	-2.56	302247.780	3.5	312772.010	3.5
949.9340	29.01	-3.86	136035.640	3.0	146559.800	4.0
949.9394	8.01	-3.35	255140.900	1.5	265665.000	2.5
949.9584	22.00	-4.74	38200.940	0.0	48724.830	1.0
949.9584	28.01	-2.69	121146.980	2.5	131670.870	2.5
950.0216	29.01	-2.03	134359.900	1.0	144883.090	2.0
950.0261	25.01	.51	76374.560	2.0	86897.700	3.0
950.0442	18.01	-1.91	190507.360	1.5	201030.300	.5
950.0466	26.00	-3.26	43022.969	4.0	53545.882	3.0
950.0568	8.01	-2.47	255465.200	3.5	265988.000	2.5
950.0667	28.01	-4.75	105668.780	2.5	116191.470	2.5
950.1922	28.01	-2.45	120189.550	.5	130710.850	.5
950.2193	13.01	-1.61	139588.700	4.0	150109.700	3.0
950.2193	13.01	-2.39	139588.700	4.0	150109.700	3.0
950.2193	13.01	-3.39	139588.700	3.0	150109.700	3.0
950.2229	29.01	-2.22	136035.640	3.0	146556.600	3.0
950.2374	17.01	-3.23	151134.000	1.0	161654.800	1.0
950.2435	12.00	-3.51	47957.028	2.0	58477.760	2.0
950.2450	12.00	-2.59	47957.045	3.0	58477.760	2.0
950.2460	12.00	-4.52	47957.056	1.0	58477.760	2.0
950.2898	28.01	-2.11	120281.110	4.5	130801.330	4.5
950.2928	26.00	-4.13	48304.623	2.0	58824.810	2.0
950.2941	22.00	-3.83	25438.898	2.0	35959.070	1.0
950.2966	26.00	-4.58	33765.291	2.0	44285.436	2.0
950.3104	12.00	-3.04	47957.028	2.0	58477.020	1.0
950.3129	12.00	-3.34	47957.056	1.0	58477.020	1.0
950.3234	22.00	-3.48	25493.722	2.0	36013.570	2.0
950.3277	8.01	-.98	255465.200	3.5	265985.000	3.5
950.3350	23.00	-3.80	26505.880	2.5	37025.600	3.5
950.3428	12.00	-3.22	47957.056	1.0	58476.689	0.0
950.3702	27.00	-4.45	41041.430	3.5	51560.760	2.5
950.3910	28.01	-2.16	119665.290	2.5	130184.390	2.5
950.3982	14.01	-.64	113976.980	1.5	124496.000	2.5
950.3982	14.01	-1.60	113976.980	1.5	124496.000	1.5
950.4009	28.01	-1.43	118848.920	7.5	129367.910	6.5
950.4154	18.01	-.14	208803.240	4.5	219322.070	4.5
950.4154	18.01	-1.27	208803.240	5.5	219322.070	4.5
950.4190	18.01	-1.72	208803.240	4.5	219322.030	5.5
950.4190	18.01	.09	208803.240	5.5	219322.030	5.5
950.4361	29.01	-3.06	138003.200	2.0	148521.800	1.0
950.4389	24.00	-4.11	44299.980	2.0	54818.550	2.0
950.4542	6.00	-3.56	77679.820	2.0	88198.220	2.0
950.4768	18.01	-3.23	199959.620	2.5	210477.770	3.5
950.5021	6.00	-2.62	78318.250	3.0	88836.120	3.0
950.5039	23.00	-3.61	15664.750	1.5	26182.600	.5
950.5130	25.00	-4.20	56490.790	2.5	67008.540	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
950.5166	10.01	-.13	302247.780	3.5	312765.490	3.5
950.5206	14.00	-.81	49399.670	1.0	59917.336	2.0
950.5304	9.00	-.14	117622.923	2.5	128140.480	2.5
950.5383	18.01	-3.47	190106.230	1.5	200623.700	.5
950.5672	26.00	-3.31	44166.240	3.0	54683.390	4.0
950.5916	23.01	-4.51	44200.970	1.0	54717.850	1.0
950.5916	28.00	-3.63	48671.900	3.0	59188.780	3.0
950.5934	28.01	-4.60	105439.850	1.5	115956.710	2.5
950.6062	22.00	.23	28896.062	5.0	39412.780	5.0
950.6160	29.01	-3.02	135910.990	2.0	146427.600	1.0
950.6594	10.01	-1.45	302247.780	3.5	312763.910	4.5
950.6643	14.00	-3.06	50189.389	2.0	60705.464	3.0
950.6658	10.00	-1.21	161699.661	2.0	172215.720	3.0
950.7143	26.00	-2.12	37521.144	2.0	48036.667	2.0
950.7362	27.00	-3.47	43911.360	1.5	54426.640	1.5
950.7534	28.01	-2.53	120250.170	3.5	130765.260	3.5
950.8095	24.00	-4.12	46846.770	3.0	57361.240	3.0
950.8267	18.01	-1.53	196305.040	3.5	206819.320	4.5
950.8276	18.01	-3.08	196305.040	3.5	206819.310	3.5
950.8277	10.00	-2.52	161701.451	3.0	172215.720	3.0
950.8277	10.00	-1.08	161701.451	3.0	172215.720	4.0
950.8294	18.01	-.52	208803.240	4.5	219317.490	4.5
950.8294	18.01	-1.86	208803.240	5.5	219317.490	4.5
950.8312	18.01	-1.40	208803.240	4.5	219317.470	3.5
950.8420	26.02	-4.78	219743.040	1.0	230257.150	2.0
950.8430	18.01	-3.97	179592.130	2.5	190106.230	1.5
950.8434	26.00	-3.68	34547.192	2.0	45061.287	3.0
950.8531	22.00	.03	28788.372	4.0	39302.360	4.0
950.8927	25.00	-3.80	57305.620	3.5	67819.170	4.5
950.9044	25.01	-3.68	32856.950	3.0	43370.370	3.0
950.9379	10.00	-3.20	161699.661	2.0	172212.710	1.0
950.9379	10.00	-4.14	161699.661	2.0	172212.710	2.0
950.9894	6.00	-4.56	77679.820	2.0	88192.300	1.0
951.0175	29.01	-2.33	125247.800	2.0	135759.970	2.0
951.0519	29.01	-3.20	138130.810	3.0	148642.600	2.0
951.0609	28.01	-1.66	121125.410	4.5	131637.100	3.5
951.0627	28.01	-3.61	120199.180	1.5	130710.850	.5
951.0654	10.01	-3.44	318184.260	3.5	328695.900	2.5
951.0680	22.00	-.18	28702.768	3.0	39214.380	3.0
951.0999	10.00	-3.00	161701.451	3.0	172212.710	2.0
951.1261	27.00	-4.12	43425.710	2.5	53936.680	2.5
951.1273	22.00	-.47	28596.293	1.0	39107.250	1.0
951.1668	27.00	-3.25	44394.470	3.5	54904.990	2.5
951.1686	27.00	-4.63	21920.090	4.5	32430.590	5.5
951.1751	22.00	-.38	28638.832	2.0	39149.260	2.0
951.2012	25.00	-4.76	49591.510	1.5	60101.650	2.5
951.2187	26.00	-3.88	33412.706	3.0	43922.652	3.0
951.2256	29.01	-.95	110365.980	2.0	120875.850	2.0
951.2419	28.01	-3.17	118914.340	4.5	129424.030	5.5
951.2609	27.00	-4.94	44480.140	2.5	54989.620	3.5
951.2727	10.01	.29	302961.070	1.5	313470.420	2.5
951.2782	10.01	-.81	292451.780	1.5	302961.070	1.5
951.2989	28.01	-4.23	121161.810	1.5	131670.870	2.5
951.3116	23.00	-3.61	26480.280	3.5	36989.200	2.5
951.3203	26.00	-1.78	40594.413	4.0	51103.237	5.0
951.3279	28.01	-2.55	119665.290	2.5	130174.030	1.5
951.3524	27.00	-4.86	43847.980	3.5	54356.450	4.5
951.3587	20.02	.83	362893.470	2.0	373401.870	3.0
951.3610	26.00	-2.69	40842.130	3.0	51350.505	4.0
951.3768	28.01	-1.52	109148.050	4.5	119656.250	3.5
951.3858	20.02	-1.66	363118.750	3.0	373626.850	2.0
951.3949	28.01	-3.52	121178.560	3.5	131686.560	4.5
951.4275	28.01	-3.43	120222.890	1.5	130730.530	2.5
951.4311	27.00	-3.28	44658.030	1.5	55165.630	2.5
951.4429	10.01	-1.48	291968.140	.5	302475.610	.5
951.5715	29.01	-2.04	135990.150	3.0	146496.200	3.0
951.5742	28.01	-2.43	121180.540	4.5	131686.560	4.5
951.5878	10.01	-.11	291801.880	1.5	302307.750	2.5
951.6186	24.00	-2.68	35862.820	4.0	46368.350	3.0
951.6204	10.01	-4.15	280989.530	1.5	291495.040	2.5
951.6258	28.01	-2.53	99340.550	3.5	109846.000	3.5
951.6449	28.01	-2.04	118914.340	4.5	129419.580	4.5
951.6467	26.02	-4.24	219743.040	1.0	230248.260	1.0
951.6585	18.01	-1.00	199959.620	2.5	210464.710	2.5
951.6639	26.02	-4.31	219004.530	4.0	229509.560	3.0
951.6653	26.00	-3.17	43325.946	3.0	53830.960	3.0
951.6893	27.00	-3.03	43921.890	2.5	54426.640	1.5
951.6929	29.01	-2.24	135910.990	2.0	146415.700	2.0
951.6965	17.00	-.75	88188.550	1.5	98693.220	2.5
951.7128	27.00	-2.18	43199.650	2.5	53704.140	2.5
951.7282	27.00	-4.60	43847.980	3.5	54352.300	3.5
951.7318	28.01	-3.67	127991.560	3.5	138495.840	4.5
951.7418	28.01	-1.38	106007.890	2.5	116512.060	3.5
951.7436	24.00	-3.31	35572.940	2.0	46077.090	1.0
951.7463	25.00	-3.31	52128.650	2.5	62632.770	3.5
951.7599	20.02	-1.19	359800.570	3.0	370304.540	2.0
951.7608	23.01	-4.45	62176.240	4.0	72680.200	5.0
951.7608	10.01	-2.06	318191.940	2.5	328695.900	2.5
951.7617	10.01	-.72	318191.950	3.5	328695.900	2.5
951.7626	10.01	-.87	318191.940	2.5	328695.880	1.5
951.7681	24.00	-3.12	46846.770	3.0	57350.650	2.0
951.7753	18.01	-1.57	196315.510	2.5	206819.310	3.5
951.7956	20.00	-2.01	38259.124	3.0	48762.700	2.0
951.7956	20.00	-1.00	38259.124	3.0	48762.700	3.0
951.8433	28.01	-2.38	118892.990	5.5	129396.040	5.5
951.8659	28.01	-1.83	118893.240	6.5	129396.040	5.5
951.8678	24.00	-2.25	36552.130	3.0	47054.910	4.0
951.8859	22.00	-3.94	34078.580	3.0	44581.160	2.0
951.9566	28.01	-3.66	120189.550	.5	130691.350	1.5
952.0041	28.00	-.89	33610.916	2.0	44112.192	1.0
952.0056	10.01	-1.40	280700.770	3.5	291202.030	3.5
952.0146	24.00	-3.62	27382.180	2.0	37883.340	2.0
952.0381	17.01	-1.37	151134.000	1.0	161634.900	2.0
952.0463	6.00	-3.65	78293.490	1.0	88794.300	2.0
952.0672	23.00	-2.62	20767.570	3.5	31268.150	3.5
952.0844	29.01	-2.30	138130.810	3.0	148631.200	3.0
952.1383	9.00	-2.29	117622.923	2.5	128122.719	1.5
952.1570	25.00	-4.30	52015.000	3.5	62514.590	2.5
952.1588	27.00	-3.97	44183.340	4.5	54682.910	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
952.2123	28.01	-3.34	105668.780	2.5	116167.760	1.5
952.2160	22.00	-2.62	31489.451	4.0	41988.390	3.0
952.2479	37.00	-1.75	19355.203	0.0	29856.670	0.0
952.2884	37.00	-2.71	19355.649	0.0	29856.669	0.0
952.2949	22.00	-3.02	31373.801	3.0	41871.870	2.0
952.3175	24.00	-4.95	35870.530	4.0	46368.350	3.0
952.3593	6.00	-3.11	78293.490	1.0	88790.650	1.0
952.3910	28.01	-3.64	118927.020	4.5	129424.030	5.5
952.3938	10.01	-.35	302307.750	2.5	312804.730	2.5
952.4045	18.01	-.87	189654.780	2.5	200151.640	1.5
952.4418	28.01	-2.21	120268.810	3.5	130765.260	3.5
952.4481	28.01	-3.24	118923.200	3.5	129419.580	4.5
952.4509	24.00	-3.29	36552.130	3.0	47048.480	3.0
952.4563	10.01	-1.99	302307.750	2.5	312804.040	1.5
952.4692	18.00	-2.72	112138.980	2.0	122635.128	2.0
952.4735	13.01	-3.99	123418.000	3.0	133914.100	2.0
952.5008	8.01	-1.78	255465.200	3.5	265961.000	2.5
952.5171	26.02	-4.68	213563.080	5.0	224058.700	4.0
952.5641	22.00	-.47	31628.668	5.0	42123.770	6.0
952.5770	15.00	-.10	56339.540	2.5	66834.500	1.5
952.5806	27.00	-2.12	43199.650	2.5	53694.570	3.5
952.6115	28.01	-3.00	100078.780	1.5	110573.360	2.5
952.6251	29.01	-3.55	136442.050	3.0	146936.480	2.0
952.6315	27.00	-1.14	42269.320	4.5	52763.680	3.5
952.6378	18.01	-.65	185624.730	3.5	196119.020	3.5
952.6424	28.01	-4.46	121192.320	3.5	131686.560	4.5
952.6487	24.00	-4.39	46878.610	3.0	57372.780	4.0
952.6623	28.01	-2.86	121161.810	1.5	131655.830	.5
952.6823	27.00	-3.07	43295.320	4.5	53789.120	3.5
952.6944	28.00	-1.68	44206.185	3.0	54699.852	3.0
952.7069	10.01	-2.52	318202.370	1.5	328695.900	2.5
952.7087	10.01	-1.37	318202.390	2.5	328695.900	2.5
952.7087	10.01	-1.57	318202.370	1.5	328695.880	1.5
952.7105	10.01	-2.62	318202.390	2.5	328695.880	1.5
952.7132	27.00	-1.00	43295.320	4.5	53788.780	4.5
952.7286	28.01	-3.00	120271.970	2.5	130765.260	3.5
952.7304	28.01	-3.90	116838.330	1.5	127331.600	2.5
952.7459	29.01	-2.77	138028.700	1.0	148521.800	1.0
952.7722	26.00	-4.76	40842.130	3.0	51334.940	4.0
952.7795	28.01	-2.01	120272.530	4.5	130765.260	3.5
952.7949	28.01	-2.49	118927.020	4.5	129419.580	4.5
952.7976	15.00	-1.15	68088.270	1.5	78580.800	1.5
952.8003	8.01	-.76	255172.500	1.5	265665.000	2.5
952.8176	28.01	-2.63	121178.560	3.5	131670.870	2.5
952.8303	28.01	-2.41	120199.180	1.5	130691.350	1.5
952.8530	9.02	-3.52	442278.930	2.5	452770.850	3.5
952.8830	24.00	-3.89	39158.630	4.0	49650.220	3.0
952.8870	26.00	-4.04	40207.120	3.0	50698.666	2.0
952.9175	27.00	-3.70	41968.890	2.5	52460.100	2.5
952.9502	18.01	-4.06	204951.090	3.5	215441.940	4.5
952.9536	26.00	-1.41	42784.387	6.0	53275.200	7.0
952.9548	28.01	-4.40	109675.720	.5	120166.520	1.5
952.9593	24.00	-3.41	35618.510	1.0	46109.260	2.0
952.9618	28.00	-3.63	48735.308	2.0	59226.030	1.0
952.9811	25.00	-4.24	56490.790	2.5	66981.300	3.5
952.9893	24.00	-3.17	35807.900	2.0	46298.320	1.0
953.0138	27.00	-4.38	23184.230	2.5	33674.380	2.5
953.0165	28.01	-4.33	121146.980	2.5	131637.100	3.5
953.0338	24.00	-2.17	36558.550	2.0	47048.480	3.0
953.0689	20.00	-2.05	35818.713	3.0	46308.257	2.0
953.0956	29.01	-1.50	135934.150	5.0	146423.400	4.0
953.1455	28.01	-3.32	120268.810	3.5	130757.510	4.5
953.1603	20.00	-1.54	36547.688	0.0	47036.225	1.0
953.1624	22.00	-3.17	25643.695	3.0	36132.210	4.0
953.1810	28.01	-3.91	123434.600	4.5	133922.910	4.5
953.2128	28.01	-2.59	120222.890	1.5	130710.850	.5
953.2219	28.01	-2.94	120203.490	2.5	130691.350	1.5
953.2582	28.01	-1.24	116732.510	2.5	127219.970	3.5
953.2646	18.01	-.74	199959.620	2.5	210447.010	3.5
953.2686	20.00	-2.06	35818.713	3.0	46306.059	3.0
953.2937	28.01	-4.62	120270.440	5.5	130757.510	4.5
953.3084	22.00	-4.61	15156.787	4.0	25643.695	3.0
953.3301	6.00	-2.81	78307.630	2.0	88794.300	2.0
953.3673	28.01	-3.49	111783.790	3.5	122270.050	3.5
953.4585	20.00	-1.19	36554.749	1.0	47040.007	2.0
953.4837	28.01	-2.32	120272.530	4.5	130757.510	4.5
953.4878	20.00	-1.26	35818.713	3.0	46303.649	2.0
953.4958	22.00	-4.58	37622.573	3.0	48107.420	2.0
953.5146	22.00	-1.34	29818.310	3.0	40302.950	3.0
953.5248	20.00	-1.50	38192.392	1.0	48676.920	1.0
953.5248	20.00	-2.11	38192.392	1.0	48676.920	2.0
953.5255	9.02	-3.79	455768.720	.5	466253.240	1.5
953.5274	28.01	-2.35	118939.530	5.5	129424.030	5.5
953.5473	18.01	-3.50	189040.870	1.5	199525.150	1.5
953.5592	28.01	-2.35	120281.110	4.5	130765.260	3.5
953.5664	18.01	-2.06	189654.780	2.5	200138.850	3.5
953.5692	25.00	-3.70	46083.890	1.5	56567.930	1.5
953.5710	23.01	-1.79	44657.990	2.0	55142.010	3.0
953.6010	9.00	-4.98	128219.830	1.5	138703.520	2.5
953.6129	25.00	-4.58	37420.240	5.5	47903.800	4.5
953.6347	23.00	-3.00	26505.880	2.5	36989.200	2.5
953.6438	6.00	-3.32	78307.630	2.0	88790.850	1.0
953.6481	22.00	-3.27	17423.853	2.0	27907.026	2.0
953.6492	9.00	-3.43	128220.360	3.5	138703.520	2.5
953.6975	24.00	-4.41	46878.610	3.0	57361.240	3.0
953.7225	26.00	-4.81	40052.080	2.0	50534.435	3.0
953.7257	28.01	-4.55	102742.740	1.5	113225.060	.5
953.7603	29.01	-3.20	136014.260	2.0	146496.200	3.0
953.7714	26.00	-3.03	42911.897	5.0	53393.715	4.0
953.7748	10.01	-4.48	318183.690	4.5	328665.470	4.5
953.7785	10.01	-3.43	318183.730	5.5	328665.470	4.5
953.7821	28.01	-2.82	118914.340	4.5	129396.040	5.5
953.7885	10.01	-3.10	318183.690	4.5	328665.320	5.5
953.7921	10.01	-1.47	318183.730	5.5	328665.320	5.5
953.8025	20.00	-1.66	36554.749	1.0	47036.225	1.0
953.8040	10.01	.31	303237.910	1.5	313719.370	2.5
953.8267	10.01	-3.22	318184.260	3.5	328665.470	4.5
953.8276	10.01	-1.56	318184.270	4.5	328665.470	4.5
953.8413	10.01	-3.30	318184.270	4.5	328665.320	5.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
953.8821	8.01	-.47	255281.400	.5	265762.000	1.5
953.8831	28.01	-2.27	120270.440	5.5	130751.030	5.5
953.9040	28.01	-2.10	120250.170	3.5	130730.530	2.5
953.9268	24.01	-3.54	54444.190	3.5	64924.300	3.5
953.9323	22.00	-3.14	38544.380	3.0	49024.430	3.0
953.9323	28.01	-2.03	118939.530	5.5	129419.580	4.5
954.0013	37.00	-2.03	19355.649	0.0	29837.815	0.0
954.0260	23.00	-1.75	20789.130	2.5	31268.150	3.5
954.0369	25.00	-3.76	57485.970	2.5	67964.870	2.5
954.0369	18.01	-1.16	194822.100	3.5	205301.000	2.5
954.0661	18.01	.70	185624.730	3.5	196103.310	4.5
954.0688	28.01	-1.87	121192.320	3.5	131670.870	2.5
954.0734	28.01	-3.86	120272.530	4.5	130751.030	5.5
954.0832	22.00	-2.49	31628.668	5.0	42107.060	4.0
954.0989	25.00	-3.40	44978.980	1.5	55457.200	.5
954.1280	24.00	-2.13	46905.030	4.0	57382.930	5.0
954.1417	23.00	-3.70	26505.880	2.5	36983.630	1.5
954.1471	28.01	-2.13	120002.860	3.5	130480.550	3.5
954.1571	24.00	-2.06	36577.730	4.0	47055.310	5.0
954.1699	27.00	-4.56	41982.660	1.5	52460.100	2.5
954.1936	24.00	-3.35	36577.730	4.0	47054.910	4.0
954.2043	26.00	-3.66	36975.640	3.0	47452.702	4.0
954.2090	28.01	-1.52	116261.810	.5	126738.820	1.5
954.2346	28.01	-2.87	121194.140	2.5	131670.870	2.5
954.2668	22.00	-3.74	37852.434	4.0	48328.810	4.0
954.2743	22.00	-3.22	25537.276	1.0	36013.570	2.0
954.2965	6.00	-3.00	78318.250	3.0	88794.300	2.0
954.3320	26.00	-2.43	40404.492	1.0	50880.152	1.0
954.3776	28.01	-2.05	118809.340	1.5	129284.500	2.5
954.3876	29.01	-2.93	135952.550	2.0	146427.600	1.0
954.3994	28.01	-3.97	118892.990	5.5	129367.910	6.5
954.4222	28.01	-2.15	118893.240	6.5	129367.910	6.5
954.4450	27.00	-.93	35450.560	3.5	45924.980	3.5
954.4660	26.00	-3.13	48350.620	1.0	58824.810	2.0
954.5215	28.00	-4.99	48715.200	4.0	59188.780	3.0
954.5298	6.00	-3.72	78293.490	1.0	88766.980	1.0
954.5316	28.01	-2.16	121146.980	2.5	131620.450	1.5
954.5362	17.00	-2.05	91069.020	.5	101542.440	1.5
954.5371	18.01	-4.31	194800.180	4.5	205273.590	5.5
954.5380	8.01	-3.66	251224.100	2.5	261697.500	1.5
954.5579	28.00	-4.27	40361.254	3.0	50834.435	2.0
954.5644	28.01	-3.25	126738.820	1.5	137211.930	.5
954.5887	20.00	-1.36	35835.413	2.0	46308.257	2.0
954.6033	22.00	-1.59	6742.757	4.0	17215.440	5.0
954.6993	29.01	-1.41	135931.270	6.0	146402.900	5.0
954.7332	26.00	-2.94	48238.832	2.0	58710.090	3.0
954.7412	28.01	-4.16	121325.090	2.5	131796.260	2.5
954.7686	23.00	-4.45	26604.770	3.5	37075.640	4.5
954.7763	28.00	-4.76	40361.254	3.0	50832.039	3.0
954.7768	18.00	-2.15	112138.980	2.0	122609.760	1.0
954.7795	24.00	-4.39	36577.730	4.0	47048.480	3.0
954.7890	20.00	-4.23	35835.413	2.0	46306.059	3.0
954.8368	20.00	-.91	36575.119	2.0	47045.241	3.0
954.8552	28.01	-3.35	120281.110	4.5	130751.030	5.5
954.8835	9.02	-2.18	442278.930	2.5	452748.540	2.5
954.9091	10.01	-3.72	281332.550	.5	291801.880	1.5
954.9118	28.01	-2.19	118828.610	2.5	129297.910	3.5
954.9163	25.00	-4.70	51560.930	5.5	62030.180	4.5
954.9264	29.01	-2.34	135958.460	1.0	146427.600	1.0
954.9300	10.01	-1.50	281025.940	2.5	291495.040	2.5
954.9364	28.01	-4.62	106369.300	1.5	116838.330	1.5
954.9373	28.01	-3.29	118927.020	4.5	129396.040	5.5
954.9619	29.01	-3.19	135934.150	5.0	146402.900	5.0
954.9647	10.01	-.41	318196.750	5.5	328665.470	4.5
954.9772	26.00	-4.61	44411.137	1.0	54879.720	2.0
954.9784	10.01	-2.24	318196.750	5.5	328665.320	5.5
954.9802	10.01	-.34	318196.770	6.5	328665.320	5.5
954.9884	28.01	-2.80	120222.890	1.5	130691.350	1.5
954.9922	22.00	-.77	28638.832	2.0	39107.250	1.0
955.0088	20.00	-2.63	35835.413	2.0	46303.649	2.0
955.0267	28.01	-3.33	120002.860	3.5	130470.900	4.5
955.0431	26.01	-2.48	50157.610	4.5	60625.470	5.5
955.0532	24.00	-3.63	46905.030	4.0	57372.780	4.0
955.0559	10.01	-.07	302989.820	1.5	313457.540	2.5
955.0860	25.00	-.04	47154.510	1.5	57621.900	1.5
955.0893	26.00	-1.73	40231.312	2.0	50698.666	2.0
955.1371	6.00	-3.84	68856.330	1.0	79323.160	0.0
955.1435	27.00	-4.82	44480.140	2.5	54946.900	2.5
955.1563	27.00	-4.44	23207.760	1.5	33674.380	2.5
955.1617	20.00	-2.25	35835.413	2.0	46301.973	1.0
955.1709	27.00	-1.68	44394.470	3.5	54860.930	4.5
955.2308	9.00	-1.78	117872.916	1.5	128338.720	.5
955.2694	29.01	-2.37	138177.220	2.0	148642.600	2.0
955.2724	22.00	-4.38	25493.722	2.0	35959.070	1.0
955.2868	24.00	-3.80	35501.260	3.0	45966.450	2.0
955.2914	18.01	-2.25	185624.730	3.5	196089.870	2.5
955.3042	8.01	.60	255465.200	3.5	265930.200	4.5
955.3099	22.00	-4.48	37743.933	3.0	48208.870	3.0
955.3128	9.00	-1.62	117622.923	2.5	128087.829	2.5
955.3144	20.00	-1.66	36575.119	2.0	47040.007	2.0
955.3316	10.01	-.38	302307.750	2.5	312772.450	2.5
955.3453	18.00	-2.88	115366.900	1.0	125831.450	0.0
955.3625	18.01	.20	189414.960	3.5	199879.320	3.5
955.3716	10.01	.11	302307.750	2.5	312772.010	3.5
955.3853	18.01	-2.27	204977.590	2.5	215441.700	3.5
955.3918	25.00	-2.21	52015.000	3.5	62479.040	4.5
955.4000	17.00	-1.57	91069.020	.5	101532.970	1.5
955.4057	22.00	-2.48	17423.853	2.0	27887.740	3.0
955.4162	22.00	-3.00	38451.298	2.0	48915.070	2.0
955.4457	24.00	-4.34	46637.210	3.0	57100.660	2.0
955.4730	29.01	-1.99	135952.550	2.0	146415.700	2.0
955.5058	17.00	-2.64	74225.846	1.5	84688.637	.5
955.5087	24.00	-2.95	35618.510	1.0	46081.270	0.0
955.5370	6.00	-3.59	68856.330	1.0	79318.780	1.0
955.5498	18.00	-3.75	112138.980	2.0	122601.290	1.0
955.5537	14.00	-4.44	50499.838	2.0	60962.105	2.0
955.6015	28.00	-2.34	44206.185	3.0	54667.928	4.0
955.6036	28.01	-2.56	120268.810	3.5	130730.530	2.5
955.6055	8.01	.31	255301.300	2.5	265763.000	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
955.6320	23.00	-4.03	20767.570	3.5	31228.980	2.5
955.6513	26.00	-3.48	26224.961	3.0	36686.159	4.0
955.6521	27.00	-3.00	43242.950	2.5	53704.140	2.5
955.6598	20.00	-2.84	36575.119	2.0	47036.225	1.0
955.6786	15.00	-1.41	65585.000	2.5	76045.900	2.5
955.6786	13.01	-.63	132819.700	3.0	143280.600	4.0
955.6969	8.01	-2.10	255301.300	2.5	265762.000	1.5
955.7096	24.00	-4.36	48661.590	3.0	59122.150	3.0
955.7096	29.01	-2.89	136035.640	3.0	146496.200	3.0
955.8357	27.00	-3.19	43242.950	2.5	53702.130	3.5
955.8503	10.01	-2.42	302961.070	1.5	313420.090	2.5
955.8851	28.01	-3.31	121161.810	1.5	131620.450	1.5
955.8906	24.00	-4.60	35618.510	1.0	46077.090	1.0
955.8924	28.01	-2.78	120271.970	2.5	130730.530	2.5
955.8942	28.01	-3.09	121178.560	3.5	131637.100	3.5
955.9463	10.01	-.59	302961.070	1.5	313419.040	1.5
955.9472	28.00	-2.72	44314.980	4.0	54772.940	3.0
955.9617	20.00	-1.96	38219.118	2.0	48676.920	1.0
955.9617	20.00	-1.49	38219.118	2.0	48676.920	2.0
955.9617	20.00	-1.90	38219.118	2.0	48676.920	3.0
955.9673	10.01	.43	302307.750	2.5	312765.490	3.5
955.9683	10.01	-.88	291968.140	.5	302425.870	1.5
955.9746	28.01	-4.71	105499.050	3.5	115956.710	2.5
955.9802	13.01	-1.15	138811.900	2.0	149269.500	2.0
955.9802	13.01	-.41	138811.900	1.0	149269.500	2.0
955.9802	13.01	-.61	138811.900	2.0	149269.500	3.0
955.9802	13.01	-2.69	138811.900	3.0	149269.500	2.0
955.9802	13.01	-1.52	138811.900	3.0	149269.500	3.0
955.9802	13.01	-.08	138811.900	3.0	149269.500	4.0
956.0130	29.01	-3.17	135958.460	1.0	146415.700	2.0
956.0752	28.01	-2.98	121180.540	4.5	131637.100	3.5
956.0798	28.01	-2.20	118939.530	5.5	129396.040	5.5
956.1072	24.00	-2.83	46905.030	4.0	57361.240	3.0
956.1216	14.00	-2.25	50189.389	2.0	60645.441	2.0
956.1365	28.01	-2.16	118828.610	2.5	129284.500	2.5
956.1621	18.00	-1.75	112750.220	4.0	123205.830	3.0
956.2055	17.00	-1.91	85442.430	1.5	95897.565	1.5
956.2200	3.01	-.67	491361.000	0.0	501818.844	0.0
956.2250	28.00	-.72	45418.858	2.0	55873.780	2.0
956.2471	18.02	-4.27	240257.590	1.0	250712.270	2.0
956.2618	6.00	-3.94	68856.330	1.0	79310.850	2.0
956.2691	24.00	-3.55	46783.060	4.0	57237.500	4.0
956.2938	28.01	-2.06	106620.530	3.5	117074.700	3.5
956.3075	6.00	-3.08	78340.280	1.0	88794.300	2.0
956.3112	29.01	-3.66	138177.220	2.0	148631.200	3.0
956.3395	15.00	-.15	56090.450	1.5	66544.120	2.5
956.3551	10.01	-2.29	281998.280	2.5	292451.780	1.5
956.3576	28.00	-2.61	48735.308	2.0	59188.780	3.0
956.3683	26.00	-1.59	39969.830	3.0	50423.185	4.0
956.3947	26.00	-4.70	43922.652	3.0	54375.719	2.0
956.4045	10.01	-.66	291495.040	2.5	301948.000	1.5
956.4214	22.00	-3.62	25643.695	3.0	36096.470	3.0
956.4328	22.00	-4.03	37654.770	2.0	48107.420	2.0
956.4594	24.00	-2.80	44534.460	4.0	54986.820	3.0
956.4802	26.00	-2.24	40842.130	3.0	51294.262	3.0
956.5271	27.00	-4.50	43242.950	2.5	53694.570	3.5
956.5582	29.01	-1.48	138064.320	5.0	148515.600	4.0
956.5701	28.01	-4.16	105861.190	2.5	116312.340	1.5
956.5857	9.02	-3.33	457376.180	.5	467827.160	1.5
956.5976	18.01	-1.23	192556.840	2.5	203007.690	1.5
956.6232	6.00	-3.54	78340.280	1.0	88790.850	1.0
956.6662	13.01	-2.03	132819.700	3.0	143269.800	3.0
956.6846	13.01	-1.13	132819.900	2.0	143269.800	3.0
956.6891	18.01	-1.41	194800.180	4.5	205250.030	3.5
956.7313	22.00	-3.88	31373.801	3.0	41823.190	3.0
956.7349	28.01	-4.75	106283.160	2.5	116732.510	2.5
956.7917	20.01	-.44	74484.920	.5	84933.650	1.5
956.8310	17.01	-.94	139350.000	1.0	149798.300	2.0
956.8493	8.01	-2.24	265431.500	2.5	275879.600	2.5
956.8493	8.01	-2.57	265431.500	2.5	275879.600	3.5
956.8530	24.00	-3.38	20517.400	2.0	30965.460	3.0
956.8539	14.00	-3.02	49188.617	2.0	59636.667	1.0
956.8677	29.01	-2.28	137913.800	1.0	148361.700	1.0
956.8823	23.00	-2.94	15724.220	3.5	26171.960	4.5
956.9219	28.00	-4.52	47139.392	2.0	57586.700	2.0
956.9857	26.00	-1.39	40257.300	5.0	50703.912	5.0
956.9943	14.00	-4.05	47351.554	2.0	57798.072	2.0
956.9966	22.00	-.60	28702.768	3.0	39149.260	2.0
957.0082	28.00	-1.17	44314.980	4.0	54761.346	4.0
957.0179	6.00	-3.85	78199.070	2.0	88645.330	1.0
957.0179	6.00	-2.68	78199.070	2.0	88645.330	2.0
957.0271	28.00	-3.50	48671.900	3.0	59118.060	2.0
957.0417	13.01	-1.36	123468.100	3.0	133914.100	2.0
957.0555	18.01	-2.16	204996.090	3.5	215441.940	4.5
957.0639	14.00	-1.87	49060.601	1.0	59506.359	2.0
957.0775	18.01	-3.70	204996.090	3.5	215441.700	3.5
957.0894	26.00	-4.95	44166.240	3.0	54611.720	2.0
957.1141	24.00	-3.40	44373.340	3.0	54818.550	2.0
957.1352	17.00	-.84	91089.450	3.5	101534.430	4.5
957.1426	22.00	-4.81	31373.801	3.0	41818.700	4.0
957.1526	13.02	.50	178433.430	.5	188878.220	1.5
957.1535	28.01	-2.72	121192.320	3.5	131637.100	3.5
957.1755	24.00	-2.02	20520.920	3.0	30965.460	3.0
957.1828	25.00	-4.41	52128.650	2.5	62573.110	1.5
957.1920	26.00	-3.87	36975.640	3.0	47420.000	2.0
957.1929	25.02	-3.89	208751.600	4.5	219195.950	4.5
957.2204	23.00	-7.13	14548.830	2.5	24992.880	3.5
957.2653	17.00	-3.50	91089.450	3.5	101533.010	2.5
957.3099	26.00	-3.74	43325.946	3.0	53769.020	4.0
957.3166	13.01	-3.21	132819.700	3.0	143262.700	2.0
957.3203	28.01	-4.00	121194.140	2.5	131637.100	3.5
957.3295	25.02	-2.17	181949.340	2.5	192392.200	3.5
957.3350	13.01	-1.66	132819.900	2.0	143262.700	2.0
957.3350	13.01	-.93	132819.900	1.0	143262.700	2.0
957.3973	10.00	-4.56	159534.620	1.0	169976.740	0.0
957.4148	29.01	-3.11	138073.670	4.0	148515.600	4.0
957.4294	24.00	-1.33	20523.690	4.0	30965.460	3.0
957.4359	15.00	-1.73	69894.600	1.5	80336.300	2.5
957.4459	26.01	-4.69	74606.970	2.5	85048.560	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
957.4639	22.00	-4.35	11639.804	3.0	22081.198	2.0
957.4670	9.01	.33	254014.830	1.0	264456.190	2.0
957.4836	9.00	-.96	117622.923	2.5	128064.103	3.5
957.4888	26.00	-2.09	42911.897	5.0	53353.020	6.0
957.5193	9.01	-.40	254015.400	2.0	264456.190	2.0
957.5193	9.01	.50	254015.400	2.0	264456.190	3.0
957.5395	27.00	-2.47	43263.570	1.5	53704.140	2.5
957.5771	25.00	-3.66	51560.930	5.5	62001.090	6.5
957.5798	15.00	-3.77	65373.470	.5	75813.600	.5
957.5954	26.00	-3.63	40421.890	4.0	50861.850	3.0
957.6055	23.00	-2.52	20789.130	2.5	31228.980	2.5
957.6165	18.01	.11	194861.270	2.5	205301.000	2.5
957.6183	9.01	-1.95	254016.480	3.0	264456.190	2.0
957.6183	9.01	-.40	254016.480	3.0	264456.190	3.0
957.6275	17.00	-1.85	87979.490	3.5	98419.100	2.5
957.6293	18.01	-1.24	194861.270	2.5	205300.860	1.5
957.6394	9.01	.66	254016.480	3.0	264455.960	4.0
957.6468	17.00	-1.22	87979.490	3.5	98418.890	3.5
957.6624	6.00	-3.68	78199.070	2.0	88638.300	2.0
957.6624	6.00	-2.18	78199.070	2.0	88638.300	3.0
957.6651	28.01	-3.41	104503.220	2.5	114942.420	1.5
957.6651	18.01	-1.83	192712.000	1.5	203151.200	2.5
957.6974	20.00	-2.52	37748.197	1.0	48187.045	2.0
957.6982	28.01	-4.62	104646.520	3.5	115085.360	3.5
957.7009	10.01	-.06	283894.410	.5	294333.220	.5
957.7027	10.01	.20	292451.780	1.5	302890.570	2.5
957.7138	28.00	-3.92	47328.850	2.0	57767.520	1.0
957.7330	24.00	-4.48	33934.880	3.0	44373.340	3.0
957.8119	9.00	-4.23	116143.579	.5	126581.180	.5
957.8557	20.00	-2.13	37751.867	2.0	48188.990	3.0
957.8686	26.00	-4.34	43108.899	4.0	53545.882	3.0
957.8697	26.00	-3.84	47834.529	5.0	58271.500	5.0
957.8808	25.00	-2.88	51638.170	2.5	62075.020	2.5
957.8817	28.00	-3.87	44336.100	4.0	54772.940	3.0
957.9221	24.00	-3.68	35640.690	0.0	46077.090	1.0
957.9341	9.01	-4.85	254014.830	1.0	264451.100	2.0
957.9480	26.00	-4.76	40894.972	2.0	51331.090	2.0
957.9514	28.01	-3.10	94067.140	1.5	104503.220	2.5
957.9838	26.00	-9.07	12560.933	3.0	22996.661	4.0
957.9863	9.01	-4.92	254015.400	2.0	264451.100	2.0
957.9863	9.01	-4.31	254015.400	2.0	264451.100	3.0
957.9955	28.01	-2.20	120044.950	4.5	130480.550	3.5
958.0315	20.00	-2.78	37751.867	2.0	48187.075	3.0
958.0341	25.00	-.02	45754.270	3.5	56189.450	4.5
958.0342	20.00	-3.65	37751.867	2.0	48187.045	2.0
958.0588	6.00	-2.58	78199.070	2.0	88633.980	3.0
958.0643	17.00	-3.07	91089.450	3.5	101524.300	2.5
958.0653	28.01	-3.20	104646.520	3.5	115081.360	4.5
958.0735	27.00	-1.71	43847.980	3.5	54282.730	2.5
958.0754	17.00	-4.67	91089.450	3.5	101524.180	3.5
958.0855	9.01	-4.79	254016.480	3.0	264451.100	3.0
958.0947	9.01	-4.09	254016.480	3.0	264451.000	4.0
958.0965	28.01	-4.05	95573.390	3.5	106007.890	2.5
958.1553	18.00	-4.44	114641.040	2.0	125074.900	2.0
958.2113	29.01	-4.51	135990.150	3.0	146423.400	4.0
958.2122	23.00	-2.98	15688.800	2.5	26122.040	3.5
958.2122	18.01	-2.56	200151.640	1.5	210584.880	1.5
958.2967	23.00	-3.41	15571.900	2.5	26004.220	2.5
958.2977	17.00	-1.67	91089.450	3.5	101521.760	3.5
958.3196	14.00	-4.41	53362.240	3.0	63794.310	2.0
958.3365	17.00	-1.40	91089.450	3.5	101521.336	4.5
958.3665	18.00	-3.54	114641.040	2.0	125072.600	1.0
958.3952	26.00	-3.16	43137.472	3.0	53568.720	2.0
958.4800	17.00	-.40	72488.568	1.5	82918.893	2.5
958.5209	27.00	-3.22	43295.320	4.5	53725.200	4.5
958.5264	6.00	-3.71	78215.510	3.0	88645.330	2.0
958.5403	20.00	-2.19	37757.449	3.0	48187.118	4.0
958.5443	20.00	-3.26	37757.449	3.0	48187.075	3.0
958.5470	20.00	-4.80	37757.449	3.0	48187.045	2.0
958.5922	14.00	-2.59	39760.285	1.0	50189.389	2.0
958.6487	29.01	-1.82	138130.810	3.0	148559.300	2.0
958.6588	28.01	-3.13	118939.530	5.5	129367.910	6.5
958.7001	18.01	.14	194822.100	3.5	205250.030	3.5
958.7306	22.00	-3.77	31489.451	4.0	41917.050	4.0
958.7360	18.01	-2.44	190196.160	.5	200623.700	.5
958.7875	17.00	-2.31	90749.360	2.5	101176.340	2.5
958.8004	25.00	-4.88	56356.210	3.5	66783.050	3.5
958.8030	17.00	-1.01	90749.360	2.5	101176.171	3.5
958.8096	29.01	-2.77	136133.060	4.0	146559.800	4.0
958.8132	6.00	-3.31	78340.280	1.0	88766.980	1.0
958.8233	28.01	-2.81	101357.200	4.5	111783.790	3.5
958.8335	28.01	-1.20	116312.340	1.5	126738.820	1.5
958.8491	28.01	-2.48	121194.140	2.5	131620.450	1.5
958.8629	25.00	-3.45	44978.980	1.5	55405.140	2.5
958.8758	27.00	-3.35	35450.560	3.5	45876.580	2.5
958.8769	22.00	-.59	28788.372	4.0	39214.380	3.0
958.8794	28.01	-3.91	98122.630	.5	108548.610	1.5
958.8822	28.01	-1.11	120044.950	4.5	130470.900	4.5
958.8896	23.00	-4.27	33640.180	4.5	44066.050	3.5
958.9107	28.01	-4.59	121325.090	2.5	131750.730	3.5
958.9190	29.01	-2.17	135990.150	3.0	146415.700	2.0
958.9470	28.00	-2.33	44336.100	4.0	54761.346	4.0
958.9659	18.00	-4.19	115366.900	1.0	125791.940	2.0
958.9834	27.00	-4.41	44480.140	2.5	54904.990	2.5
959.0055	22.00	-1.51	25926.820	4.0	36351.430	5.0
959.0800	28.01	-1.96	118874.110	3.5	129297.910	3.5
959.1039	29.01	-1.80	136133.060	4.0	146556.600	3.0
959.1315	29.01	-3.43	123304.630	1.0	133727.870	2.0
959.1729	6.00	-4.62	78215.510	3.0	88638.300	2.0
959.1729	6.00	-2.33	78215.510	3.0	88638.300	3.0
959.2042	27.00	-1.73	42434.230	2.5	52856.680	3.5
959.2088	29.01	-3.76	128558.900	3.0	138981.300	2.0
959.2222	17.00	.34	74225.846	1.5	84648.100	2.5
959.2406	22.00	-4.13	25643.695	3.0	36065.750	3.0
959.2646	22.00	-3.46	25537.276	1.0	35959.070	1.0
959.2824	26.00	-3.67	43325.946	3.0	53747.547	3.0
959.3313	14.00	-1.00	53362.240	3.0	63783.310	4.0
959.3524	18.00	-3.34	113716.610	3.0	124137.450	2.0
959.3533	23.00	-2.38	26604.770	3.5	37025.600	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
959.3543	15.00	-.18	55939.300	.5	66360.120	1.5
959.3672	18.00	-2.18	113716.610	3.0	124137.290	3.0
959.3736	18.02	-3.70	240291.660	2.0	250712.270	2.0
959.3819	10.01	-.11	292651.320	1.5	303071.840	2.5
959.4868	28.01	-2.73	120271.970	2.5	130691.350	1.5
959.5098	18.00	-2.04	113716.610	3.0	124135.740	3.0
959.5098	18.00	-.79	113716.610	3.0	124135.740	4.0
959.5190	15.01	-1.81	107923.570	2.0	118342.600	1.0
959.5439	18.00	-3.78	114641.040	2.0	125059.800	2.0
959.5467	10.01	-.15	302425.870	1.5	312844.600	1.5
959.5609	26.00	-3.93	47555.584	1.0	57974.160	2.0
959.5623	6.00	-1.96	78215.510	3.0	88634.070	4.0
959.5706	19.00	-1.73	21534.700	2.5	31953.170	2.5
959.5706	19.00	-.43	21534.700	2.5	31953.170	3.5
959.5706	6.00	-3.15	78215.510	3.0	88633.980	3.0
959.5848	26.00	-4.22	33765.291	2.0	44183.607	2.0
959.6139	18.01	-1.19	194883.000	3.5	205301.000	2.5
959.6327	20.00	-2.07	38259.124	3.0	48676.920	2.0
959.6327	20.00	-1.06	38259.124	3.0	48676.920	3.0
959.6388	10.01	-1.43	302425.870	1.5	312843.600	.5
959.6766	23.01	-2.70	62133.390	3.0	72550.710	4.0
959.6876	26.02	-2.39	219004.530	4.0	229421.730	4.0
959.6950	28.01	-4.74	106369.300	1.5	116786.420	.5
959.7153	18.00	-3.17	115366.900	1.0	125783.800	1.0
959.7171	9.01	-4.28	254541.410	4.0	264958.290	3.0
959.7217	9.01	-4.82	254541.460	3.0	264958.290	3.0
959.7450	14.00	-4.43	54257.582	3.0	64674.160	4.0
959.7484	29.01	-3.11	125247.800	2.0	135664.340	1.0
959.7586	27.00	-4.52	44480.140	2.5	54896.570	3.5
959.7614	8.01	.20	248185.300	2.5	258601.700	1.5
959.7789	6.00	-3.73	77679.820	2.0	88096.030	2.0
959.7816	25.02	-2.90	181949.340	2.5	192365.520	1.5
959.7825	19.00	-.58	21537.000	1.5	31953.170	2.5
959.7853	27.00	-1.20	36329.860	2.5	46746.000	2.5
959.7973	23.00	-4.88	17054.870	2.5	27470.880	3.5
959.7991	23.00	-1.95	20812.990	1.5	31228.980	2.5
959.8378	24.00	-4.30	36552.130	3.0	46967.700	2.0
959.8525	17.00	-4.91	91127.030	2.5	101542.440	1.5
959.8562	27.00	-3.75	43952.060	5.5	54367.430	5.5
959.8645	25.00	-.76	45940.930	2.5	56356.210	3.5
959.9217	20.01	-.18	74521.750	1.5	84936.410	2.5
959.9337	18.01	-1.05	194800.180	4.5	205214.710	3.5
959.9337	18.01	-.26	194800.180	4.5	205214.710	4.5
959.9484	10.01	-.59	292546.700	.5	302961.070	1.5
959.9542	22.00	-1.44	6661.003	3.0	17075.310	4.0
959.9632	28.01	-3.35	119773.600	6.5	130187.810	6.5
959.9798	22.00	-4.19	31489.451	4.0	41903.480	5.0
959.9908	25.00	-4.16	34845.260	.5	45259.170	1.5
960.0434	29.01	-2.18	136014.260	2.0	146427.600	1.0
960.1301	15.03	.31	293246.600	3.0	303659.000	4.0
960.1494	6.00	-2.39	77679.820	2.0	88092.010	1.0
960.1521	9.01	-4.91	254546.130	4.0	264958.290	3.0
960.1761	20.01	-1.14	74521.750	1.5	84933.650	1.5
960.1816	18.01	.13	194800.180	4.5	205212.020	4.5
960.1936	18.01	1.03	194800.180	4.5	205211.890	5.5
960.1946	29.01	-2.70	128569.600	2.0	138981.300	2.0
960.2038	15.00	-1.50	69924.700	2.5	80336.300	2.5
960.2149	25.00	-1.54	52015.000	3.5	62426.480	3.5
960.2222	8.01	-1.82	265468.200	1.5	275879.600	2.5
960.2278	14.00	-3.80	53362.240	3.0	63773.580	2.0
960.2296	22.00	-1.70	25797.600	3.0	36208.920	4.0
960.2379	9.01	-4.58	254541.460	3.0	264952.690	2.0
960.2472	29.01	-1.63	138220.070	4.0	148631.200	3.0
960.2545	14.00	-2.58	53362.240	3.0	63773.290	3.0
960.2601	23.00	-3.88	20789.130	2.5	31200.120	1.5
960.2804	27.00	-2.58	43847.980	3.5	54258.750	2.5
960.3034	6.00	-1.20	60333.430	0.0	70743.950	1.0
960.3090	28.01	-4.50	121385.800	1.5	131796.260	2.5
960.3145	18.00	-3.48	115366.900	1.0	125777.300	1.0
960.3154	28.01	-2.58	118874.110	3.5	129284.500	2.5
960.3274	56.01	.28	49390.050	0.0	59803.165	0.0
960.3420	2.00	-1.63	184865.000	0.0	195277.957	0.0
960.3698	8.01	-1.59	265431.500	2.5	275841.300	3.5
960.4280	20.00	-1.03	35896.889	4.0	46306.059	3.0
960.4400	22.01	-4.83	20891.880	3.5	31300.920	4.5
960.4962	28.00	-3.47	48817.600	1.0	59226.030	1.0
960.4981	26.00	-3.93	43137.472	3.0	53545.882	3.0
960.5055	29.01	-1.58	138073.670	4.0	148482.000	3.0
960.5164	22.00	-1.78	38451.298	2.0	48859.510	1.0
960.5230	24.00	-4.56	36577.730	4.0	46985.870	5.0
960.5451	8.01	-3.05	265856.000	2.5	276263.900	1.5
960.5451	13.02	-.20	178470.320	1.5	188878.220	1.5
960.5904	28.01	-3.68	118877.090	1.5	129284.500	2.5
960.6051	13.02	.76	178470.320	1.5	188877.570	2.5
960.6190	24.01	-4.84	74318.860	2.5	84725.960	3.5
960.6304	14.00	-2.32	53387.334	1.0	63794.310	2.0
960.6375	25.00	-1.74	46083.890	1.5	56490.790	2.5
960.6458	27.00	-1.39	43295.320	4.5	53702.130	3.5
960.6707	25.00	-.19	47299.290	.5	57705.830	.5
960.6873	9.01	-3.71	254546.330	3.0	264952.690	2.0
960.6903	14.00	-.42	54257.582	3.0	64663.910	4.0
960.6930	22.00	-.74	28896.062	5.0	39302.360	4.0
960.7021	9.01	-4.56	254546.490	2.0	264952.690	2.0
960.7034	14.00	-3.15	53387.334	1.0	63793.520	1.0
960.7113	29.01	-3.23	118163.500	2.0	128569.600	2.0
960.7224	17.00	-2.19	91127.030	2.5	101533.010	2.5
960.7261	17.00	-2.74	91127.030	2.5	101532.970	1.5
960.7510	18.01	-4.08	189040.870	1.5	199446.540	.5
960.7698	26.00	-3.44	48304.623	2.0	58710.090	3.0
960.8342	10.01	-2.30	280797.260	2.5	291202.030	3.5
960.8600	25.00	.38	46901.130	2.5	57305.620	3.5
960.8692	27.00	-3.78	43952.060	5.5	54356.450	4.5
960.8840	24.00	-4.50	31377.960	4.0	41782.190	4.0
960.8840	17.00	-1.28	87979.490	3.5	98383.720	3.5
960.8883	26.00	-3.56	40207.120	3.0	50611.303	3.0
960.8978	22.00	-3.93	37654.770	2.0	48058.850	1.0
960.9024	15.00	-.88	55939.300	.5	66343.330	.5
960.9070	18.01	-4.75	173393.380	2.5	183797.360	2.5
960.9107	17.00	-.52	87979.490	3.5	98383.430	4.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
960.9329	8.01	-1.13	255301.300	2.5	265705.000	2.5
960.9477	24.00	-4.73	46783.060	4.0	57186.600	3.0
960.9560	24.00	-1.83	46985.870	5.0	57389.320	6.0
960.9847	28.01	-2.49	99442.860	4.5	109846.000	3.5
961.0179	25.00	-3.54	31001.150	2.5	41403.930	2.5
961.0373	18.01	-1.76	190942.650	.5	201345.220	1.5
961.0576	9.02	-4.95	431967.930	.5	442370.280	.5
961.0660	17.00	-3.58	90487.870	3.5	100890.130	2.5
961.0867	26.00	-4.29	42991.680	5.0	53393.715	4.0
961.0900	29.01	-.53	137614.300	0.0	148016.300	1.0
961.0914	17.00	-2.55	90487.870	3.5	100889.855	3.5
961.1417	29.01	-2.49	136014.260	2.0	146415.700	2.0
961.1602	23.00	-1.95	15770.720	4.5	26171.960	4.5
961.2120	14.00	-2.15	53362.240	3.0	63762.920	4.0
961.2369	23.00	-5.87	14514.750	1.5	24915.160	1.5
961.2508	18.01	1.09	208803.240	4.5	219203.500	5.5
961.2508	18.01	-.73	208803.240	5.5	219203.500	5.5
961.2508	18.01	1.16	208803.240	5.5	219203.500	6.5
961.2517	22.00	-3.76	35757.510	4.0	46157.760	5.0
961.2776	28.01	-4.83	118897.940	2.5	129297.910	3.5
961.2785	14.00	-2.36	53362.240	3.0	63762.200	3.0
961.3210	8.01	-.05	248009.100	1.5	258408.600	.5
961.3441	27.00	-2.16	43295.320	4.5	53694.570	3.5
961.3793	29.01	-1.57	136160.930	5.0	146559.800	4.0
961.4061	10.01	-1.32	303071.840	2.5	313470.420	2.5
961.4079	18.00	-4.80	114641.040	2.0	125039.600	1.0
961.4551	10.01	-1.75	303071.840	2.5	313469.890	3.5
961.4597	25.00	-2.64	46169.930	.5	56567.930	1.5
961.4763	23.00	-2.26	15724.220	3.5	26122.040	3.5
961.5272	17.00	-1.70	91127.030	2.5	101524.300	2.5
961.5275	26.00	-2.79	48122.913	3.0	58520.180	4.0
961.5383	17.00	-1.36	91127.030	2.5	101524.180	3.5
961.5587	24.00	-4.15	37233.500	5.0	47630.430	6.0
961.5768	22.00	-4.56	19421.576	3.0	29818.310	3.0
961.5966	22.00	-2.10	25699.950	2.0	36096.470	3.0
961.6400	18.01	-3.23	200138.850	3.5	210534.900	4.5
961.6567	25.00	-3.46	51638.170	2.5	62034.040	3.5
961.6643	26.00	-2.96	47606.092	5.0	58001.880	6.0
961.6716	14.00	-4.13	50566.397	1.0	60962.105	2.0
961.7002	29.01	-4.38	118163.500	2.0	128558.900	3.0
961.7621	17.00	-.95	91127.030	2.5	101521.760	3.5
961.8325	26.00	-3.65	47420.000	2.0	57813.970	3.0
961.8353	17.00	-1.37	87979.490	3.5	98373.430	2.5
961.8667	13.01	-2.38	132776.400	0.0	143170.000	1.0
961.8723	24.00	-4.51	46967.700	2.0	57361.240	3.0
961.8751	24.00	-4.19	35572.940	2.0	45966.450	2.0
961.8917	24.00	-4.57	33906.650	1.0	44299.980	2.0
961.9288	9.02	-4.07	457376.180	.5	467769.110	.5
961.9331	28.00	-4.39	40361.254	3.0	50754.137	2.0
961.9482	10.01	-1.16	292033.150	2.5	302425.870	1.5
961.9584	18.01	-2.68	194822.100	3.5	205214.710	3.5
961.9584	18.01	.60	194822.100	3.5	205214.710	4.5
962.0491	28.01	-4.37	111783.790	3.5	122175.420	2.5
962.0528	25.00	-2.62	45013.550	2.5	55405.140	2.5
962.0777	6.00	-.57	60352.630	1.0	70743.950	1.0
962.0868	26.00	-5.00	44022.518	4.0	54413.740	3.0
962.0975	26.00	-4.81	28604.610	2.0	38995.717	1.0
962.1130	23.00	-4.27	33527.640	2.5	43918.580	2.5
962.1489	22.00	-3.84	31628.668	5.0	42019.220	6.0
962.1537	27.00	-4.53	43398.620	3.5	53789.120	3.5
962.1852	27.00	-3.03	43398.620	3.5	53788.780	4.5
962.2074	18.01	.68	194822.100	3.5	205212.020	4.5
962.2278	8.01	-.22	255301.300	2.5	265691.000	3.5
962.2296	25.00	-2.85	44978.980	1.5	55368.660	1.5
962.2609	22.00	-3.45	31628.668	5.0	42018.010	5.0
962.2732	26.00	-4.29	44166.240	3.0	54555.450	4.0
962.3026	26.00	-1.81	40491.260	0.0	50880.152	1.0
962.3149	18.01	.80	194861.270	2.5	205250.030	3.5
962.3242	18.01	-2.44	194861.270	2.5	205249.930	2.5
962.3520	6.00	-3.14	78249.940	4.0	88638.300	3.0
962.4075	29.01	-3.34	136035.640	3.0	146423.400	4.0
962.4315	10.01	-2.24	292451.780	1.5	302839.280	2.5
962.4501	13.01	-.49	138811.900	2.0	149199.200	3.0
962.4501	13.01	-1.39	138811.900	3.0	149199.200	3.0
962.4659	23.00	-2.62	20812.990	1.5	31200.120	1.5
962.4862	24.00	-2.72	46985.870	5.0	57372.780	4.0
962.5187	28.01	-3.52	118897.940	2.5	129284.500	2.5
962.5478	14.00	-1.76	53387.334	1.0	63773.580	2.0
962.5555	26.00	-2.88	40421.890	4.0	50808.053	4.0
962.5687	15.00	-1.88	65787.380	3.5	76173.400	3.5
962.5761	25.00	-1.99	52128.650	2.5	62514.590	2.5
962.6392	24.00	-2.94	23512.000	1.0	33897.260	1.0
962.6434	26.00	-1.23	40594.413	4.0	50979.627	4.0
962.6751	28.00	-1.94	44314.980	4.0	54699.852	3.0
962.6797	26.00	-1.87	42784.387	6.0	53169.210	6.0
962.6827	29.01	-3.70	138130.810	3.0	148515.600	4.0
962.7161	23.00	-3.11	26604.770	3.5	36989.200	2.5
962.7439	6.00	-1.84	78249.940	4.0	88634.070	4.0
962.7522	6.00	-3.40	78249.940	4.0	88633.980	3.0
962.7578	23.00	-8.59	14514.750	1.5	24898.730	2.5
962.7615	6.00	-2.48	78529.620	3.0	88913.560	2.0
962.7852	17.00	-1.30	90487.870	3.5	100871.554	3.5
962.7867	22.00	-4.67	31373.801	3.0	41757.470	3.0
962.7958	28.01	-2.09	118914.340	4.5	129297.910	3.5
962.8134	15.00	-.71	65450.020	1.5	75833.400	2.5
962.8172	17.00	-.33	90487.870	3.5	100871.209	4.5
962.8515	24.00	-1.79	27500.370	3.0	37883.340	2.0
962.8717	28.00	-2.59	48735.308	2.0	59118.060	2.0
962.8951	28.01	-3.47	119833.000	5.5	130215.500	4.5
962.9340	29.01	-3.69	138177.220	2.0	148559.300	2.0
962.9915	27.00	-2.12	43555.220	3.5	53936.680	2.5
962.9915	6.00	-2.32	77679.820	2.0	88061.280	1.0
963.0555	29.01	-1.81	138261.830	3.0	148642.600	2.0
963.0620	24.00	-4.79	31028.330	2.0	41409.030	2.0
963.0714	20.02	-4.53	363021.270	2.0	373401.870	3.0
963.1214	29.01	-2.66	136035.640	3.0	146415.700	2.0
963.1251	10.01	-1.17	292451.780	1.5	302831.800	.5
963.1530	24.01	-4.99	74114.480	3.5	84494.200	2.5
963.1724	28.01	-2.58	122790.410	4.5	133169.920	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
963.1901	24.00	-4.35	33671.550	3.0	44050.870	4.0
963.1919	12.01	-.64	93310.590	2.5	103689.890	2.5
963.1919	12.01	.66	93310.590	2.5	103689.890	3.5
963.2328	10.01	.24	302425.870	1.5	312804.730	2.5
963.2402	12.01	.50	93311.110	1.5	103689.890	2.5
963.2510	17.00	-.51	74865.667	.5	85244.330	.5
963.2673	20.00	-1.54	38192.392	1.0	48570.880	1.0
963.2673	20.00	-2.14	38192.392	1.0	48570.880	2.0
963.2968	10.01	-1.83	302425.870	1.5	312804.040	1.5
963.3133	16.00	-.55	67824.238	2.0	78202.230	3.0
963.3172	17.00	-2.62	90487.870	3.5	100865.820	2.5
963.3284	22.00	-2.14	25635.740	1.0	36013.570	2.0
963.3637	18.01	-1.78	189654.780	2.5	200032.230	1.5
963.3924	24.00	-4.89	37244.170	4.0	47621.310	3.0
963.4101	10.01	-4.14	318191.940	2.5	328568.890	1.5
963.4120	26.00	-1.23	40842.130	3.0	51219.059	3.0
963.4695	25.02	-4.97	208819.640	3.5	219195.950	4.5
963.4759	6.00	-1.07	78199.070	2.0	88575.310	3.0
963.5168	15.00	-1.48	69924.700	2.5	80300.500	3.5
963.5168	6.00	-2.63	78199.070	2.0	88574.870	3.0
963.5187	6.00	-3.05	78199.070	2.0	88574.850	2.0
963.5233	10.01	.52	328317.950	2.5	338693.680	3.5
963.5298	10.01	.64	328318.120	3.5	338693.780	4.5
963.5391	10.01	-.91	328318.120	3.5	338693.680	3.5
963.5484	18.01	-1.87	200151.640	1.5	210527.100	2.5
963.5763	28.01	-4.86	123434.600	4.5	133809.760	3.5
963.6083	26.00	-4.66	43499.485	4.0	53874.300	5.0
963.6181	28.01	-4.62	118923.200	3.5	129297.910	3.5
963.6641	26.00	-3.91	37046.000	4.0	47420.215	5.0
963.6933	28.01	-3.82	119833.000	5.5	130206.900	4.5
963.7927	27.00	-4.78	40827.770	1.5	51200.600	1.5
963.8122	28.01	-2.44	119833.000	5.5	130205.620	5.5
963.8256	22.00	-.64	6842.964	5.0	17215.440	5.0
963.8420	18.01	-.95	188766.150	2.5	199138.450	1.5
963.8773	24.00	-4.10	44299.980	2.0	54671.900	1.0
963.8828	20.02	.90	359800.570	3.0	370172.430	4.0
963.8977	15.00	-.63	65585.000	2.5	75956.700	3.5
963.9014	28.01	-4.29	104503.220	2.5	114874.880	2.5
963.9284	27.00	-3.83	43911.360	1.5	54282.730	2.5
963.9414	28.01	-3.62	105499.050	3.5	115870.280	2.5
963.9432	6.00	-3.78	75253.970	1.0	85625.180	0.0
963.9507	20.00	-2.15	38192.392	1.0	48563.522	2.0
963.9730	28.01	-4.47	118927.020	4.5	129297.910	3.5
963.9864	26.00	-2.38	43022.969	4.0	53393.715	4.0
963.9916	22.00	-1.91	38544.380	3.0	48915.070	2.0
964.0000	22.00	-2.94	17369.590	1.0	27740.190	2.0
964.0632	23.00	-2.16	20830.200	.5	31200.120	1.5
964.0674	22.00	-4.97	25643.695	3.0	36013.570	2.0
964.0708	26.00	-2.52	42911.897	5.0	53281.735	5.0
964.1143	29.01	-3.23	138261.830	3.0	148631.200	3.0
964.1181	18.01	-.51	190511.190	2.5	200880.520	3.5
964.1208	29.01	-2.96	118484.000	3.0	128853.300	2.0
964.1218	28.01	-3.81	92373.450	2.5	102742.740	1.5
964.1497	10.01	-.04	302475.610	.5	312844.600	1.5
964.1553	17.00	-2.87	91173.510	1.5	101542.440	1.5
964.2271	10.00	-4.73	159379.993	0.0	169748.150	1.0
964.2426	10.01	-.23	302475.610	.5	312843.600	.5
964.2487	26.00	-5.00	44511.795	2.0	54879.720	2.0
964.2610	28.00	-2.82	48671.900	3.0	59039.693	4.0
964.3319	18.01	-.62	194883.000	3.5	205250.030	3.5
964.3412	18.01	-1.09	194883.000	3.5	205249.930	2.5
964.3691	27.00	-4.73	22475.360	4.5	32841.990	4.5
964.3794	10.01	-1.75	318202.370	1.5	328568.890	1.5
964.3803	10.01	-1.05	318202.370	1.5	328568.880	.5
964.3812	10.01	-.79	318202.390	2.5	328568.890	1.5
964.3971	23.00	-6.60	14548.830	2.5	24915.160	1.5
964.5022	10.01	-.77	292451.780	1.5	302816.980	1.5
964.5031	23.01	-5.65	26839.820	3.0	37205.010	3.0
964.5161	27.00	-3.52	43295.320	4.5	53660.370	5.5
964.5515	9.00	-3.51	115917.909	2.5	126282.580	1.5
964.5832	24.00	-4.47	33935.650	2.0	44299.980	2.0
964.6175	7.01	-2.66	210705.260	2.0	221069.220	3.0
964.6369	28.00	-3.10	44336.100	4.0	54699.852	3.0
964.6418	8.01	-2.08	255301.300	2.5	265665.000	2.5
964.6502	27.00	-3.20	43952.060	5.5	54315.670	5.5
964.6529	15.00	-3.81	65450.020	1.5	75813.600	.5
964.6616	22.00	-4.34	37743.933	3.0	48107.420	2.0
964.6939	29.01	-2.42	136133.060	4.0	146496.200	3.0
964.7125	23.01	-3.14	62085.020	2.0	72447.960	3.0
964.7376	22.00	-1.46	6598.749	2.0	16961.420	3.0
964.8615	26.00	-3.46	42991.680	5.0	53353.020	6.0
964.8615	18.01	-1.26	200151.640	1.5	210512.980	1.5
964.8624	25.00	-4.65	52870.100	3.5	63231.430	4.5
964.8652	28.01	-3.67	118923.200	3.5	129284.500	2.5
964.8745	28.01	-4.62	111783.790	3.5	122144.990	2.5
964.8848	24.00	-3.84	39158.630	4.0	49519.720	3.0
964.9081	27.00	-2.74	43921.890	2.5	54282.730	2.5
964.9239	24.00	-3.45	35813.730	3.0	46174.400	3.0
964.9239	10.01	-.29	291495.040	2.5	301855.710	2.5
964.9286	10.01	-1.49	328317.950	2.5	338678.570	3.5
964.9351	8.01	-2.05	229968.200	1.5	240328.750	.5
964.9444	10.01	.08	328318.120	3.5	338678.570	3.5
964.9454	10.01	-.42	303071.840	2.5	313432.280	3.5
964.9508	12.00	-2.32	49346.729	1.0	59707.110	0.0
964.9567	10.00	-4.10	162899.113	2.0	173259.430	1.0
964.9571	16.00	.35	67841.917	3.0	78202.230	3.0
964.9676	18.01	-.68	194861.270	2.5	205221.470	1.5
965.0049	6.00	-3.73	78215.510	3.0	88575.310	3.0
965.0049	6.00	-.92	78215.510	3.0	88575.310	4.0
965.0329	17.00	-2.23	91173.510	1.5	101533.010	2.5
965.0366	17.00	-1.50	91173.510	1.5	101532.970	1.5
965.0459	6.00	-2.08	78215.510	3.0	88574.870	3.0
965.0478	6.00	-3.57	78215.510	3.0	88574.850	2.0
965.0701	27.00	-2.89	46186.410	1.5	56545.510	2.5
965.1066	26.00	-4.91	43210.011	2.0	53568.720	2.0
965.1158	23.00	-4.90	15571.900	2.5	25930.510	1.5
965.1260	29.01	-2.01	138003.200	2.0	148361.700	1.0
965.1624	22.00	-2.76	18593.990	3.0	28952.100	4.0
965.2313	22.00	-2.64	18525.070	2.0	28882.440	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
965.2733	28.01	-2.85	111783.790	3.5	122140.710	4.5
965.2845	25.00	-2.86	51718.220	1.5	62075.020	2.5
965.2853	14.00	-3.37	50499.838	2.0	60856.630	1.0
965.3065	26.00	-.77	38175.332	3.0	48531.896	3.0
965.3184	22.00	-4.87	37852.434	4.0	48208.870	3.0
965.3375	18.01	-1.06	201720.670	1.5	212076.900	2.5
965.3403	15.00	-1.81	69980.100	3.5	80336.300	2.5
965.4420	25.00	-3.13	45013.550	2.5	55368.660	1.5
965.4700	28.01	-1.72	119833.000	5.5	130187.810	6.5
965.4830	22.00	-3.88	35652.950	3.0	46007.620	4.0
965.5129	25.00	-1.83	58338.670	6.5	68693.020	5.5
965.5418	22.00	-2.58	25605.030	0.0	35959.070	1.0
965.5492	23.00	-3.97	17116.920	3.5	27470.880	3.5
965.5548	15.01	-.47	129570.400	1.0	139924.300	2.0
965.5642	28.02	-3.02	121802.800	3.0	132156.600	4.0
965.5688	10.01	-.51	294086.490	1.5	304440.240	.5
965.5716	22.00	-1.58	38670.710	4.0	49024.430	3.0
965.5978	18.01	-1.23	194861.270	2.5	205214.710	3.5
965.6005	28.01	-3.71	105838.060	3.5	116191.470	2.5
965.6436	28.00	-2.27	44314.980	4.0	54667.928	4.0
965.6481	24.00	-3.34	36552.130	3.0	46905.030	4.0
965.6695	24.00	-3.57	48507.560	1.0	58860.230	2.0
965.7176	26.00	-1.40	41018.029	2.0	51370.184	2.0
965.7469	6.00	-1.96	78293.490	1.0	88645.330	1.0
965.7469	6.00	-2.65	78293.490	1.0	88645.330	2.0
965.7535	29.01	-2.26	135863.930	1.0	146215.700	1.0
965.7542	20.00	-1.99	38219.118	2.0	48570.880	1.0
965.7542	20.00	-1.53	38219.118	2.0	48570.880	2.0
965.7542	20.00	-1.93	38219.118	2.0	48570.880	3.0
965.7553	7.01	-1.52	210705.260	2.0	221057.010	2.0
965.7782	18.00	-.68	93750.639	1.0	104102.144	1.0
965.7955	23.00	-2.84	15770.720	4.5	26122.040	3.5
965.8431	6.00	-.13	60393.140	2.0	70743.950	1.0
965.8449	17.00	-1.15	91173.510	1.5	101524.300	2.5
965.8907	13.01	-1.88	132819.700	3.0	143170.000	2.0
965.8972	7.01	-.51	211030.070	3.0	221380.300	3.0
965.8981	7.00	-2.43	94793.460	1.5	105143.680	2.5
965.9093	13.01	-2.71	132819.900	1.0	143170.000	1.0
965.9093	13.01	-2.50	132819.900	1.0	143170.000	0.0
965.9093	13.01	-3.80	132819.900	1.0	143170.000	2.0
965.9093	13.01	-2.24	132819.900	2.0	143170.000	1.0
965.9093	13.01	-2.63	132819.900	2.0	143170.000	2.0
965.9280	23.00	-6.93	14548.830	2.5	24898.730	2.5
965.9859	27.00	-1.96	44555.710	1.5	54904.990	2.5
965.9896	7.01	-.38	210705.260	2.0	221054.500	3.0
966.0120	7.00	-2.50	94770.850	.5	105119.850	1.5
966.0820	10.01	-2.34	303071.840	2.5	313420.090	2.5
966.0839	26.00	-3.63	34328.733	3.0	44676.963	4.0
966.1110	24.00	-4.93	35618.510	1.0	45966.450	2.0
966.1280	28.00	-3.60	40484.282	2.0	50832.039	3.0
966.1334	38.01	-1.63	64964.100	0.0	75314.638	0.0
966.1474	24.01	-3.89	59130.510	1.5	69478.060	2.5
966.1488	22.00	-1.54	17540.205	3.0	27887.740	3.0
966.1623	27.00	-3.17	43911.360	1.5	54258.750	2.5
966.1642	7.01	-1.84	211032.930	2.0	221380.300	3.0
966.1707	17.02	-3.05	198835.500	.5	209182.800	1.5
966.1800	10.01	-2.58	303071.840	2.5	313419.040	1.5
966.2001	17.00	-.19	84121.872	1.5	94468.857	.5
966.2067	9.00	-.46	117872.916	1.5	128219.830	1.5
966.2379	10.01	-.17	302425.870	1.5	312772.450	2.5
966.3248	22.00	-2.69	18482.860	1.0	28828.510	2.0
966.3640	20.00	-.79	38192.392	1.0	48537.623	1.0
966.3803	28.00	-3.22	40361.254	3.0	50706.310	4.0
966.4033	6.00	-1.40	78293.490	1.0	88638.300	2.0
966.4062	28.00	-.63	44314.980	4.0	54659.759	5.0
966.4134	22.00	-2.24	27480.047	3.0	37824.748	4.0
966.4248	29.01	-2.00	138177.220	2.0	148521.800	1.0
966.4412	20.00	-.88	38219.118	2.0	48563.522	2.0
966.4481	25.00	-3.09	45060.810	3.5	55405.140	2.5
966.4488	17.00	-3.07	85442.430	1.5	95786.752	2.5
966.5420	10.00	-.44	148257.790	1.0	158601.115	2.0
966.5479	12.00	-2.47	49346.729	1.0	59689.991	2.0
966.5752	25.00	-3.99	57621.900	1.5	67964.870	2.5
966.6014	28.00	-4.04	47424.830	1.0	57767.520	1.0
966.6761	24.00	-4.67	37244.170	4.0	47586.060	5.0
966.6892	18.00	-4.34	113716.610	3.0	124058.360	3.0
966.6892	18.00	-.63	113716.610	3.0	124058.360	4.0
966.7108	26.00	-2.72	47929.981	4.0	58271.500	5.0
966.7201	24.00	-2.18	20517.400	2.0	30858.820	2.0
966.8015	22.00	-3.40	31373.801	3.0	41714.350	2.0
966.9024	23.00	-3.00	15664.750	1.5	26004.220	2.5
966.9276	18.01	-2.54	191012.350	1.5	201351.550	2.5
966.9353	10.00	-3.45	162517.872	1.0	172856.990	1.0
966.9409	17.00	-1.14	88080.042	2.5	98419.100	2.5
966.9538	18.01	-4.17	200138.850	3.5	210477.770	3.5
966.9605	17.00	-.08	88080.042	2.5	98418.890	3.5
966.9744	13.01	-.37	139286.800	2.0	149625.500	3.0
967.0333	27.00	-2.31	42434.230	2.5	52772.300	2.5
967.0492	24.00	-1.47	20520.920	3.0	30858.820	2.0
967.0680	8.01	-1.58	255301.300	2.5	265639.000	3.5
967.0680	6.00	-2.44	78307.630	2.0	88645.330	1.0
967.0680	6.00	-2.11	78307.630	2.0	88645.330	2.0
967.0876	18.00	-3.67	113716.610	3.0	124054.100	3.0
967.1025	23.00	-2.09	26738.310	4.5	37075.640	4.5
967.1465	27.00	-2.64	43921.890	2.5	54258.750	2.5
967.1783	27.00	-1.45	44568.470	2.5	54904.990	2.5
967.1914	28.01	-3.41	120144.170	2.5	130480.550	3.5
967.2284	16.00	-.09	67815.401	1.0	78151.386	1.0
967.2532	16.00	-.57	67815.401	1.0	78151.121	2.0
967.3168	18.00	-3.06	113716.610	3.0	124051.650	2.0
967.3329	26.00	-4.21	43922.652	3.0	54257.520	2.0
967.3365	18.00	-1.32	113716.610	3.0	124051.440	3.0
967.3571	22.00	-3.42	25797.600	3.0	36132.210	4.0
967.3900	10.00	-3.73	162517.872	1.0	172852.130	0.0
967.4133	24.00	-2.16	47055.310	5.0	57389.320	6.0
967.4386	22.00	-4.95	31489.451	4.0	41823.190	3.0
967.5078	29.01	-2.60	138028.700	1.0	148361.700	1.0
967.5200	18.01	-.16	191012.350	1.5	201345.220	1.5
967.5462	28.01	-1.95	122837.330	4.5	133169.920	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
967.5497	22.00	-.84	6742.757	4.0	17075.310	4.0
967.5874	17.00	-1.39	92194.190	1.5	102526.340	2.5
967.6176	28.00	-3.43	44336.100	4.0	54667.928	4.0
967.6202	28.01	-4.28	119656.250	3.5	129988.050	2.5
967.6286	18.01	.23	194883.000	3.5	205214.710	3.5
967.6286	18.01	.69	194883.000	3.5	205214.710	4.5
967.6294	20.00	-.59	38192.392	1.0	48524.093	0.0
967.6459	26.00	-4.99	50423.185	4.0	60754.710	4.0
967.6506	26.00	-3.29	43499.485	4.0	53830.960	3.0
967.6520	25.00	.10	47154.510	1.5	57485.970	2.5
967.6577	26.00	-2.50	36940.600	2.0	47271.999	1.0
967.6642	27.00	-3.43	44183.340	4.5	54514.670	3.5
967.6989	16.00	-.71	70163.700	1.0	80494.660	2.0
967.7160	22.00	-4.58	15108.121	3.0	25438.898	2.0
967.7260	6.00	-1.55	78307.630	2.0	88638.300	2.0
967.7260	6.00	-1.66	78307.630	2.0	88638.300	3.0
967.7626	28.01	-3.73	105861.190	2.5	116191.470	2.5
967.7663	10.01	-1.23	280473.580	1.5	290803.820	.5
967.7860	18.00	-1.21	113716.610	3.0	124046.640	4.0
967.8263	24.00	-3.43	44875.190	2.0	55204.790	3.0
967.8403	27.00	-2.28	42434.230	2.5	52763.680	3.5
967.8429	16.00	-1.44	70165.237	2.0	80494.660	2.0
967.8429	16.00	-.54	70165.237	2.0	80494.660	3.0
967.8450	17.01	-1.01	151019.000	2.0	161348.400	1.0
967.8592	22.00	-4.00	31489.451	4.0	41818.700	4.0
967.8807	18.01	.50	194883.000	3.5	205212.020	4.5
967.8947	26.02	-3.32	219092.860	5.0	229421.730	4.0
967.8984	29.01	-4.07	128569.600	2.0	138898.430	1.0
967.9022	22.00	-2.93	18462.830	0.0	28791.620	1.0
967.9302	18.01	-3.26	198594.920	3.5	208923.410	2.5
967.9359	10.01	-2.30	302475.610	.5	312804.040	1.5
967.9668	27.00	-4.93	44568.470	2.5	54896.570	3.5
967.9696	28.01	-3.20	105499.050	3.5	115827.120	3.5
967.9743	24.00	-1.94	47054.910	4.0	57382.930	5.0
968.0118	24.00	-1.29	47055.310	5.0	57382.930	5.0
968.0221	25.00	-3.90	31076.420	1.5	41403.930	2.5
968.0278	26.02	-3.62	192006.940	2.0	202334.390	1.0
968.0404	26.00	-3.76	40207.120	3.0	50534.435	3.0
968.0418	24.00	-4.17	36577.730	4.0	46905.030	4.0
968.0549	18.01	-2.45	189654.780	2.5	199981.940	1.5
968.0561	16.00	-.57	67824.238	2.0	78151.386	1.0
968.0624	6.00	-2.69	78318.250	3.0	88645.330	2.0
968.0809	16.00	.10	67824.238	2.0	78151.121	2.0
968.0887	25.02	-3.59	208650.540	3.5	218977.340	3.5
968.1093	27.00	-4.71	43398.620	3.5	53725.200	4.5
968.1149	17.00	-2.15	91906.790	2.5	102233.310	2.5
968.1187	24.00	-4.82	36552.130	3.0	46878.610	3.0
968.1271	7.00	-2.15	94793.460	1.5	105119.850	1.5
968.1281	9.02	-3.81	431967.930	.5	442294.310	1.5
968.1309	6.00	-1.15	78307.630	2.0	88633.980	3.0
968.1609	28.01	-4.35	119889.470	5.5	130215.500	4.5
968.1850	22.00	-3.39	27498.975	3.0	37824.748	4.0
968.2219	18.01	.64	208921.200	1.5	219246.580	2.5
968.2228	6.00	-4.20	78249.940	4.0	88575.310	4.0
968.2368	26.02	-2.66	188013.400	4.0	198338.620	4.0
968.2790	18.00	-2.58	113716.610	3.0	124041.380	2.0
968.2891	22.00	-2.69	38699.767	2.0	49024.430	3.0
968.3043	13.01	-2.15	139588.700	3.0	149913.200	2.0
968.3043	13.01	-3.57	139588.700	3.0	149913.200	3.0
968.3043	13.01	-5.00	139588.700	3.0	149913.200	4.0
968.3043	13.01	-2.47	139588.700	4.0	149913.200	3.0
968.3043	13.01	-1.56	139588.700	4.0	149913.200	3.0
968.3043	13.01	-3.44	139588.700	4.0	149913.200	4.0
968.3043	13.01	-3.58	139588.700	4.0	149913.200	4.0
968.3043	13.01	-1.91	139588.700	5.0	149913.200	4.0
968.3231	24.00	-2.31	47048.480	3.0	57372.780	4.0
968.3401	14.00	-3.45	51612.012	0.0	61936.130	1.0
968.3419	29.01	-1.91	128558.900	3.0	138883.000	4.0
968.3431	26.00	-4.62	40894.972	2.0	51219.059	3.0
968.3475	7.01	-2.94	211056.260	3.0	221380.300	3.0
968.3550	18.01	-1.51	201345.220	1.5	211669.180	2.5
968.3831	10.01	-2.46	281171.380	2.5	291495.040	2.5
968.3832	28.00	-1.79	44336.100	4.0	54659.759	5.0
968.4141	22.00	-2.47	25635.740	1.0	35959.070	1.0
968.4160	18.01	.80	208923.410	2.5	219246.720	3.5
968.4282	26.02	-3.15	188013.400	4.0	198336.580	5.0
968.4291	18.01	-.50	208923.410	2.5	219246.580	2.5
968.4460	22.00	-1.51	34535.040	2.0	44858.030	1.0
968.4676	28.01	-4.75	119665.290	2.5	129988.050	2.5
968.4816	25.00	-.28	47299.290	.5	57621.900	1.5
968.5088	28.01	-2.80	122847.600	3.5	133169.920	3.5
968.5717	16.00	-1.44	70173.010	3.0	80494.660	3.0
968.5717	16.00	-.38	70173.010	3.0	80494.660	4.0
968.5717	16.00	-2.99	70173.010	3.0	80494.660	2.0
968.6186	29.01	-3.21	118532.150	2.0	128853.300	2.0
968.6207	8.00	-2.30	95467.740	2.0	105788.868	3.0
968.6451	8.00	-2.44	95467.740	2.0	105788.607	2.0
968.6605	8.00	-2.66	95467.740	2.0	105788.443	1.0
968.6684	28.00	-4.05	48671.900	3.0	58992.520	2.0
968.6890	15.00	-1.04	69980.100	3.5	80300.500	3.5
968.7209	7.01	-1.83	211060.240	4.0	221380.300	3.0
968.7219	6.00	-2.56	78318.250	3.0	88638.300	2.0
968.7219	6.00	-1.43	78318.250	3.0	88638.300	3.0
968.7927	26.00	-3.50	36686.159	4.0	47005.455	5.0
968.8608	29.01	-1.55	110365.980	2.0	120684.550	3.0
968.8669	20.00	-.24	38219.118	2.0	48537.623	1.0
968.8804	22.00	-1.64	6556.828	1.0	16875.190	2.0
968.8984	7.01	-3.39	196592.070	1.0	206910.240	0.0
968.9214	28.00	-2.27	43933.428	2.0	54251.353	3.0
968.9266	24.00	-1.15	47054.910	4.0	57372.780	4.0
968.9331	28.01	-3.03	119909.720	1.5	130227.520	2.5
968.9386	14.00	-1.06	49188.617	2.0	59506.359	2.0
968.9491	18.01	-2.95	201351.550	2.5	211669.180	2.5
968.9641	24.00	-1.58	47055.310	5.0	57372.780	4.0
969.0698	28.00	-4.54	40361.254	3.0	50677.599	3.0
969.0705	22.00	-2.28	17423.853	2.0	27740.190	2.0
969.0909	22.00	-4.07	35577.140	2.0	45893.260	3.0
969.0940	14.00	-4.40	50499.838	2.0	60815.925	2.0
969.1050	25.00	-4.91	41230.300	3.5	51546.270	4.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
969.1191	6.00	-.79	78318.250	3.0	88634.070	4.0
969.1275	6.00	-1.86	78318.250	3.0	88633.980	3.0
969.1407	17.00	-3.01	91906.790	2.5	102222.380	3.5
969.1435	22.01	-3.13	20891.880	3.5	31207.440	2.5
969.1557	23.00	-8.08	14514.750	1.5	24830.180	1.5
969.1567	23.00	-2.30	15688.800	2.5	26004.220	2.5
969.2159	25.00	-2.36	53109.210	2.5	63424.000	3.5
969.2281	14.01	-1.45	113962.340	.5	124277.000	.5
969.2366	23.01	-3.80	62133.390	3.0	72447.960	3.0
969.2386	26.00	-4.47	43922.652	3.0	54237.200	4.0
969.2704	10.01	-1.98	280268.960	2.5	290583.170	1.5
969.3117	24.00	-1.54	47047.470	2.0	57361.240	3.0
969.3258	22.00	-2.45	25699.950	2.0	36013.570	2.0
969.3587	29.01	-2.61	135902.430	0.0	146215.700	1.0
969.3776	18.01	-1.16	200151.640	1.5	210464.710	2.5
969.3906	7.01	.01	211030.070	3.0	221343.000	4.0
969.3963	10.01	-2.19	281720.280	1.5	292033.150	2.5
969.4010	7.00	-2.20	94830.860	2.5	105143.680	2.5
969.4067	24.00	-3.30	47048.480	3.0	57361.240	3.0
969.4076	27.00	-1.47	44201.920	2.5	54514.670	3.5
969.4085	7.01	-1.92	211030.070	3.0	221342.810	3.0
969.4273	28.01	-3.17	119913.330	4.5	130225.870	3.5
969.4711	9.00	-2.79	117872.916	1.5	128184.990	.5
969.4781	8.01	-2.12	265639.000	3.5	275951.000	2.5
969.4828	18.01	-.77	201351.550	2.5	211663.500	3.5
969.4884	17.00	-3.36	91906.790	2.5	102218.680	2.5
969.5010	20.00	-2.10	38259.124	3.0	48570.880	2.0
969.5010	20.00	-1.09	38259.124	3.0	48570.880	3.0
969.5166	17.00	-4.64	91906.790	2.5	102218.380	1.5
969.5176	24.00	-1.90	35862.820	4.0	46174.400	3.0
969.5956	23.01	-7.17	26839.820	3.0	37150.570	4.0
969.6163	22.00	-2.99	35757.510	4.0	46068.040	4.0
969.6417	27.00	-4.43	23152.570	3.5	33462.830	2.5
969.6483	27.00	-1.10	43847.980	3.5	54158.170	4.5
969.6775	7.01	-.14	211032.930	2.0	221342.810	3.0
969.6897	10.01	-2.40	292651.320	1.5	302961.070	1.5
969.7001	9.02	-2.81	432060.640	1.5	442370.280	.5
969.7411	16.00	-.55	67841.917	3.0	78151.121	2.0
969.7415	10.00	-3.68	159534.620	1.0	169843.820	2.0
969.7828	22.00	-3.54	18482.860	1.0	28791.620	1.0
969.7922	26.00	-3.35	48516.150	1.0	58824.810	2.0
969.8174	20.00	-3.46	36731.615	1.0	47040.007	2.0
969.8355	20.02	-1.12	360207.160	2.0	370515.360	3.0
969.8637	24.00	-3.73	44666.740	1.0	54974.640	2.0
969.8891	28.01	-2.78	105838.060	3.5	116145.690	3.5
969.9039	26.00	-4.76	44183.607	2.0	54491.080	3.0
969.9079	18.01	.81	196089.870	2.5	206397.300	3.5
969.9453	9.00	-.53	118405.267	.5	128712.300	1.5
969.9710	20.02	.95	363118.750	3.0	373425.510	4.0
969.9729	26.00	-4.98	40842.130	3.0	51148.870	3.0
969.9889	28.01	-4.13	105861.190	2.5	116167.760	1.5
969.9955	6.00	-4.81	78529.620	3.0	88836.120	3.0
970.0115	24.00	-1.43	47054.910	4.0	57361.240	3.0
970.0379	10.01	-1.38	291495.040	2.5	301801.090	3.5
970.0821	7.01	-1.04	210751.430	1.0	221057.010	2.0
970.0877	27.00	-3.91	43398.620	3.5	53704.140	2.5
970.1517	18.01	-.54	189654.780	2.5	199959.620	2.5
970.1526	10.00	-3.61	159534.620	1.0	169839.450	1.0
970.1574	29.01	-3.80	138177.220	2.0	148482.000	3.0
970.1640	29.01	-2.36	135910.990	2.0	146215.700	1.0
970.1733	20.00	-3.93	36731.615	1.0	47036.225	1.0
970.1828	18.01	.61	194996.490	1.5	205301.000	2.5
970.1933	20.00	-0.00	38259.124	3.0	48563.522	2.0
970.1959	18.01	-.14	194996.490	1.5	205300.860	1.5
970.2092	23.00	-9.30	14949.300	4.5	25253.530	5.5
970.2431	24.00	-4.29	35870.530	4.0	46174.400	3.0
970.2438	17.00	-.40	72827.038	.5	83130.900	1.5
970.2553	7.01	-3.55	211060.240	4.0	221363.980	5.0
970.2611	17.00	-.49	88080.042	2.5	98383.720	3.5
970.2660	2.00	-1.44	185565.000	0.0	195871.452	0.0
970.2770	27.00	-2.83	43398.620	3.5	53702.130	3.5
970.2835	22.00	-2.84	18525.070	2.0	28828.510	2.0
970.3080	24.00	-.99	47047.470	2.0	57350.650	2.0
970.3134	26.00	-1.50	40231.312	2.0	50534.435	3.0
970.3787	15.00	-1.18	65373.470	.5	75675.900	1.5
970.4032	24.00	-3.12	47048.480	3.0	57350.650	2.0
970.4032	28.01	-2.10	119913.330	4.5	130215.500	4.5
970.4079	24.01	-3.47	74423.840	3.5	84725.960	3.5
970.4512	24.00	-4.21	48558.570	2.0	58860.230	2.0
970.4569	8.01	-3.52	265578.000	3.5	275879.600	2.5
970.4569	8.01	-4.94	265578.000	3.5	275879.600	3.5
970.4743	26.00	-4.75	43499.485	4.0	53800.900	5.0
970.4795	24.00	-3.24	35807.900	2.0	46109.260	2.0
970.5200	25.00	-3.24	44978.980	1.5	55279.910	1.5
970.5247	24.00	-3.66	36577.730	4.0	46878.610	3.0
970.5643	28.00	-3.84	48817.600	1.0	59118.060	2.0
970.5683	22.00	-1.05	6661.003	3.0	16961.420	3.0
970.5765	20.02	-1.54	331048.860	0.0	341349.190	1.0
970.5953	18.01	-1.63	190106.230	1.5	200406.360	.5
970.6057	14.01	-1.15	113976.980	1.5	124277.000	.5
970.6453	15.01	-.50	129110.600	1.0	139410.200	2.0
970.6755	15.00	-1.93	66360.120	1.5	76659.400	2.5
970.7141	22.00	-2.25	25797.600	3.0	36096.470	3.0
970.7641	28.01	-3.30	119889.470	5.5	130187.810	6.5
970.7679	15.01	-.27	129626.000	1.0	139924.300	2.0
970.7801	28.01	-2.20	109846.000	3.5	120144.170	2.5
970.8121	25.00	-2.48	52128.650	2.5	62426.480	3.5
970.8150	8.01	-1.67	255465.200	3.5	265763.000	3.5
970.8167	28.00	-1.15	44475.158	2.0	54772.940	3.0
970.8272	23.00	-4.09	15724.220	3.5	26021.890	3.5
970.8291	24.00	-4.73	48824.500	4.0	59122.150	3.0
970.8461	29.01	-2.77	138261.830	3.0	148559.300	2.0
970.8592	18.01	-1.60	190732.970	.5	201030.300	.5
970.9413	28.01	-4.72	111783.790	3.5	122080.250	2.5
970.9866	22.00	-3.46	17369.590	1.0	27665.570	1.0
970.9894	27.00	-3.08	43398.620	3.5	53694.570	3.5
971.0035	8.01	-.43	255465.200	3.5	265761.000	4.5
971.0080	28.00	-.97	45281.152	3.0	55576.905	3.0
971.0139	18.01	-3.01	192712.000	1.5	203007.690	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
971.0262	28.01	-2.53	119913.330	4.5	130208.890	3.5
971.0290	24.00	-2.24	35813.730	3.0	46109.260	2.0
971.0290	29.01	-2.44	138220.070	4.0	148515.600	4.0
971.0441	28.01	-4.42	88171.880	4.5	98467.250	3.5
971.0450	22.00	-3.64	38544.380	3.0	48839.740	3.0
971.0498	24.00	-4.91	39158.630	4.0	49453.940	4.0
971.0658	28.01	-4.54	119889.470	5.5	130184.610	5.5
971.0686	18.01	-2.30	201781.790	2.5	212076.900	2.5
971.1130	24.00	-3.91	36552.130	3.0	46846.770	3.0
971.1569	26.00	-1.57	40404.492	1.0	50698.666	2.0
971.1743	18.01	-2.38	196103.310	4.5	206397.300	3.5
971.1753	18.01	-.12	196103.310	4.5	206397.290	4.5
971.1988	27.00	-4.04	44183.340	4.5	54477.070	3.5
971.2139	28.01	-2.05	119913.330	4.5	130206.900	4.5
971.2310	17.00	-1.07	88080.042	2.5	98373.430	2.5
971.2744	17.00	-1.54	88080.042	2.5	98372.970	1.5
971.2969	7.01	-1.56	211030.070	3.0	221322.760	4.0
971.3111	18.01	.13	186340.480	1.5	195633.020	2.5
971.3347	28.01	-1.63	119913.330	4.5	130205.620	5.5
971.3394	18.01	-4.53	200234.860	2.5	210527.100	2.5
971.3762	18.01	-2.91	147875.860	2.5	158167.710	1.5
971.3941	18.00	-2.91	114147.750	1.0	124439.410	0.0
971.5188	29.01	-2.29	136133.060	4.0	146423.400	4.0
971.5226	8.02	-2.11	370415.700	1.0	380706.000	2.0
971.5289	14.00	-3.14	50566.397	1.0	60856.630	1.0
971.5457	26.00	-3.85	42991.680	5.0	53281.735	5.0
971.5493	28.00	-2.69	43464.019	1.0	53754.036	2.0
971.5500	18.01	-.99	201781.790	2.5	212071.800	3.5
971.5509	22.00	-2.94	18482.860	1.0	28772.860	0.0
971.5764	23.00	-8.40	14548.830	2.5	24838.560	3.5
971.5943	29.01	-2.14	136270.260	4.0	146559.800	4.0
971.6340	26.02	-3.31	190918.170	3.0	201207.290	4.0
971.6462	7.00	-2.94	94830.860	2.5	105119.850	1.5
971.6528	25.00	-1.95	58427.300	5.5	68716.220	4.5
971.6642	29.01	-2.64	128853.300	2.0	139142.100	2.0
971.6972	22.00	-2.40	18593.990	3.0	28882.440	3.0
971.6982	27.00	-4.38	44394.470	3.5	54682.910	4.5
971.7037	22.00	-3.28	31628.668	5.0	41917.050	4.0
971.7190	24.00	-2.94	36558.550	2.0	46846.770	3.0
971.7463	28.01	-3.59	105668.780	2.5	115956.710	2.5
971.7860	28.01	-3.13	119909.720	1.5	130197.230	1.5
971.8068	23.00	-3.08	26738.310	4.5	37025.600	3.5
971.8144	25.01	-4.09	72648.800	4.0	82936.010	3.0
971.8588	7.01	-3.08	211056.260	3.0	221343.000	4.0
971.8654	28.01	-2.28	99559.330	2.5	109846.000	3.5
971.8767	7.01	-.31	211056.260	3.0	221342.810	3.0
971.8966	29.01	-2.21	136270.260	4.0	146556.600	3.0
971.9007	22.00	-1.45	12118.394	4.0	22404.690	3.0
971.9287	8.01	-2.47	265665.000	2.5	275951.000	1.5
971.9287	8.01	-3.75	265665.000	2.5	275951.000	2.5
971.9636	25.00	-1.15	52015.000	3.5	62300.630	4.5
971.9769	27.00	-1.96	46260.020	1.5	56545.510	2.5
971.9995	22.00	-4.31	35527.760	1.0	45813.010	2.0
972.0137	10.01	-.01	292546.700	.5	302831.800	.5
972.0166	28.01	-4.20	121385.800	1.5	131670.870	2.5
972.0406	26.00	-3.49	43108.899	4.0	53393.715	4.0
972.0726	9.00	-1.37	118427.823	1.5	128712.300	1.5
972.2009	20.02	-.48	363118.750	3.0	373401.870	3.0
972.2349	7.01	-.20	211060.240	4.0	221343.000	4.0
972.2349	10.01	-4.98	328318.120	3.5	338600.880	4.5
972.2378	27.00	-4.64	36092.440	2.5	46375.170	1.5
972.2463	27.00	-3.23	23184.230	2.5	33466.870	3.5
972.2529	7.01	-1.75	211060.240	4.0	221342.810	3.0
972.2623	27.00	-1.75	42434.230	2.5	52716.700	3.5
972.2889	18.01	-4.63	173393.380	2.5	183675.570	3.5
972.2973	22.00	-2.38	25926.820	4.0	36208.920	4.0
972.3002	14.02	-3.00	230267.700	2.0	240549.770	2.0
972.3047	26.00	-4.83	40421.890	4.0	50703.912	5.0
972.3229	27.00	-3.33	41982.660	1.5	52264.490	1.5
972.3257	13.01	-.49	139286.800	2.0	149568.600	3.0
972.3351	13.01	-1.01	138518.700	2.0	148800.400	3.0
972.3673	6.00	-1.11	78293.490	1.0	88574.850	2.0
972.3683	23.00	-7.09	14548.830	2.5	24830.180	1.5
972.3871	14.02	-2.59	230268.620	3.0	240549.770	2.0
972.4458	28.01	-3.69	123434.600	4.5	133715.130	4.5
972.4670	20.00	-4.12	36554.749	1.0	46835.055	0.0
972.4758	22.00	-4.26	15108.121	3.0	25388.334	4.0
972.4950	10.00	-3.57	159534.620	1.0	169814.630	2.0
972.4960	23.00	-2.84	15724.220	3.5	26004.220	2.5
972.5281	25.00	-1.35	52015.000	3.5	62294.660	3.5
972.6284	27.00	-2.20	23184.230	2.5	33462.830	2.5
972.6445	27.00	-2.23	43425.710	2.5	53704.140	2.5
972.6587	18.01	-1.41	196119.020	3.5	206397.300	3.5
972.6597	18.01	.67	196119.020	3.5	206397.290	4.5
972.7325	13.01	-1.66	139588.700	4.0	149866.200	3.0
972.7325	13.01	-2.43	139588.700	4.0	149866.200	3.0
972.7325	13.01	-3.45	139588.700	3.0	149866.200	3.0
972.7443	26.00	-4.98	47420.215	5.0	57697.590	4.0
972.7900	26.00	-2.50	42784.387	6.0	53061.280	5.0
972.8177	28.01	-4.97	109038.840	1.5	119315.440	2.5
972.8328	22.00	-1.24	6598.749	2.0	16875.190	2.0
972.8347	27.00	-4.59	43425.710	2.5	53702.130	3.5
972.8486	26.00	-8.77	12968.552	2.0	23244.826	1.0
972.8524	26.00	-3.25	41018.029	2.0	51294.262	3.0
972.8754	10.01	-.16	282375.330	1.5	292651.320	1.5
972.9020	26.02	-3.81	192006.940	2.0	202282.650	2.0
972.9428	22.00	-3.96	35685.160	6.0	45960.439	6.0
972.9550	27.00	-2.25	44201.920	2.5	54477.070	3.5
972.9569	28.01	-3.07	100845.410	.5	111120.540	1.5
972.9870	22.00	-3.86	31628.668	5.0	41903.480	5.0
973.0004	28.01	-1.66	119909.720	1.5	130184.390	2.5
973.0061	23.00	-7.15	14514.750	1.5	24789.360	.5
973.0071	10.01	-.17	292033.150	2.5	302307.750	2.5
973.0071	18.01	-2.41	172816.210	.5	183090.810	1.5
973.0326	24.00	-1.09	28637.000	3.0	38911.330	3.0
973.0525	22.00	-2.53	25926.820	4.0	36200.940	5.0
973.1082	22.00	-2.58	38451.298	2.0	48724.830	1.0
973.1510	11.00	-2.10	30266.990	.5	40540.070	1.5
973.1546	22.00	-3.19	38451.298	2.0	48724.340	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
973.2263	26.00	-4.99	50534.435	3.0	60806.720	3.0
973.2886	22.00	-3.83	38764.832	3.0	49036.460	4.0
973.3216	28.01	-2.01	119913.330	4.5	130184.610	5.5
973.4031	28.01	-2.66	116468.400	1.5	126738.820	1.5
973.4066	22.00	-4.40	31914.277	5.0	42184.660	4.0
973.4164	10.01	-1.30	292546.700	.5	302816.980	1.5
973.4366	9.00	-.12	118427.823	1.5	128697.890	2.5
973.4400	28.01	-4.08	121385.800	1.5	131655.830	.5
973.4524	24.00	-1.61	20517.400	2.0	30787.300	1.0
973.4542	18.01	-.53	195031.120	2.5	205301.000	2.5
973.4566	28.00	-4.59	40484.282	2.0	50754.137	2.0
973.4580	29.01	-3.57	136133.060	4.0	146402.900	5.0
973.4675	18.01	-1.09	195031.120	2.5	205300.860	1.5
973.4694	18.00	-3.59	114805.180	2.0	125074.900	2.0
973.4741	15.00	-.68	56090.450	1.5	66360.120	1.5
973.4819	14.00	-2.24	51612.012	0.0	61881.600	1.0
973.4870	26.00	-2.92	43499.485	4.0	53769.020	4.0
973.5197	24.00	-2.41	35807.900	2.0	46077.090	1.0
973.5377	17.01	-2.07	121499.000	2.0	131768.000	2.0
973.5510	27.00	-2.19	43425.710	2.5	53694.570	3.5
973.6009	26.00	-3.80	44415.057	4.0	54683.390	4.0
973.6135	26.00	-2.51	40207.120	3.0	50475.320	4.0
973.6183	22.00	-4.30	25797.600	3.0	36065.750	3.0
973.6307	22.00	-3.56	31489.451	4.0	41757.470	3.0
973.6401	28.01	-1.90	106007.890	2.5	116275.810	3.5
973.6489	22.00	-4.05	35454.051	4.0	45721.878	4.0
973.6628	6.00	-1.46	78307.630	2.0	88575.310	3.0
973.6738	9.00	-.59	117872.916	1.5	128140.480	2.5
973.6809	11.00	-1.84	30272.580	1.5	40540.070	2.5
973.6809	11.00	-2.80	30272.580	1.5	40540.070	1.5
973.6859	26.00	-4.90	40594.413	4.0	50861.850	3.0
973.7046	6.00	-1.55	78307.630	2.0	88574.870	3.0
973.7065	6.00	-2.29	78307.630	2.0	88574.850	2.0
973.7700	22.00	-2.70	18525.070	2.0	28791.620	1.0
973.7748	7.01	.26	211056.260	3.0	221322.760	4.0
973.7880	25.00	-3.21	45013.550	2.5	55279.910	1.5
973.8032	29.01	-2.50	128853.300	2.0	139119.500	3.0
973.8449	23.00	-2.36	15664.750	1.5	25930.510	1.5
973.8484	26.00	-4.14	44183.607	2.0	54449.330	1.0
973.8487	25.00	-2.21	58427.300	5.5	68693.020	5.5
973.8534	9.00	-4.82	138703.520	2.5	148969.190	3.5
973.8563	26.00	-.32	40257.300	5.0	50522.940	6.0
973.9360	18.01	-4.42	189414.960	3.5	199679.760	2.5
973.9474	6.00	-3.51	78529.620	3.0	88794.300	2.0
973.9749	18.01	-4.24	179931.770	1.5	190196.160	.5
973.9825	28.01	-1.38	119909.720	1.5	130174.030	1.5
974.0119	13.01	-2.07	138536.400	3.0	148800.400	3.0
974.0119	13.01	-1.11	138536.400	3.0	148800.400	4.0
974.0119	13.01	-1.30	138536.400	3.0	148800.400	4.0
974.0243	26.01	-4.97	74606.970	2.5	84870.840	2.5
974.0385	7.00	-4.47	83317.800	1.5	93581.520	.5
974.0594	28.01	-4.97	111783.790	3.5	122047.290	3.5
974.0784	8.01	-2.34	265578.000	3.5	275841.300	3.5
974.0784	8.01	-3.86	265578.000	3.5	275841.300	4.5
974.0926	29.01	-2.10	135952.550	2.0	146215.700	1.0
974.1097	28.01	-3.27	93390.060	2.5	103653.030	3.5
974.1429	7.01	.38	211060.240	4.0	221322.860	5.0
974.1524	7.01	-1.28	211060.240	4.0	221322.760	4.0
974.1571	29.01	-3.96	136160.930	5.0	146423.400	4.0
974.1780	24.00	-4.35	47088.400	1.0	57350.650	2.0
974.2084	29.01	-4.67	138220.070	4.0	148482.000	3.0
974.2122	7.00	-4.47	94881.790	3.5	105143.680	2.5
974.2673	22.00	-4.61	35503.400	0.0	45764.710	1.0
974.3119	22.00	-2.86	38654.230	1.0	48915.070	2.0
974.3147	14.01	-.29	112394.820	1.5	122655.630	2.5
974.3299	14.01	-1.43	112394.980	2.5	122655.630	2.5
974.3413	14.01	-.13	112394.980	2.5	122655.510	3.5
974.3423	24.00	-3.96	23163.270	0.0	33423.790	1.0
974.3461	18.01	.69	196076.390	1.5	206336.870	2.5
974.3470	17.00	-1.53	85735.091	1.5	95995.561	.5
974.3573	22.00	-1.34	6556.828	1.0	16817.190	1.0
974.3660	29.01	-3.38	128558.900	3.0	138819.170	3.0
974.3850	25.02	-3.67	208935.880	4.5	219195.950	4.5
974.3917	8.01	-2.72	265691.000	3.5	275951.000	2.5
974.4298	22.00	-1.77	38764.832	3.0	49024.430	3.0
974.4427	17.00	-1.98	74225.846	1.5	84485.309	1.5
974.4439	26.01	-4.80	50142.930	2.5	60402.380	2.5
974.4752	22.00	-3.43	25699.950	2.0	35959.070	1.0
974.5089	26.00	-2.96	43022.969	4.0	53281.735	5.0
974.5323	15.00	-2.13	65787.380	3.5	76045.900	2.5
974.5626	15.01	-.81	129666.100	2.0	139924.300	2.0
974.5959	28.00	-4.77	47328.850	2.0	57586.700	2.0
974.6006	8.02	-2.34	370524.200	2.0	380782.000	3.0
974.6092	27.00	-2.25	22475.360	4.5	32733.070	3.5
974.6469	26.00	-2.74	42911.897	5.0	53169.210	6.0
974.6513	28.00	-1.16	44475.158	2.0	54732.425	2.0
974.6538	29.01	-4.02	135958.460	1.0	146215.700	1.0
974.6565	28.00	-3.22	48735.308	2.0	58992.520	2.0
974.6709	6.00	-3.28	78318.250	3.0	88575.310	3.0
974.6709	6.00	-1.75	78318.250	3.0	88575.310	4.0
974.6821	20.00	-1.88	37298.287	2.0	47555.230	3.0
974.6862	28.01	-4.58	117074.700	3.5	127331.600	2.5
974.6890	22.00	-2.06	18695.230	4.0	28952.100	4.0
974.7128	6.00	-3.50	78318.250	3.0	88574.870	3.0
974.7337	26.00	-2.36	36940.600	2.0	47197.000	2.0
974.7486	26.00	-3.77	43137.472	3.0	53393.715	4.0
974.7833	26.00	-4.47	23783.617	5.0	34039.495	4.0
974.7840	23.00	-6.23	14514.750	1.5	24770.620	.5
974.7907	17.01	-1.52	121499.000	2.0	131754.800	1.0
974.8031	22.01	-2.53	20951.770	2.5	31207.440	2.5
974.8288	22.00	-4.22	37852.021	1.0	48107.420	2.0
974.8306	10.01	-.98	291801.880	1.5	302057.260	.5
974.8601	27.00	-3.90	23207.760	1.5	33462.830	2.5
974.8744	18.01	-1.85	201351.550	2.5	211606.470	3.5
974.8905	28.01	-.59	127867.130	4.5	138121.880	4.5
974.9029	18.00	-4.64	114805.180	2.0	125059.800	2.0
974.9437	14.00	-3.39	50602.470	0.0	60856.630	1.0
974.9575	26.00	-4.48	50423.185	4.0	60677.230	5.0
974.9694	26.00	-4.35	40894.972	2.0	51148.892	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
974.9715	26.00	-4.84	40894.972	2.0	51148.870	3.0
974.9837	29.01	-4.02	138261.830	3.0	148515.600	4.0
974.9932	25.00	-2.73	47452.160	.5	57705.830	.5
975.0150	18.01	-1.09	194996.490	1.5	205249.930	2.5
975.0655	18.00	-3.75	114821.990	3.0	125074.900	2.0
975.0683	15.00	-.19	56090.450	1.5	66343.330	.5
975.1301	15.00	-2.59	68088.270	1.5	78340.500	2.5
975.1536	20.00	-2.05	37298.287	2.0	47550.271	3.0
975.1590	20.00	-2.98	37298.287	2.0	47550.214	2.0
975.2310	23.00	-4.96	15770.720	4.5	26021.890	3.5
975.2624	7.01	-2.29	211103.630	3.0	221354.470	2.0
975.2890	24.00	-2.82	23512.000	1.0	33762.560	0.0
975.3035	26.00	-.91	38678.015	2.0	48928.423	2.0
975.3318	22.00	-4.63	35757.510	4.0	46007.620	4.0
975.3610	9.00	-1.20	117872.916	1.5	128122.719	1.5
975.3832	29.01	-1.88	128569.600	2.0	138819.170	3.0
975.3872	14.00	-4.17	50566.397	1.0	60815.925	2.0
975.4946	15.00	-1.87	65585.000	2.5	75833.400	2.5
975.5267	26.00	-2.99	43499.485	4.0	53747.547	3.0
975.5460	10.01	-2.88	281720.280	1.5	291968.140	.5
975.6155	18.01	-.30	196089.870	2.5	206337.000	3.5
975.6202	24.00	-1.37	47125.700	3.0	57372.780	4.0
975.6279	18.01	-.46	196089.870	2.5	206336.870	2.5
975.6316	27.00	-3.05	44658.030	1.5	54904.990	2.5
975.6461	10.00	-4.60	163012.621	1.0	173259.430	1.0
975.6773	18.01	-3.82	194996.490	1.5	205242.970	.5
975.7230	8.01	-2.56	265705.000	2.5	275951.000	1.5
975.7230	8.01	-3.81	265705.000	2.5	275951.000	2.5
975.7850	24.01	-2.80	54678.950	4.5	64924.300	3.5
975.7915	14.00	-1.74	49028.294	0.0	59273.575	1.0
975.8593	18.01	-1.24	196103.310	4.5	206347.880	4.5
975.8640	18.01	1.07	196103.310	4.5	206347.830	5.5
975.8688	24.00	-2.96	35813.730	3.0	46058.200	4.0
975.8905	26.00	-3.56	44022.518	4.0	54266.760	5.0
975.9507	27.00	-1.64	41918.410	3.5	52162.020	3.5
975.9866	26.00	-2.63	42911.897	5.0	53155.130	4.0
976.0175	18.01	-3.86	200234.860	2.5	210477.770	3.5
976.0304	26.00	-3.98	43325.946	3.0	53568.720	2.0
976.0432	10.00	-4.15	163012.621	1.0	173255.260	0.0
976.1070	29.01	-2.23	136160.930	5.0	146402.900	5.0
976.1125	22.00	-2.46	27418.015	2.0	37659.927	3.0
976.1138	20.00	-2.50	38192.392	1.0	48434.290	1.0
976.1138	20.00	-3.10	38192.392	1.0	48434.290	2.0
976.1311	22.00	-3.77	17423.853	2.0	27665.570	1.0
976.1318	23.00	-2.98	15688.800	2.5	25930.510	1.5
976.1318	24.01	-4.16	74484.250	2.5	84725.960	3.5
976.1330	9.00	-3.39	116040.883	1.5	126282.580	1.5
976.1801	18.00	-3.56	113020.390	3.0	123261.593	2.0
976.1804	13.01	-3.86	138559.200	4.0	148800.400	3.0
976.1804	13.01	-2.30	138559.200	4.0	148800.400	4.0
976.1804	13.01	-2.44	138559.200	4.0	148800.400	4.0
976.1804	13.01	-.77	138559.200	4.0	148800.400	5.0
976.1842	18.01	-.34	186074.350	2.5	196315.510	2.5
976.2099	18.01	-1.44	201345.220	1.5	211586.110	2.5
976.2385	28.01	-3.89	122790.410	4.5	133031.000	4.5
976.2566	29.01	-2.77	138402.200	3.0	148642.600	2.0
976.2652	22.00	-4.43	35652.950	3.0	45893.260	3.0
976.2852	28.01	-4.53	105499.050	3.5	115739.150	4.5
976.2891	28.01	-4.91	89100.490	3.5	99340.550	3.5
976.2945	26.00	-2.83	43499.485	4.0	53739.488	5.0
976.3062	28.00	-1.61	43464.019	1.0	53703.899	1.0
976.3139	8.01	-3.87	255465.200	3.5	265705.000	2.5
976.3363	26.00	-.85	41130.620	1.0	51370.184	2.0
976.3663	10.01	.25	292651.320	1.5	302890.570	2.5
976.3739	25.00	-4.31	47466.660	1.5	57705.830	.5
976.3815	26.01	-4.64	54870.620	2.5	65109.710	3.5
976.3833	26.00	-4.90	40594.413	4.0	50833.485	5.0
976.4349	26.00	-2.95	43922.652	3.0	54161.182	3.0
976.4636	28.01	-3.87	105588.890	4.5	115827.120	3.5
976.4712	28.01	-1.42	119909.720	1.5	130147.870	.5
976.4807	27.00	-1.36	41918.410	3.5	52156.460	4.5
976.5761	24.00	-2.54	48488.230	0.0	58725.280	1.0
976.5812	14.00	-2.65	49399.670	1.0	59636.667	1.0
976.5857	22.00	-4.61	35527.760	1.0	45764.710	1.0
976.6181	26.00	-4.27	36940.600	2.0	47177.210	1.0
976.6191	8.01	-3.14	255622.400	.5	265859.000	.5
976.6887	22.00	-4.45	35577.140	2.0	45813.010	2.0
976.6963	22.00	-4.98	36414.470	3.0	46650.260	3.0
976.7202	24.00	-.93	47125.700	3.0	57361.240	3.0
976.7707	10.01	-4.18	303509.520	2.5	313744.530	3.5
976.7717	8.01	-2.81	265762.000	1.5	275997.000	.5
976.7899	24.00	-4.94	33816.060	4.0	44050.870	4.0
976.8051	28.01	-4.37	121385.800	1.5	131620.450	1.5
976.8137	18.01	-1.56	201351.550	2.5	211586.110	2.5
976.8175	22.00	-2.64	18593.990	3.0	28828.510	2.0
976.8270	18.00	-3.58	114805.180	2.0	125039.600	1.0
976.8338	26.00	-4.31	48475.740	3.0	58710.090	3.0
976.8346	26.00	-2.31	37521.144	2.0	47755.485	3.0
976.8351	14.00	-2.33	39955.053	2.0	50189.389	2.0
976.8443	25.02	-4.69	208743.100	2.5	218977.340	3.5
976.8767	27.00	-4.80	43555.220	3.5	53789.120	3.5
976.8967	18.01	-1.72	196103.310	4.5	206337.000	3.5
976.8986	9.02	-2.63	432060.640	1.5	442294.310	1.5
976.9092	27.00	-3.02	43555.220	3.5	53788.780	4.5
976.9569	24.00	-2.73	35501.260	3.0	45734.320	2.0
976.9703	25.00	-4.47	34463.370	1.5	44696.290	2.5
976.9965	28.00	-3.91	40484.282	2.0	50716.927	1.0
977.0094	10.01	-.10	303237.910	1.5	313470.420	2.5
977.0251	22.00	-1.60	6842.964	5.0	17075.310	4.0
977.0495	22.00	-4.39	37976.780	2.0	48208.870	3.0
977.1014	22.00	-2.46	15156.787	4.0	25388.334	4.0
977.1283	14.00	-2.53	53387.334	1.0	63618.600	0.0
977.1316	18.01	-.11	208921.200	1.5	219152.430	1.5
977.1727	15.00	-3.53	70391.600	2.5	80622.400	2.5
977.1823	25.00	-2.18	58485.520	4.5	68716.220	4.5
977.1832	18.01	.01	186074.350	2.5	196305.040	3.5
977.1966	17.00	-3.15	88188.550	1.5	98419.100	2.5
977.3093	6.00	-3.95	78731.270	1.0	88960.640	0.0
977.3303	24.00	-1.87	28682.180	2.0	38911.330	3.0
977.3408	26.02	-2.27	188109.580	3.0	198338.620	4.0
977.3428	18.01	-1.06	208923.410	2.5	219152.430	1.5
977.3447	29.01	-1.76	138402.200	3.0	148631.200	3.0
977.3581	18.01	.69	196119.020	3.5	206347.880	4.5
977.3800	18.00	-2.95	114147.750	1.0	124376.380	1.0
977.4584	17.00	-.95	90948.530	1.5	101176.340	2.5
977.4661	18.00	-2.18	114641.040	2.0	124868.770	3.0
977.4899	26.02	-4.00	188109.580	3.0	198337.060	3.0
977.5310	18.01	-1.95	201345.220	1.5	211572.270	1.5
977.5654	28.01	-4.55	129782.070	3.5	140008.760	3.5
977.5836	27.00	-4.11	41041.430	3.5	51267.930	4.5
977.6371	29.01	-1.90	136270.260	4.0	146496.200	3.0
977.6428	15.00	-1.49	65450.020	1.5	75675.900	1.5
977.6505	8.01	-1.60	255465.200	3.5	265691.000	3.5
977.6562	25.02	-4.04	208751.600	4.5	218977.340	3.5
977.6888	28.01	-2.78	122086.580	3.5	132311.980	4.5
977.6897	7.00	-1.26	94770.850	.5	104996.240	1.5
977.7289	18.01	-1.57	194996.490	1.5	205221.470	1.5
977.7318	24.00	-1.50	47125.700	3.0	57350.650	2.0
977.7538	27.00	-4.75	44201.920	2.5	54426.640	1.5
977.7563	28.00	-2.66	44475.158	2.0	54699.852	3.0
977.7595	28.01	-3.33	120002.860	3.5	130227.520	2.5
977.7710	18.01	-.65	189654.780	2.5	199879.320	3.5
977.8083	18.00	-2.39	114641.040	2.0	124865.190	2.0
977.8131	28.01	-3.44	129782.070	3.5	140006.170	4.5
977.8227	18.00	-1.42	114641.040	2.0	124865.040	3.0
977.8289	26.00	-9.47	12968.552	2.0	23192.486	2.0
977.8542	28.01	-4.18	122790.410	4.5	133014.080	5.5
977.8657	25.02	-2.13	181949.340	2.5	192172.890	2.5
977.9173	28.01	-2.86	120002.860	3.5	130225.870	3.5
977.9424	22.00	-4.74	31829.972	4.0	42052.720	3.0
978.0206	28.01	-.98	126738.820	1.5	136960.750	2.5
978.0398	22.01	-4.52	20891.880	3.5	31113.610	3.5
978.0666	24.01	-4.12	74506.510	4.5	84725.960	3.5
978.0752	26.00	-3.16	36975.640	3.0	47197.000	2.0
978.1021	10.00	-4.39	163038.351	2.0	173259.430	1.0
978.1173	23.00	-7.99	14910.040	3.5	25130.960	2.5
978.1364	24.01	-4.47	74273.480	1.5	84494.200	2.5
978.1365	18.01	-2.83	201351.550	2.5	211572.270	1.5
978.1891	29.01	-2.53	138261.830	3.0	148482.000	3.0
978.1958	13.01	-1.40	124792.000	2.0	135012.100	1.0
978.2115	26.00	-4.79	43325.946	3.0	53545.882	3.0
978.2159	24.00	-4.92	31355.210	2.0	41575.100	3.0
978.2561	28.01	-3.95	68735.980	2.5	78955.450	1.5
978.3097	18.01	-3.97	195031.120	2.5	205250.030	3.5
978.3192	18.01	.05	195031.120	2.5	205249.930	2.5
978.3333	22.00	-1.45	6742.757	4.0	16961.420	3.0
978.3546	22.00	-1.65	6598.749	2.0	16817.190	1.0
978.3575	55.00	-2.13	18535.519	0.0	28756.732	0.0
978.3690	9.02	-3.14	432060.640	1.5	442278.930	2.5
978.3949	26.00	-4.73	40257.300	5.0	50475.320	4.0
978.3987	18.01	-.36	196119.020	3.5	206337.000	3.5
978.4112	18.01	-2.12	196119.020	3.5	206336.870	2.5
978.4236	24.00	-3.11	48507.560	1.0	58725.280	1.0
978.4500	18.00	-1.15	95399.870	1.0	105617.315	2.0
978.5395	27.00	-.89	43295.320	4.5	53511.830	5.5
978.5520	18.00	-2.96	114641.040	2.0	124857.420	2.0
978.5664	18.00	-3.32	114641.040	2.0	124857.270	1.0
978.5836	10.01	-4.67	303528.530	3.5	313744.580	4.5
978.5912	22.00	-3.29	25797.600	3.0	36013.570	2.0
978.5998	27.00	-3.22	46329.630	2.5	56545.510	2.5
978.6210	26.00	-4.62	44664.061	2.0	54879.720	2.0
978.6551	22.00	-2.27	38699.767	2.0	48915.070	2.0
978.6621	11.00	-2.94	30266.990	.5	40482.220	.5
978.6669	26.00	-1.78	37162.729	3.0	47377.909	4.0
978.6676	20.00	-2.95	38219.118	2.0	48434.290	1.0
978.6676	20.00	-2.49	38219.118	2.0	48434.290	2.0
978.6676	20.00	-2.89	38219.118	2.0	48434.290	3.0
978.6784	7.00	-1.34	94793.460	1.5	105008.520	2.5
978.6925	9.00	-1.83	117872.916	1.5	128087.829	2.5
978.7196	10.01	.24	292033.150	2.5	302247.780	3.5
978.7388	26.01	-4.15	50187.950	3.5	60402.380	2.5
978.7416	17.01	-3.41	151134.000	1.0	161348.400	1.0
978.7620	22.00	-1.47	6661.003	3.0	16875.190	2.0
978.8289	7.00	-.94	94770.850	.5	104984.340	.5
978.8528	7.01	-2.65	211032.930	2.0	221246.170	1.0
978.8566	26.00	-4.62	44166.240	3.0	54379.440	3.0
978.8662	23.00	-9.11	14514.750	1.5	24727.850	2.5
978.8783	14.00	-1.68	49060.601	1.0	59273.575	1.0
978.9103	28.01	-2.21	120002.860	3.5	130215.500	4.5
978.9122	28.01	-3.85	106620.530	3.5	116833.150	4.5
978.9650	24.00	-3.98	39158.630	4.0	49370.700	3.0
979.0128	15.00	-.56	57876.700	.5	68088.270	1.5
979.0896	24.00	-4.22	31364.330	3.0	41575.100	3.0
979.1347	8.01	-3.15	265856.000	2.5	276066.300	1.5
979.1347	8.01	-2.10	265856.000	2.5	276066.300	2.5
979.1442	18.01	-2.65	190196.160	.5	200406.360	.5
979.1557	22.00	-1.66	27614.667	4.0	37824.748	4.0
979.1711	10.01	-1.70	306687.290	2.5	316897.210	3.5
979.1713	26.00	-4.48	24118.815	4.0	34328.733	3.0
979.1980	11.00	-2.64	30272.580	1.5	40482.220	.5
979.2076	10.01	-.33	306687.670	3.5	316897.210	3.5
979.2121	22.00	-3.67	31914.277	5.0	42123.770	6.0
979.2134	26.00	-3.73	44166.240	3.0	54375.719	2.0
979.2574	29.01	-.82	135863.930	1.0	146072.950	2.0
979.2613	18.00	-3.91	114147.750	1.0	124356.730	2.0
979.3144	26.00	-4.76	24338.766	3.0	34547.192	2.0
979.3246	18.01	.87	198594.920	3.5	208803.240	4.5
979.3706	28.00	-2.40	44565.100	3.0	54772.940	3.0
979.3792	26.00	-4.84	24574.655	4.0	34782.406	5.0
979.4032	25.00	-3.47	58485.520	4.5	68693.020	5.5
979.4042	29.01	-2.04	134675.600	2.0	144883.090	2.0
979.4051	7.01	.45	211103.630	3.0	221311.110	4.0
979.4330	25.00	-4.32	44978.980	1.5	55186.170	2.5
979.4512	10.03	-.47	633465.000	.5	643672.000	1.5
979.4676	22.00	-3.89	37852.021	1.0	48058.850	1.0
979.4781	14.00	-3.02	50499.838	2.0	60706.558	1.0
979.4845	9.00	-.59	118405.267	.5	128611.920	1.5
979.4896	17.02	-2.75	198835.500	.5	209042.100	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
979.5366	27.00	-3.64	43952.060	5.5	54158.170	4.5
979.5443	28.01	-2.29	120002.860	3.5	130208.890	3.5
979.5814	26.00	-3.44	44285.436	2.0	54491.080	3.0
979.6057	22.00	-3.54	25926.820	4.0	36132.210	4.0
979.6163	22.00	-2.38	38654.230	1.0	48859.510	1.0
979.6230	26.01	-3.42	54904.500	3.5	65109.710	3.5
979.6728	14.00	-4.01	50499.838	2.0	60704.530	3.0
979.6835	15.00	.22	56339.540	2.5	66544.120	2.5
979.7353	28.01	-2.30	120002.860	3.5	130206.900	4.5
979.8544	27.00	-1.86	41918.410	3.5	52121.210	4.5
979.8563	7.00	-.64	94793.460	1.5	104996.240	1.5
979.8781	26.00	-3.74	44183.607	2.0	54386.160	1.0
979.8832	15.00	-4.93	70391.600	2.5	80594.100	1.5
979.9447	26.02	-4.25	188131.700	1.0	198333.560	2.0
979.9793	28.01	-2.90	105668.780	2.5	115870.280	2.5
979.9831	23.00	-9.50	14910.040	3.5	25111.500	4.5
979.9908	14.02	.14	204330.790	2.0	214532.170	1.0
979.9995	23.01	-5.55	26839.820	3.0	37041.110	2.0
980.0244	26.00	-.71	41018.029	2.0	51219.059	3.0
980.0590	28.00	-3.03	48671.900	3.0	58872.570	4.0
980.0663	20.00	-2.37	36547.688	0.0	46748.283	1.0
980.0907	18.00	-1.94	113020.390	3.0	123220.730	2.0
980.1099	25.00	-2.40	52883.100	.5	63083.240	1.5
980.1248	22.00	-2.96	17540.205	3.0	27740.190	2.0
980.1426	8.01	-3.99	255465.200	3.5	265665.000	2.5
980.1839	25.00	-1.53	52883.870	1.5	63083.240	1.5
980.1839	25.00	-4.63	52883.870	2.5	63083.240	1.5
980.2022	18.01	-.78	198604.060	4.5	208803.240	4.5
980.2022	18.01	.96	198604.060	4.5	208803.240	5.5
980.2243	28.01	-2.23	109846.000	3.5	120044.950	4.5
980.2291	17.02	-2.29	198983.900	1.5	209182.800	1.5
980.2541	24.00	-3.78	48661.590	3.0	58860.230	2.0
980.2906	20.02	-1.12	331403.200	1.0	341601.460	2.0
980.3695	18.01	.99	196621.880	3.5	206819.320	4.5
980.3704	18.01	-.55	196621.880	3.5	206819.310	3.5
980.4771	25.00	-3.49	58519.900	3.5	68716.220	4.5
980.4843	28.00	-2.20	44565.100	3.0	54761.346	4.0
980.5240	26.00	-4.69	44183.607	2.0	54379.440	3.0
980.5521	28.01	-4.90	121925.160	.5	132120.700	.5
980.5600	26.00	-3.06	36940.600	2.0	47136.058	2.0
980.5675	24.00	-1.80	35862.820	4.0	46058.200	4.0
980.5714	28.01	-1.42	108368.050	2.5	118563.390	3.5
980.6118	10.01	-.47	306687.290	2.5	316882.210	2.5
980.6483	10.01	-1.78	306687.670	3.5	316882.210	2.5
980.6599	26.02	-3.66	188142.640	2.0	198337.060	3.0
980.7058	17.00	.05	84120.263	2.5	94314.206	1.5
980.7320	28.01	-3.91	122837.330	4.5	133031.000	4.5
980.7416	26.02	-3.57	192006.940	2.0	202200.510	3.0
980.7451	20.00	-1.90	36554.749	1.0	46748.283	1.0
980.7541	28.00	-4.66	49032.589	2.0	59226.030	1.0
980.7660	28.00	-4.83	40484.282	2.0	50677.599	3.0
980.7907	24.00	-1.36	47189.870	4.0	57382.930	5.0
980.8174	22.00	-4.84	31914.277	5.0	42107.060	4.0
980.8340	7.01	-2.32	211103.630	3.0	221296.240	2.0
980.8485	24.00	-2.84	35807.900	2.0	46000.360	3.0
980.8494	28.01	-3.75	122821.630	5.5	133014.080	5.5
980.8605	17.00	-.87	84121.872	1.5	94314.206	1.5
980.8819	26.00	-2.88	44183.607	2.0	54375.719	2.0
980.8850	10.01	-.21	283894.410	.5	294086.490	1.5
980.9254	24.00	-4.77	33897.260	1.0	44088.920	1.0
980.9340	55.00	-3.08	18535.519	0.0	28729.885	0.0
980.9630	29.01	-4.25	125568.700	1.0	135759.970	2.0
980.9967	26.02	-4.37	188142.640	2.0	198333.560	2.0
981.0005	7.00	-.82	94793.460	1.5	104984.340	.5
981.0502	14.00	-4.28	47351.554	2.0	57541.918	1.0
981.0516	18.01	-.76	195031.120	2.5	205221.470	1.5
981.0747	28.01	-3.73	104646.520	3.5	114836.630	3.5
981.0822	22.00	-3.98	31628.668	5.0	41818.700	4.0
981.0853	9.02	-2.48	430012.480	1.5	440202.480	2.5
981.1382	26.01	-2.99	50212.930	2.5	60402.380	2.5
981.1418	26.00	-2.55	40421.890	4.0	50611.303	3.0
981.2036	9.00	-3.89	128514.750	3.5	138703.520	2.5
981.2123	7.01	-1.55	211103.630	3.0	221292.310	3.0
981.2595	26.02	-4.48	189024.530	5.0	199212.720	4.0
981.2742	22.00	-4.18	31829.972	4.0	42018.010	5.0
981.2778	8.01	-4.34	265763.000	3.5	275951.000	2.5
981.2817	10.01	-.82	292651.320	1.5	302839.280	2.5
981.2852	28.00	-4.01	46522.965	2.0	56710.889	2.0
981.3347	29.01	.07	135863.930	1.0	146051.340	1.0
981.3347	29.01	.43	135863.930	1.0	146051.340	2.0
981.3539	22.00	-2.77	18695.230	4.0	28882.440	3.0
981.4021	7.00	-1.57	94830.860	2.5	105017.570	3.5
981.4098	24.00	-1.80	35813.730	3.0	46000.360	3.0
981.4426	18.01	.88	196633.020	2.5	206819.310	3.5
981.5245	18.00	-2.68	113020.390	3.0	123205.830	3.0
981.5284	8.02	-1.38	370900.600	2.0	381086.000	1.0
981.5438	28.01	-4.37	106283.160	2.5	116468.400	1.5
981.5668	10.03	-.43	633790.000	1.5	643975.000	2.5
981.5784	17.00	-.76	88188.550	1.5	98373.430	2.5
981.6170	29.01	-4.13	138177.220	2.0	148361.700	1.0
981.6227	17.00	-2.05	88188.550	1.5	98372.970	1.5
981.6539	9.00	-2.08	118427.823	1.5	128611.920	1.5
981.6546	27.00	-3.47	44183.340	4.5	54367.430	5.5
981.6787	28.01	-2.28	100389.520	2.5	110573.360	2.5
981.6862	22.00	-2.78	27355.042	1.0	37538.804	2.0
981.6980	24.00	-4.99	33897.260	1.0	44080.900	2.0
981.7028	18.01	.76	195031.120	2.5	205214.710	3.5
981.7211	28.01	-2.33	122847.600	3.5	133031.000	4.5
981.7481	29.01	-2.28	135910.990	2.0	146094.110	3.0
981.7683	24.00	-1.08	47189.870	4.0	57372.780	4.0
981.8079	13.01	-1.73	132776.400	0.0	142958.900	1.0
981.8388	10.01	-.46	303237.910	1.5	313420.090	2.5
981.8532	18.01	-2.51	191169.520	1.5	201351.550	2.5
981.8609	25.01	-4.12	72648.800	4.0	82830.750	4.0
981.8754	8.02	.07	370524.200	2.0	380706.000	2.0
981.9014	28.01	-2.88	120002.860	3.5	130184.390	2.5
981.9399	10.01	-1.65	303237.910	1.5	313419.040	1.5
981.9602	28.01	-2.83	120044.950	4.5	130225.870	3.5
982.0008	28.01	-.16	121042.520	1.5	131223.020	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
982.0027	10.01	-1.31	292651.320	1.5	302831.800	.5
982.0056	28.01	-.70	121042.520	1.5	131222.970	1.5
982.0528	22.00	-2.08	38544.380	3.0	48724.340	2.0
982.1435	23.00	-7.03	14548.830	2.5	24727.850	2.5
982.1609	23.00	-4.79	29418.170	3.5	39597.010	4.5
982.1617	12.00	-1.41	47844.414	1.0	58023.246	2.0
982.1831	28.01	-2.86	98969.440	5.5	109148.050	4.5
982.1918	18.01	-1.66	200406.360	.5	210584.880	1.5
982.2162	9.00	-.07	118427.823	1.5	128606.090	2.5
982.2488	18.00	-4.89	114861.670	0.0	125039.600	1.0
982.2748	7.00	-.25	94830.860	2.5	105008.520	2.5
982.2873	26.00	-4.98	42991.680	5.0	53169.210	6.0
982.3394	10.00	-1.57	161509.630	0.0	171686.620	1.0
982.3626	28.01	-2.22	122837.330	4.5	133014.080	5.5
982.3781	27.00	-1.70	41918.410	3.5	52095.000	3.5
982.4012	8.01	-.74	248425.350	.5	258601.700	1.5
982.4168	22.00	-4.57	34204.971	4.0	44381.160	4.0
982.4263	10.01	-2.15	281025.940	2.5	291202.030	3.5
982.4292	29.01	-1.13	135931.270	6.0	146107.330	5.0
982.4640	18.01	-.32	191169.520	1.5	201345.220	1.5
982.4987	24.01	-4.19	74318.860	2.5	84494.200	2.5
982.5155	20.00	-3.06	38259.124	3.0	48434.290	2.0
982.5155	20.00	-2.05	38259.124	3.0	48434.290	3.0
982.5393	28.00	-4.63	48817.600	1.0	58992.520	2.0
982.5517	26.00	-3.95	45551.748	1.0	55726.540	0.0
982.5789	8.00	-2.70	97420.642	4.0	107595.152	3.0
982.5789	8.00	-1.53	97420.642	4.0	107595.152	4.0
982.5789	8.00	-.66	97420.642	4.0	107595.152	5.0
982.5837	18.01	-4.18	179931.770	1.5	190106.230	1.5
982.5865	8.00	-4.31	97420.728	3.0	107595.159	2.0
982.5865	8.00	-2.77	97420.728	3.0	107595.159	3.0
982.5865	8.00	-1.70	97420.728	3.0	107595.159	4.0
982.5872	8.00	-2.46	97420.728	3.0	107595.152	2.0
982.5872	8.00	-1.43	97420.728	3.0	107595.152	3.0
982.5872	8.00	-.88	97420.728	3.0	107595.152	4.0
982.5984	8.00	-3.09	97420.851	2.0	107595.159	2.0
982.5984	8.00	-2.19	97420.851	2.0	107595.159	3.0
982.5991	8.00	-2.43	97420.851	2.0	107595.152	1.0
982.5991	8.00	-1.43	97420.851	2.0	107595.152	2.0
982.5991	8.00	-1.05	97420.851	2.0	107595.152	3.0
982.6084	8.00	-2.85	97420.954	1.0	107595.159	2.0
982.6091	8.00	-1.57	97420.954	1.0	107595.152	1.0
982.6091	8.00	-1.26	97420.954	1.0	107595.152	2.0
982.6138	8.00	-1.56	97421.003	0.0	107595.152	1.0
982.6330	27.00	-4.23	42796.670	1.5	52970.620	2.5
982.6475	24.00	-3.40	35884.400	5.0	46058.200	4.0
982.6475	8.01	-3.25	255465.200	3.5	265639.000	3.5
982.7073	29.01	-3.58	135934.150	5.0	146107.330	5.0
982.7073	29.01	-1.21	135934.150	5.0	146107.330	4.0
982.7089	20.00	-1.67	36575.119	2.0	46748.283	1.0
982.7141	27.00	-3.84	44183.340	4.5	54356.450	4.5
982.7170	20.00	-1.94	37751.867	2.0	47924.947	3.0
982.7406	26.00	-4.23	43108.899	4.0	53281.735	5.0
982.7614	25.00	-3.18	45013.550	2.5	55186.170	2.5
982.7943	9.00	-4.88	128523.280	1.5	138695.560	1.5
982.8069	29.01	.18	135931.270	6.0	146103.420	6.0
982.8069	29.01	-1.70	135931.270	6.0	146103.420	5.0
982.8132	12.00	-1.89	47851.162	2.0	58023.246	2.0
982.8146	12.01	-1.43	105622.340	.5	115794.410	1.5
982.8822	24.00	-1.95	47189.870	4.0	57361.240	3.0
982.8822	10.01	-1.67	282375.330	1.5	292546.700	.5
982.8957	29.01	-1.82	123556.640	2.0	133727.870	2.0
982.9615	28.01	-2.45	120044.950	4.5	130215.500	4.5
982.9857	18.01	-2.93	147503.020	1.5	157673.320	2.5
982.9944	9.00	-3.70	128525.350	2.5	138695.560	1.5
983.0036	20.00	-2.56	37751.867	2.0	47921.981	3.0
983.0398	25.00	-2.90	47452.160	.5	57621.900	1.5
983.0485	22.00	-3.62	25926.820	4.0	36096.470	3.0
983.0803	15.00	-1.38	65787.380	3.5	75956.700	3.5
983.0852	29.01	.11	135934.150	5.0	146103.420	5.0
983.0852	29.01	-1.99	135934.150	5.0	146103.420	6.0
983.1016	22.00	-4.56	38159.710	3.0	48328.810	4.0
983.1084	22.00	-2.16	38670.710	4.0	48839.740	3.0
983.1152	27.00	-4.41	44183.340	4.5	54352.300	3.5
983.1683	24.00	-3.93	36552.130	3.0	46720.540	4.0
983.2134	22.00	-1.20	15220.390	5.0	25388.334	4.0
983.2366	16.00	-4.60	69236.936	2.0	79404.640	1.0
983.2707	26.00	-2.78	47834.529	5.0	58001.880	6.0
983.2708	25.00	-4.87	51546.270	4.5	61713.620	5.5
983.2733	28.00	-2.75	44565.100	3.0	54732.425	2.0
983.2999	24.00	-.42	47222.270	6.0	57389.320	6.0
983.3327	24.00	-2.26	48558.570	2.0	58725.280	1.0
983.3598	27.00	-3.39	43537.710	1.5	53704.140	2.5
983.3598	25.02	-3.37	208650.540	3.5	218816.970	2.5
983.3628	8.01	-2.87	255689.600	2.5	265856.000	2.5
983.4004	25.00	-2.16	52128.650	2.5	62294.660	3.5
983.4076	10.00	-2.64	161524.174	1.0	171690.110	2.0
983.4125	26.00	-1.72	40257.300	5.0	50423.185	4.0
983.4227	25.01	-4.50	91301.800	5.0	101467.580	6.0
983.4343	10.01	.02	292651.320	1.5	302816.980	1.5
983.4614	15.00	-.45	66544.120	2.5	76709.500	3.5
983.4614	7.00	-.61	94830.860	2.5	104996.240	1.5
983.5001	28.01	.02	118774.760	.5	128939.740	1.5
983.5281	12.01	-1.18	105629.720	1.5	115794.410	2.5
983.5281	12.01	-2.13	105629.720	1.5	115794.410	1.5
983.5368	8.01	-1.82	255691.400	3.5	265856.000	2.5
983.5384	20.00	-1.97	37757.449	3.0	47922.033	4.0
983.5398	29.01	-2.89	138003.200	2.0	148167.770	3.0
983.5434	20.00	-3.04	37757.449	3.0	47921.981	3.0
983.5765	28.01	-2.92	102742.740	1.5	112906.930	1.5
983.5765	28.01	-4.93	105981.500	4.5	116145.690	3.5
983.6007	28.01	-2.88	120044.950	4.5	130208.890	3.5
983.6052	26.00	-3.44	44285.436	2.0	54449.330	1.0
983.6288	25.02	-2.50	209032.300	5.5	219195.950	4.5
983.6481	26.00	-4.41	42991.680	5.0	53155.130	4.0
983.6491	25.01	-4.28	92516.650	4.0	102680.090	5.0
983.7038	22.00	-4.28	31205.985	3.0	41368.860	4.0
983.7169	18.01	.04	186470.280	1.5	196633.020	2.5
983.7188	25.00	-3.69	45981.440	2.5	56144.160	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
983.7207	28.01	-1.34	118803.820	6.5	128966.520	5.5
983.7427	17.00	-1.97	85735.091	1.5	95897.565	1.5
983.7454	10.00	-1.73	161524.174	1.0	171686.620	1.0
983.7454	10.00	-1.22	161524.174	1.0	171686.620	2.0
983.7691	23.00	-7.23	14949.300	4.5	25111.500	4.5
983.7924	29.01	-.67	135910.990	2.0	146072.950	2.0
983.7924	29.01	.66	135910.990	2.0	146072.950	3.0
983.7933	28.01	-1.71	120044.950	4.5	130206.900	4.5
983.8040	22.01	-6.15	20951.770	2.5	31113.610	3.5
983.8485	24.00	-3.25	35572.940	2.0	45734.320	2.0
983.8900	22.00	-1.64	27498.975	3.0	37659.927	3.0
983.8921	21.00	-1.74	25584.640	2.5	35745.570	2.5
983.9173	28.01	-1.59	120044.950	4.5	130205.620	5.5
983.9182	24.00	-1.43	47222.270	6.0	57382.930	5.0
983.9318	24.00	-1.46	47228.800	5.0	57389.320	6.0
983.9328	28.01	-1.18	126738.820	1.5	136899.330	1.5
983.9329	14.00	-1.67	49060.601	1.0	59221.110	0.0
983.9860	29.01	-4.67	135934.150	5.0	146094.110	4.0
984.0071	22.00	-3.19	38699.767	2.0	48859.510	1.0
984.0616	27.00	-4.02	42811.440	3.5	52970.620	2.5
984.1226	24.00	-1.92	35807.900	2.0	45966.450	2.0
984.1430	28.01	-3.40	105668.780	2.5	115827.120	3.5
984.1507	26.00	-4.05	48361.920	4.0	58520.180	4.0
984.1713	28.00	-2.23	45418.858	2.0	55576.905	3.0
984.1836	6.00	-1.47	77679.820	2.0	87837.740	2.0
984.2050	25.02	-3.28	208819.640	3.5	218977.340	3.5
984.2131	22.00	-4.67	36000.144	4.0	46157.760	5.0
984.2156	26.01	-4.50	92427.220	4.5	102584.810	5.5
984.2369	28.00	-3.71	48715.200	4.0	58872.570	4.0
984.2631	29.01	-3.45	138402.200	3.0	148559.300	2.0
984.2805	28.01	-1.70	118803.820	6.5	128960.740	6.5
984.2805	28.01	-1.03	118803.820	6.5	128960.740	5.5
984.2864	28.01	-2.09	109846.000	3.5	120002.860	3.5
984.3251	26.01	-3.00	49506.990	1.5	59663.450	1.5
984.3512	28.00	-2.62	49032.589	2.0	59188.780	3.0
984.4434	25.00	-2.96	47466.660	1.5	57621.900	1.5
984.5180	24.00	-1.88	27728.870	2.0	37883.340	2.0
984.5355	26.00	-3.09	50522.940	6.0	60677.230	5.0
984.5510	24.00	-.75	47228.800	5.0	57382.930	5.0
984.6470	29.01	-3.88	136270.260	4.0	146423.400	4.0
984.6482	26.00	-4.03	40894.972	2.0	51048.100	1.0
984.6877	24.00	-3.01	35813.730	3.0	45966.450	2.0
984.6906	25.00	-4.14	51560.930	5.5	61713.620	5.5
984.7353	24.00	-4.54	39158.630	4.0	49310.860	3.0
984.7485	26.00	-2.92	36940.600	2.0	47092.693	3.0
984.7760	24.00	-2.35	44666.740	1.0	54818.550	2.0
984.7973	27.00	-2.33	41918.410	3.5	52070.000	2.5
984.9264	28.01	-3.42	105588.890	4.5	115739.150	4.5
984.9285	22.00	-3.55	38764.832	3.0	48915.070	2.0
984.9458	18.01	1.14	195123.540	5.5	205273.600	6.5
984.9467	18.01	-.75	195123.540	5.5	205273.590	5.5
985.0115	26.00	-2.47	42911.897	5.0	53061.280	5.0
985.0151	26.00	-4.67	32873.623	4.0	43022.969	4.0
985.0564	27.00	-2.83	43555.220	3.5	53704.140	2.5
985.0574	29.01	.13	135902.430	0.0	146051.340	1.0
985.2234	6.00	-1.55	77679.820	2.0	87827.020	2.0
985.2234	7.00	-1.64	106477.800	.5	116625.000	1.5
985.2283	20.02	-.70	336749.110	1.0	346896.260	2.0
985.2312	6.00	-.98	77679.820	2.0	87826.940	3.0
985.2516	27.00	-2.46	43555.220	3.5	53702.130	3.5
985.3147	24.00	-3.54	35572.940	2.0	45719.200	1.0
985.3282	10.01	-.78	291801.880	1.5	301948.000	1.5
985.3554	6.00	-3.37	75253.970	1.0	85399.810	2.0
985.4060	18.01	1.07	195128.270	4.5	205273.590	5.5
985.4108	28.01	-3.43	117074.700	3.5	127219.970	3.5
985.4468	8.01	-.10	255843.100	1.5	265988.000	2.5
985.4711	10.01	-2.88	303599.930	3.5	313744.580	4.5
985.4759	20.01	-.24	60533.020	.5	70677.620	.5
985.4759	10.01	-4.44	303599.930	3.5	313744.530	3.5
985.4817	6.00	-3.08	75255.270	2.0	85399.810	2.0
985.4963	20.02	.85	360388.680	3.0	370533.070	4.0
985.5157	25.00	-3.96	35114.980	2.5	45259.170	1.5
985.5178	26.00	-3.87	43922.652	3.0	54066.821	2.0
985.5313	10.01	-2.77	303600.500	2.5	313744.530	3.5
985.5361	24.00	-1.67	47228.800	5.0	57372.780	4.0
985.5422	26.00	-3.86	43922.652	3.0	54066.570	4.0
985.5711	27.00	-4.07	43199.650	2.5	53343.270	1.5
985.5935	25.00	-3.56	46000.770	3.5	56144.160	3.5
985.6498	24.00	-3.89	36577.730	4.0	46720.540	4.0
985.6965	28.01	-.60	118803.820	6.5	128946.150	7.5
985.7402	18.01	-4.25	200393.020	4.5	210534.900	4.5
985.7976	22.00	-4.02	31373.801	3.0	41515.090	4.0
985.8481	17.00	-1.73	90749.360	2.5	100890.130	2.5
985.8749	17.00	-1.36	90749.360	2.5	100889.855	3.5
985.8848	26.00	-4.02	44415.057	4.0	54555.450	4.0
985.8889	29.01	-.76	135910.990	2.0	146051.340	1.0
985.8889	29.01	.22	135910.990	2.0	146051.340	2.0
985.9055	6.00	-1.03	73975.910	0.0	84116.090	1.0
985.9073	14.00	-3.41	50566.397	1.0	60706.558	1.0
985.9152	6.00	-.63	77679.820	2.0	87819.900	3.0
985.9210	23.00	-7.60	10892.500	3.5	21032.520	3.5
985.9256	22.00	-3.14	38699.767	2.0	48839.740	3.0
985.9560	28.01	-1.33	120044.950	4.5	130184.610	5.5
985.9619	8.01	-3.86	255622.400	.5	265762.000	1.5
985.9704	20.00	-1.48	31539.495	1.0	41679.008	1.0
985.9862	27.00	-3.25	43555.220	3.5	53694.570	3.5
985.9881	29.01	-2.21	134675.600	2.0	144814.930	3.0
986.0201	9.00	-2.90	116143.579	.5	126282.580	1.5
986.0202	15.01	-1.77	129666.100	2.0	139805.100	3.0
986.0202	13.01	-2.90	132819.900	2.0	142958.900	1.0
986.0202	13.01	-3.38	132819.900	1.0	142958.900	1.0
986.0513	18.01	-.29	200393.020	4.5	210531.700	5.5
986.0529	26.00	-4.26	44022.518	4.0	54161.182	3.0
986.1174	8.01	-2.10	265859.000	.5	275997.000	.5
986.1223	24.00	-3.71	44666.740	1.0	54804.690	1.0
986.1428	29.01	1.19	135931.270	6.0	146069.010	7.0
986.1428	29.01	-.76	135931.270	6.0	146069.010	6.0
986.1602	26.00	-3.17	43022.969	4.0	53160.530	3.0
986.1622	24.00	-4.05	35862.820	4.0	46000.360	3.0
986.1664	26.00	-.57	40842.130	3.0	50979.627	4.0
986.1846	7.01	-1.06	211030.070	3.0	221167.380	4.0
986.1972	29.01	-1.35	136799.300	2.0	146936.480	2.0
986.3013	24.00	-4.83	36552.130	3.0	46688.240	3.0
986.3335	7.00	-0.00	94881.790	3.5	105017.570	3.5
986.3591	10.00	-3.54	161524.174	1.0	171659.690	2.0
986.4123	28.01	-1.17	118809.340	1.5	128944.310	2.5
986.4152	18.01	-3.31	172816.210	.5	182951.150	.5
986.4230	29.01	1.13	135934.150	5.0	146069.010	6.0
986.4335	28.00	-2.34	44565.100	3.0	54699.852	3.0
986.4502	9.02	-2.01	442636.270	3.5	452770.850	3.5
986.5417	7.01	-.51	211030.070	3.0	221163.710	3.0
986.5417	7.01	.88	211030.070	3.0	221163.710	4.0
986.5437	23.00	-2.20	13801.530	1.5	23935.150	2.5
986.5466	25.01	-3.62	72010.750	4.0	82144.340	3.0
986.5700	23.00	-8.40	14514.750	1.5	24648.100	1.5
986.6041	17.01	-1.92	121635.000	3.0	131768.000	2.0
986.6138	23.00	-3.64	17054.870	2.5	27187.770	2.5
986.6391	29.01	-3.50	136270.260	4.0	146402.900	5.0
986.6693	27.00	-1.73	44183.340	4.5	54315.670	5.5
986.6761	28.01	.42	121090.710	.5	131222.970	1.5
986.6857	26.00	-3.32	43022.969	4.0	53155.130	4.0
986.6951	26.00	-4.28	44551.325	3.0	54683.390	4.0
986.8161	26.00	-3.41	36975.640	3.0	47106.463	4.0
986.8193	29.01	.79	138003.200	2.0	148133.990	3.0
986.8193	29.01	-.34	138003.200	2.0	148133.990	2.0
986.8202	7.01	.75	211032.930	2.0	221163.710	3.0
986.8339	22.00	-3.92	37976.780	2.0	48107.420	2.0
986.8573	28.01	-.51	118809.340	1.5	128939.740	1.5
986.8651	28.01	-1.09	127991.560	3.5	138121.880	4.5
986.9128	24.00	-3.55	35870.530	4.0	46000.360	3.0
986.9196	28.01	-1.69	118828.610	2.5	128958.370	3.5
986.9264	24.00	-4.37	36558.550	2.0	46688.240	3.0
987.0219	27.00	-4.36	41041.430	3.5	51170.140	4.5
987.0298	18.01	-2.47	190106.230	1.5	200234.860	2.5
987.0502	14.00	-2.36	53362.240	3.0	63490.660	3.0
987.0609	29.01	-1.42	108014.660	3.0	118142.970	3.0
987.0629	7.01	-.02	211103.630	3.0	221231.920	4.0
987.0911	29.01	-3.12	128853.300	2.0	138981.300	2.0
987.1642	24.00	-3.52	36577.730	4.0	46704.980	5.0
987.1691	14.00	-3.55	53362.240	3.0	63489.440	2.0
987.2149	7.00	-.65	94881.790	3.5	105008.520	2.5
987.2198	20.02	.17	360388.680	3.0	370515.360	3.0
987.2207	14.00	-1.24	53362.240	3.0	63488.910	4.0
987.2754	27.00	-4.01	41968.890	2.5	52095.000	3.5
987.2843	14.00	-3.86	54257.582	3.0	64383.600	4.0
987.2860	11.00	-4.62	29172.839	2.5	39298.840	1.5
987.3036	28.01	-2.56	119656.250	3.5	129782.070	3.5
987.3085	14.00	-2.47	53362.240	3.0	63488.010	3.0
987.3387	11.00	-4.88	29172.889	1.5	39298.350	.5
987.3397	25.01	-3.03	72010.750	4.0	82136.200	4.0
987.3485	25.00	-2.75	45060.810	3.5	55186.170	2.5
987.3544	13.01	-1.70	124792.000	2.0	134917.300	1.0
987.3904	24.00	-2.66	36552.130	3.0	46677.060	2.0
987.4236	28.01	-1.90	93528.440	3.5	103653.030	3.5
987.5104	23.01	-2.87	30306.400	3.0	40430.100	4.0
987.5767	7.01	-1.08	211103.630	3.0	221226.650	3.0
987.5969	17.00	.16	74865.667	.5	84988.480	1.5
987.6509	28.01	.39	118828.610	2.5	128950.870	3.5
987.6573	17.00	-.56	90749.360	2.5	100871.554	3.5
987.6997	18.01	-1.42	195128.270	4.5	205250.030	3.5
987.7621	28.01	.31	118803.820	6.5	128924.940	6.5
987.7621	28.01	1.21	118803.820	6.5	128924.940	7.5
987.8109	26.00	-4.28	40257.300	5.0	50377.920	5.0
987.8519	27.00	-3.56	44394.470	3.5	54514.670	3.5
987.8910	24.00	-2.93	36558.550	2.0	46678.350	1.0
987.9446	27.00	-4.19	42796.670	1.5	52915.920	.5
987.9597	22.00	-2.49	15108.121	3.0	25227.217	3.0
987.9709	26.00	-4.80	44760.739	1.0	54879.720	2.0
987.9905	28.01	-3.94	117872.780	2.5	127991.560	3.5
988.0032	28.01	-3.47	105838.060	3.5	115956.710	2.5
988.0120	23.00	-4.83	21603.170	4.5	31721.730	4.5
988.0169	24.00	-4.25	36558.550	2.0	46677.060	2.0
988.0654	9.00	-3.05	118405.267	.5	128523.280	1.5
988.0765	8.01	.03	255843.100	1.5	265961.000	2.5
988.0911	29.01	-1.22	136442.050	3.0	146559.800	4.0
988.1204	28.01	.63	120203.490	2.5	130320.940	3.5
988.1243	25.00	-3.47	46026.750	4.5	56144.160	3.5
988.1468	29.01	-2.00	135990.150	3.0	146107.330	4.0
988.1592	26.00	-2.33	36975.640	3.0	47092.693	3.0
988.1859	28.01	-2.54	119665.290	2.5	129782.070	3.5
988.2171	17.00	-1.49	90749.360	2.5	100865.820	2.5
988.2190	18.00	-.78	115366.900	1.0	125483.340	2.0
988.2288	18.01	-2.85	190507.360	1.5	200623.700	.5
988.2620	17.00	-2.61	90749.360	2.5	100865.360	1.5
988.2806	24.00	-3.83	35618.510	1.0	45734.320	2.0
988.2904	6.00	-3.71	78529.620	3.0	88645.330	2.0
988.2914	28.01	-.78	118828.610	2.5	128944.310	2.5
988.3324	15.00	-2.36	66544.120	2.5	76659.400	2.5
988.3382	7.00	-1.44	94770.850	.5	104886.070	.5
988.3617	29.01	-.03	138064.320	5.0	148179.300	5.0
988.3617	29.01	-1.76	138064.320	5.0	148179.300	4.0
988.3643	9.00	-.27	118405.267	.5	128520.220	.5
988.3705	28.01	.38	120199.180	1.5	130314.070	2.5
988.3852	25.00	-2.81	35041.370	3.5	45156.110	2.5
988.4037	29.01	-2.54	136442.050	3.0	146556.600	3.0
988.4096	29.01	.48	135958.460	1.0	146072.950	2.0
988.5151	28.01	-1.15	120211.300	5.5	130324.710	4.5
988.5161	29.01	-1.29	138402.200	3.0	148515.600	4.0
988.5797	22.00	-3.50	35577.140	2.0	45689.890	3.0
988.5997	26.00	-4.12	40421.890	4.0	50534.435	3.0
988.6100	28.01	-1.37	121120.880	5.5	131233.320	4.5
988.6256	6.00	-3.32	78148.090	2.0	88260.370	2.0
988.6265	9.02	-3.70	442636.270	3.5	452748.540	2.5
988.6549	28.01	-4.53	106620.530	3.5	116732.510	2.5
988.6706	28.01	-.84	118848.920	7.5	128960.740	6.5
988.6892	24.00	-1.89	44875.190	2.0	54986.820	3.0
988.6979	7.01	-2.23	211030.070	3.0	221141.610	3.0
988.7047	14.00	-1.44	50189.389	2.0	60300.860	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
988.7048	23.01	-1.87	30318.630	4.0	40430.100	4.0
988.7116	18.01	-4.78	182222.030	1.5	192333.430	.5
988.7380	28.01	-.68	118828.610	2.5	128939.740	1.5
988.7390	7.01	.84	211056.260	3.0	221167.380	4.0
988.7410	15.03	.13	293238.900	2.0	303350.000	3.0
988.7918	28.01	.42	120203.490	2.5	130314.070	2.5
988.7987	24.00	-2.80	36577.730	4.0	46688.240	3.0
988.8055	28.01	-1.36	120211.300	5.5	130321.740	5.5
988.8255	22.00	-2.57	32013.534	6.0	42123.770	6.0
988.8349	18.01	-4.63	148620.070	1.5	158730.210	2.5
988.8858	10.01	-2.83	280262.330	3.5	290371.950	2.5
988.8887	10.01	-2.07	280473.580	1.5	290583.170	1.5
988.8976	26.00	-.45	40594.413	4.0	50703.912	5.0
988.9776	6.00	-4.58	78529.620	3.0	88638.300	2.0
988.9776	6.00	-2.47	78529.620	3.0	88638.300	3.0
988.9776	7.01	-4.93	211032.930	2.0	221141.610	3.0
989.0217	24.00	-2.93	26787.500	3.0	36895.730	3.0
989.0530	28.01	-2.09	121125.410	4.5	131233.320	4.5
989.0569	28.01	-1.40	121125.410	4.5	131233.280	3.5
989.0628	20.01	-.54	68056.910	3.5	78164.720	3.5
989.0628	20.01	1.01	68056.910	3.5	78164.720	4.5
989.0628	20.01	.90	68056.910	2.5	78164.720	3.5
989.0980	7.01	-1.47	211056.260	3.0	221163.710	3.0
989.0980	7.01	-.97	211056.260	3.0	221163.710	4.0
989.1019	27.00	-3.12	21920.090	4.5	32027.500	3.5
989.1088	25.00	-2.25	53124.090	3.5	63231.430	4.5
989.1098	7.01	.94	211060.240	4.0	221167.570	5.0
989.1166	28.01	-2.92	111120.540	1.5	121227.800	2.5
989.1284	7.01	-.70	211060.240	4.0	221167.380	4.0
989.1401	10.01	-.33	294333.220	.5	304440.240	.5
989.1647	8.00	-1.10	97488.390	1.0	107595.159	2.0
989.1654	8.00	-3.32	97488.390	1.0	107595.152	1.0
989.1654	8.00	-3.02	97488.390	1.0	107595.152	2.0
989.1715	8.00	-1.85	97488.460	2.0	107595.159	2.0
989.1715	8.00	-.94	97488.460	2.0	107595.159	3.0
989.1722	8.00	-2.68	97488.460	2.0	107595.152	2.0
989.1722	8.00	-3.68	97488.460	2.0	107595.152	1.0
989.1722	8.00	-2.30	97488.460	2.0	107595.152	3.0
989.1725	14.00	-1.30	49399.670	1.0	59506.359	2.0
989.1793	18.01	-1.96	200406.360	.5	210512.980	1.5
989.1804	8.00	-3.42	97488.550	3.0	107595.159	2.0
989.1804	8.00	-1.88	97488.550	3.0	107595.159	3.0
989.1804	8.00	-.81	97488.550	3.0	107595.159	4.0
989.1810	8.00	-2.33	97488.550	3.0	107595.152	3.0
989.1810	8.00	-1.78	97488.550	3.0	107595.152	4.0
989.1810	8.00	-3.35	97488.550	3.0	107595.152	2.0
989.2762	29.01	-2.02	138073.670	4.0	148179.300	5.0
989.2762	29.01	-.12	138073.670	4.0	148179.300	4.0
989.3016	24.00	-3.53	40930.310	1.0	51035.680	2.0
989.3095	29.01	.60	138028.700	1.0	148133.990	2.0
989.3459	28.00	-3.54	40361.254	3.0	50466.172	4.0
989.3476	29.01	-4.76	128778.100	4.0	138883.000	4.0
989.3829	25.02	-2.92	209091.410	5.5	219195.950	4.5
989.3917	6.00	-1.70	78529.620	3.0	88634.070	4.0
989.4005	6.00	-2.54	78529.620	3.0	88633.980	3.0
989.4242	14.00	-3.65	50602.440	0.0	60706.558	1.0
989.4397	29.01	-.53	135990.150	3.0	146094.110	3.0
989.4397	29.01	.81	135990.150	3.0	146094.110	4.0
989.4619	22.00	-2.80	31914.277	5.0	42018.010	5.0
989.4638	26.00	-4.34	40894.972	2.0	50998.686	2.0
989.4828	28.01	-1.08	120218.220	6.5	130321.740	5.5
989.4877	28.01	-.03	118809.340	1.5	128912.810	2.5
989.4877	7.01	-2.67	211060.240	4.0	221163.710	3.0
989.4877	7.01	-1.12	211060.240	4.0	221163.710	4.0
989.4896	29.01	-1.57	138064.320	5.0	148167.770	4.0
989.4906	20.00	-1.87	36731.615	1.0	46835.055	0.0
989.4945	15.03	-.78	293246.600	3.0	303350.000	3.0
989.5141	7.00	-2.04	106477.800	.5	116581.000	.5
989.5141	7.00	-4.50	106477.800	.5	116581.000	1.5
989.5347	10.01	-1.94	280268.960	2.5	290371.950	2.5
989.5505	28.00	-2.12	44565.100	3.0	54667.928	4.0
989.6111	28.01	.17	120211.300	5.5	130313.510	5.5
989.6513	8.01	.37	255897.200	2.5	265999.000	3.5
989.7282	10.00	-3.17	161590.346	4.0	171691.360	3.0
989.7282	10.00	-1.62	161590.346	4.0	171691.360	4.0
989.7567	26.00	-4.76	44285.436	2.0	54386.160	1.0
989.7600	24.00	-3.57	35618.510	1.0	45719.200	1.0
989.7963	27.00	-3.46	43242.950	2.5	53343.270	1.5
989.8031	17.00	-.79	88272.720	.5	98372.970	1.5
989.8080	8.01	-4.91	255755.800	2.5	265856.000	2.5
989.8443	18.00	-4.12	114975.070	1.0	125074.900	2.0
989.8507	10.00	-2.91	161590.346	4.0	171690.110	3.0
989.8784	28.00	-1.91	44475.158	2.0	54574.640	1.0
989.8815	24.00	-2.78	26796.280	2.0	36895.730	3.0
989.8815	24.00	-3.48	44875.190	2.0	54974.640	2.0
989.8938	28.00	-1.27	34163.294	2.0	44262.619	2.0
989.8992	23.00	-8.69	14548.830	2.5	24648.100	1.5
989.9021	10.00	-1.73	161592.120	3.0	171691.360	3.0
989.9021	10.00	-3.22	161592.120	3.0	171691.360	4.0
989.9196	28.00	-2.68	43654.974	3.0	53754.036	2.0
989.9413	14.00	-.01	54205.090	2.0	64303.930	3.0
989.9590	15.00	-3.62	66813.040	1.5	76911.700	.5
990.0247	10.00	-3.04	161592.120	3.0	171690.110	2.0
990.0247	10.00	-4.43	161592.120	3.0	171690.110	3.0
990.0560	28.01	1.16	121120.880	5.5	131218.550	6.5
990.0575	10.00	-2.32	161590.346	4.0	171688.000	4.0
990.0575	10.00	-.68	161590.346	4.0	171688.000	5.0
990.0648	18.01	-.80	189040.870	1.5	199138.450	1.5
990.0688	28.01	-2.61	100475.820	3.5	110573.360	2.5
990.0700	9.00	-1.39	118427.823	1.5	128525.350	2.5
990.0795	9.00	-4.83	128606.090	2.5	138703.520	2.5
990.0844	20.02	-.47	360207.160	2.0	370304.540	2.0
990.0894	24.00	-2.12	24093.160	2.0	34190.490	2.0
990.0923	28.01	1.27	118848.920	7.5	128946.220	8.5
990.0992	28.01	.34	118848.920	7.5	128946.150	7.5
990.1609	8.01	-2.99	255759.400	3.5	265856.000	2.5
990.2316	10.00	-.78	161592.120	3.0	171688.000	4.0
990.2404	24.00	-1.50	45113.220	3.0	55209.010	4.0
990.2512	28.01	-3.49	121125.410	4.5	131221.090	3.5
990.2551	29.01	-3.48	125568.700	1.0	135664.340	1.0
990.2551	27.00	-4.52	41104.960	2.5	51200.600	1.5
990.2669	28.01	-2.96	105861.190	2.5	115956.710	2.5
990.2731	9.00	-.11	118427.823	1.5	128523.280	1.5
990.2894	28.01	-1.45	120218.220	6.5	130313.510	5.5
990.3404	28.01	-4.42	121561.060	.5	131655.830	.5
990.3464	6.01	-.53	168978.340	3.5	179073.050	3.5
990.3464	6.01	1.01	168978.340	3.5	179073.050	4.5
990.3464	6.01	.90	168978.340	2.5	179073.050	3.5
990.3552	27.00	-4.73	41104.960	2.5	51199.580	3.5
990.3729	15.00	-.26	57876.700	.5	67971.140	.5
990.3865	26.00	-3.60	45281.816	2.0	55376.117	1.0
990.4042	25.00	-4.59	35165.050	1.5	45259.170	1.5
990.4062	29.01	-3.75	138073.670	4.0	148167.770	4.0
990.4062	29.01	-1.66	138073.670	4.0	148167.770	3.0
990.4156	26.00	-2.66	44285.436	2.0	54379.440	3.0
990.4189	25.00	-4.48	45013.550	2.5	55107.520	3.5
990.4248	18.01	-1.88	163299.470	2.5	173393.380	2.5
990.4484	24.00	-1.97	28637.000	3.0	38730.670	2.0
990.5033	28.01	1.22	120218.220	6.5	130311.330	7.5
990.5072	7.01	-3.09	211287.230	3.0	221380.300	3.0
990.5259	29.01	-.47	135958.460	1.0	146051.340	1.0
990.5259	29.01	-.20	135958.460	1.0	146051.340	2.0
990.5524	7.00	-2.56	94793.460	1.5	104886.070	.5
990.5720	28.01	-1.55	118874.110	3.5	128966.520	4.5
990.5733	9.00	-1.08	118427.823	1.5	128520.220	.5
990.5848	14.00	-.91	54205.090	2.0	64297.370	3.0
990.5867	18.01	-.42	196305.040	3.5	206397.300	3.5
990.5877	18.01	.64	196305.040	3.5	206397.290	4.5
990.6388	18.01	-1.22	150147.620	2.5	160239.350	1.5
990.6545	24.00	-3.84	45113.220	3.0	55204.790	3.0
990.6615	26.00	-4.37	47606.092	5.0	57697.590	4.0
990.6829	26.00	-3.36	44166.240	3.0	54257.520	2.0
990.6918	24.00	-4.76	37883.340	2.0	47974.530	3.0
990.6928	28.01	-1.23	120222.890	1.5	130314.070	2.5
990.6938	18.01	-2.15	195123.540	5.5	205214.710	4.5
990.7203	15.00	-2.39	65585.000	2.5	75675.900	1.5
990.7301	8.01	-1.05	255897.200	2.5	265988.000	2.5
990.7536	27.00	-4.74	46454.950	1.5	56545.510	2.5
990.7576	28.01	.65	118874.110	3.5	128964.630	4.5
990.7595	28.01	1.15	120211.300	5.5	130301.800	6.5
990.7808	26.00	-2.56	44285.436	2.0	54375.719	2.0
990.7889	13.01	-3.68	95348.200	0.0	105438.400	1.0
990.8606	9.00	-4.03	128606.090	2.5	138695.560	1.5
990.8783	25.00	-3.27	51638.170	2.5	61727.460	2.5
990.8950	10.01	-1.12	291968.140	.5	302057.260	.5
990.9215	7.00	-1.99	94770.850	.5	104859.700	1.5
990.9363	27.00	-3.02	43847.980	3.5	53936.680	2.5
990.9579	18.01	-1.25	195123.540	5.5	205212.020	4.5
990.9707	18.01	.06	195123.540	5.5	205211.890	5.5
990.9819	14.00	-2.16	47284.061	1.0	57372.297	2.0
991.0139	21.00	-3.38	14926.240	2.5	25014.150	2.5
991.0247	8.01	-.56	255897.200	2.5	265985.000	3.5
991.0571	8.01	-.04	248514.230	1.5	258601.700	1.5
991.0581	18.01	-2.44	189437.690	.5	199525.150	1.5
991.0699	27.00	-3.00	41982.660	1.5	52070.000	2.5
991.0719	6.00	-3.02	78104.980	0.0	88192.300	1.0
991.0956	22.00	-2.85	31829.972	4.0	41917.050	4.0
991.1023	29.01	-1.44	136799.300	2.0	146886.310	1.0
991.1456	16.01	-2.49	118146.500	1.5	128233.070	2.5
991.1476	9.02	-2.99	432060.640	1.5	442147.190	2.5
991.1583	18.01	-.40	195128.270	4.5	205214.710	4.5
991.1662	21.00	-.63	25584.640	2.5	35671.000	1.5
991.1721	28.01	-.60	121146.980	2.5	131233.280	3.5
991.2399	7.00	-2.61	93581.520	.5	103667.130	1.5
991.2409	29.01	-3.03	118484.000	3.0	128569.600	2.0
991.2536	28.00	-2.47	49032.589	2.0	59118.060	2.0
991.2556	7.01	-1.67	211294.850	4.0	221380.300	3.0
991.2654	7.01	-2.34	211056.260	3.0	221141.610	3.0
991.2792	27.00	-4.01	15184.040	2.5	25269.250	3.5
991.3040	14.00	-1.71	49188.617	2.0	59273.575	1.0
991.3097	8.01	-2.10	255843.100	1.5	265928.000	1.5
991.3116	26.00	-4.10	40257.300	5.0	50342.180	6.0
991.3726	28.01	-1.65	118874.110	3.5	128958.370	3.5
991.3785	28.01	.54	118828.610	2.5	128912.810	2.5
991.4228	18.01	-.25	195128.270	4.5	205212.020	4.5
991.4355	18.01	-1.80	195128.270	4.5	205211.890	5.5
991.4394	28.01	-.61	120218.220	6.5	130301.800	6.5
991.4552	6.00	-1.56	77679.820	2.0	87763.240	3.0
991.4621	28.01	-1.59	120144.170	2.5	130227.520	2.5
991.4630	28.01	-2.53	108548.610	1.5	118631.950	.5
991.5114	10.00	-2.15	161607.261	2.0	171690.110	2.0
991.5114	10.00	-1.01	161607.261	2.0	171690.110	3.0
991.5122	23.00	-7.59	14910.040	3.5	24992.880	3.5
991.5161	29.01	-1.06	135990.150	3.0	146072.950	2.0
991.5161	29.01	.35	135990.150	3.0	146072.950	3.0
991.5358	27.00	-1.68	44394.470	3.5	54477.070	3.5
991.5545	28.01	-2.57	100490.950	1.5	110573.360	2.5
991.5554	6.00	-1.71	77679.820	2.0	87762.220	2.0
991.5653	6.00	-.54	77679.820	2.0	87762.120	3.0
991.5879	22.00	-4.42	37976.780	2.0	48058.850	1.0
991.6007	14.02	-2.43	240284.280	2.0	250366.220	3.0
991.6105	11.00	-1.95	30266.990	.5	40348.830	1.5
991.6155	18.01	-.14	196315.510	2.5	206397.300	3.5
991.6243	28.01	-1.46	120144.170	2.5	130225.870	3.5
991.6341	10.01	-3.88	281720.280	1.5	291801.880	1.5
991.6460	6.00	-2.61	78116.740	1.0	88198.220	2.0
991.6489	29.01	1.13	138064.320	5.0	148145.770	6.0
991.6489	29.01	-.68	138064.320	5.0	148145.770	5.0
991.6568	7.01	-2.13	211060.240	4.0	221141.610	3.0
991.7020	8.01	-3.00	245816.290	1.5	255897.200	2.5
991.7119	27.00	-2.54	44201.920	2.5	54282.730	2.5
991.7266	28.01	-4.94	96052.480	2.5	106133.140	1.5
991.8063	29.01	.68	136014.260	2.0	146094.110	3.0
991.8073	26.00	-2.49	40534.180	3.0	50614.020	4.0
991.8112	29.01	-3.45	138402.200	3.0	148482.000	3.0
991.8211	27.00	-2.45	43263.570	1.5	53343.270	1.5
991.8496	23.01	-5.86	26839.820	3.0	36919.230	3.0
991.8547	10.00	-2.58	161607.261	2.0	171686.620	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
991.8547	10.00	-1.63	161607.261	2.0	171686.620	2.0
991.9382	24.00	-3.84	35640.690	0.0	45719.200	1.0
991.9559	28.01	-2.95	119909.720	1.5	129988.050	2.5
991.9697	26.01	-4.43	74606.970	2.5	84685.160	3.5
992.0081	17.02	-3.98	194959.500	2.5	205037.300	1.5
992.0120	15.00	-1.59	67971.140	.5	78048.900	.5
992.0254	17.00	-1.97	85917.937	.5	95995.561	.5
992.0612	24.00	-4.75	31009.000	3.0	41086.260	3.0
992.0671	15.00	-4.18	66834.500	1.5	76911.700	.5
992.1105	28.01	.65	118874.110	3.5	128950.870	3.5
992.1292	26.00	-3.10	36940.600	2.0	47017.170	3.0
992.1410	10.01	-2.42	282375.330	1.5	292451.780	1.5
992.1607	11.00	-1.69	30272.580	1.5	40348.830	2.5
992.1607	11.00	-2.65	30272.580	1.5	40348.830	1.5
992.1814	28.01	-.20	121146.980	2.5	131223.020	2.5
992.1833	28.01	-1.51	118848.920	7.5	128924.940	6.5
992.1833	28.01	-.56	118848.920	7.5	128924.940	7.5
992.1863	28.01	-1.36	121146.980	2.5	131222.970	1.5
992.2287	6.00	-3.33	78116.740	1.0	88192.300	1.0
992.2543	8.01	-2.91	245767.800	.5	255843.100	1.5
992.2928	22.00	-2.48	38764.832	3.0	48839.740	3.0
992.2936	29.01	-3.14	118484.000	3.0	128558.900	3.0
992.3074	28.01	-2.58	108368.050	2.5	118442.810	1.5
992.3208	22.00	-.41	27750.124	5.0	37824.748	4.0
992.3291	28.01	.29	120250.170	3.5	130324.710	4.5
992.3368	22.00	-4.56	17540.205	3.0	27614.667	4.0
992.3714	28.01	.81	121146.980	2.5	131221.090	3.5
992.3908	26.00	-2.77	44183.607	2.0	54257.520	2.0
992.3951	25.02	-3.24	208743.100	2.5	218816.970	2.5
992.4022	28.00	-4.24	47030.148	3.0	57103.946	3.0
992.4286	28.01	.03	118892.990	5.5	128966.520	5.5
992.4286	28.01	-.50	118892.990	5.5	128966.520	4.5
992.4409	26.00	-3.38	28604.610	2.0	38678.015	2.0
992.4532	28.01	-.80	118893.240	6.5	128966.520	5.5
992.4709	28.01	-3.35	128855.600	6.5	138928.700	7.5
992.4995	25.00	-2.99	51638.170	2.5	61710.980	3.5
992.5695	29.01	1.05	138073.670	4.0	148145.770	5.0
992.5823	24.00	-4.96	36895.730	3.0	46967.700	2.0
992.5862	29.01	-1.50	134743.000	4.0	144814.930	3.0
992.6099	29.01	.85	136035.640	3.0	146107.330	4.0
992.6148	28.01	-1.27	118892.990	5.5	128964.630	4.5
992.6818	26.00	-2.76	44166.240	3.0	54237.200	4.0
992.6868	26.00	-2.87	44378.420	1.0	54449.330	1.0
992.6927	23.00	-4.66	17116.920	3.5	27187.770	2.5
992.7006	28.01	.47	120250.170	3.5	130320.940	3.5
992.7163	18.01	.34	209251.460	3.5	219322.070	4.5
992.7173	22.00	-3.23	38654.230	1.0	48724.830	1.0
992.7341	22.00	-1.34	15156.787	4.0	25227.217	3.0
992.7568	28.01	-1.21	118874.110	3.5	128944.310	2.5
992.7656	22.00	-3.06	38654.230	1.0	48724.340	2.0
992.8159	26.00	-4.35	42991.680	5.0	53061.280	5.0
992.8623	7.01	-1.21	211294.850	4.0	221363.980	5.0
992.8751	8.01	-4.29	265928.000	1.5	275997.000	.5
992.8830	18.01	.80	209248.550	2.5	219317.470	3.5
992.9839	22.00	-2.10	36000.144	4.0	46068.040	4.0
992.9965	26.00	-4.71	43325.946	3.0	53393.715	4.0
992.9983	28.01	-.94	118892.990	5.5	128960.740	6.5
992.9983	28.01	.35	118892.990	5.5	128960.740	5.5
993.0230	28.01	.56	118893.240	6.5	128960.740	6.5
993.0230	28.01	-.53	118893.240	6.5	128960.740	5.5
993.0368	26.00	-4.88	33095.922	4.0	43163.282	4.0
993.0398	28.01	-2.33	109846.000	3.5	119913.330	4.5
993.0506	28.01	.37	118877.090	1.5	128944.310	2.5
993.0843	22.00	-3.54	31489.451	4.0	41556.330	5.0
993.0901	22.01	-4.52	20891.880	3.5	30958.700	2.5
993.1129	20.00	-2.81	38192.392	1.0	48258.980	2.0
993.1374	20.01	.06	60611.280	1.5	70677.620	.5
993.1473	7.00	-1.07	94793.460	1.5	104859.700	1.5
993.1680	18.01	.78	209251.460	3.5	219317.490	4.5
993.1700	18.01	-.63	209251.460	3.5	219317.470	3.5
993.1769	10.01	-1.10	302750.810	3.5	312816.750	4.5
993.1801	20.00	-2.37	38192.392	1.0	48258.300	1.0
993.1838	10.01	-4.10	313457.540	2.5	323523.410	2.5
993.1868	10.01	-3.40	313457.570	3.5	323523.410	2.5
993.2687	23.00	-3.41	20767.570	3.5	30832.580	2.5
993.2765	22.00	-4.47	38959.499	4.0	49024.430	3.0
993.2973	28.01	-.75	120144.170	2.5	130208.890	3.5
993.3161	18.00	-4.56	114975.070	1.0	125039.600	1.0
993.3318	27.00	-4.11	41968.890	2.5	52033.260	1.5
993.3378	26.02	-2.71	213974.420	6.0	224038.730	5.0
993.3782	28.01	-.36	120250.170	3.5	130314.070	2.5
993.3880	8.01	-.80	255897.200	2.5	265961.000	2.5
993.4088	18.00	-1.56	114805.180	2.0	124868.770	3.0
993.4167	10.01	-4.11	313461.990	5.5	323525.500	5.5
993.4266	25.02	-2.41	181949.340	2.5	192012.750	1.5
993.4315	27.00	-4.90	41969.900	.5	52033.260	1.5
993.5016	28.01	.31	118877.090	1.5	128939.740	1.5
993.5016	18.01	-4.54	179592.130	2.5	189654.780	2.5
993.6349	6.00	-4.22	78199.070	2.0	88260.370	2.0
993.6438	28.01	.51	121161.810	1.5	131223.020	2.5
993.6458	29.01	-.68	135990.150	3.0	146051.340	2.0
993.6488	28.01	.05	121161.810	1.5	131222.970	1.5
993.6797	10.00	-2.06	162408.653	2.0	172469.500	2.0
993.6797	10.00	-.91	162408.653	2.0	172469.500	3.0
993.7176	26.00	-2.81	37046.000	4.0	47106.463	4.0
993.7209	28.01	.61	118897.940	2.5	128958.370	3.5
993.7278	18.01	-4.59	201608.820	3.5	211669.180	2.5
993.7623	18.00	-2.16	114805.180	2.0	124865.190	2.0
993.7771	18.00	-2.55	114805.180	2.0	124865.040	3.0
993.7772	23.01	-3.30	44657.990	2.0	54717.850	1.0
993.7998	18.01	-1.29	204937.800	4.5	214997.430	4.5
993.8236	28.01	-3.59	121561.060	.5	131620.450	1.5
993.8299	10.00	-3.38	162410.174	3.0	172469.500	2.0
993.8299	10.00	-2.20	162410.174	3.0	172469.500	3.0
993.8299	10.00	-2.08	162410.174	3.0	172469.500	3.0
993.8299	10.00	-.77	162410.174	3.0	172469.500	4.0
993.8621	18.01	-2.93	204937.800	4.5	214996.800	3.5
993.8861	22.00	-4.09	27480.047	3.0	37538.804	2.0
993.8928	29.01	.19	136014.260	2.0	146072.950	2.0
WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
993.8928	29.01	-.79	136014.260	2.0	146072.950	3.0
993.9135	27.00	-3.09	41982.660	1.5	52041.140	.5
993.9145	29.01	.28	136035.640	3.0	146094.110	3.0
993.9145	29.01	-.88	136035.640	3.0	146094.110	4.0
993.9283	22.00	-3.14	35652.950	3.0	45711.280	4.0
993.9412	17.02	-3.24	198983.900	1.5	209042.100	.5
994.0005	10.01	-4.28	313457.570	3.5	323515.170	3.5
994.0568	9.02	-3.39	430012.480	1.5	440069.510	1.5
994.0766	27.00	-1.94	44201.920	2.5	54258.750	2.5
994.0983	24.00	-4.98	31352.420	1.0	41409.030	2.0
994.1349	6.00	-.84	73975.910	0.0	84032.150	1.0
994.1394	22.00	-1.91	17423.853	2.0	27480.047	3.0
994.1468	28.01	-4.72	122790.410	4.5	132846.530	3.5
994.1655	10.01	-4.23	313457.570	3.5	323513.500	3.5
994.1685	28.01	.78	120268.810	3.5	130324.710	4.5
994.1813	7.01	-1.79	211287.230	3.0	221343.000	4.0
994.2001	7.01	-.35	211287.230	3.0	221342.810	3.0
994.2335	14.00	-2.66	50566.397	1.0	60621.640	0.0
994.2357	25.00	-2.06	34938.700	4.5	44993.920	3.5
994.2812	28.01	.40	121178.560	3.5	131233.320	4.5
994.2852	28.01	.23	121178.560	3.5	131233.280	3.5
994.2862	25.02	-3.03	208650.540	3.5	218705.250	2.5
994.2891	18.01	-2.13	201608.820	3.5	211663.500	3.5
994.3180	14.00	-3.29	54257.582	3.0	64311.970	4.0
994.3247	28.01	-4.95	89100.490	3.5	99154.810	4.5
994.3416	29.01	-1.27	136442.050	3.0	146496.200	3.0
994.3574	18.01	-2.21	200393.020	4.5	210447.010	3.5
994.3604	9.02	-4.38	442694.580	1.5	452748.540	2.5
994.3643	10.01	-1.97	302750.810	3.5	312804.730	2.5
994.3732	10.01	-1.37	291801.880	1.5	301855.710	2.5
994.3742	24.00	-4.28	31355.210	2.0	41409.030	2.0
994.3793	26.00	-4.74	50703.912	5.0	60757.680	4.0
994.4066	10.00	-1.22	161636.617	1.0	171690.110	2.0
994.4128	26.00	-2.33	40421.890	4.0	50475.320	4.0
994.4356	10.01	-3.73	313461.970	4.5	323515.170	3.5
994.4494	28.01	-2.46	120144.170	2.5	130197.230	1.5
994.4583	27.00	-3.42	42811.440	3.5	52864.410	4.5
994.4622	28.01	-3.86	118897.940	2.5	128950.870	3.5
994.4642	28.01	1.14	118893.240	6.5	128946.150	7.5
994.4771	28.01	.22	121180.540	4.5	131233.320	4.5
994.4810	28.01	-1.28	121180.540	4.5	131233.280	3.5
994.4840	24.00	-3.40	40982.970	2.0	51035.680	2.0
994.4872	26.00	-3.16	40534.180	3.0	50586.857	3.0
994.4890	10.00	-2.27	161607.261	2.0	171659.920	3.0
994.5087	28.00	-4.64	40484.282	2.0	50536.742	1.0
994.5117	10.00	-3.42	161607.261	2.0	171659.690	2.0
994.5304	18.00	-2.34	114805.180	2.0	124857.420	2.0
994.5364	28.01	-1.52	118914.340	4.5	128966.520	4.5
994.5364	28.01	.61	118914.340	4.5	128966.520	5.5
994.5364	28.01	.28	120272.530	4.5	130324.710	4.5
994.5414	28.01	-.34	120268.810	3.5	130320.940	3.5
994.5453	18.00	-3.08	114805.180	2.0	124857.270	1.0
994.5878	17.00	-3.69	85735.091	1.5	95786.752	2.5
994.5907	26.00	-4.63	43108.899	4.0	53160.530	3.0
994.6007	10.01	-3.45	313461.970	4.5	323513.500	3.5
994.6235	28.01	.40	120270.440	5.5	130321.740	5.5
994.6294	24.00	-1.94	28679.430	1.0	38730.670	2.0
994.6393	27.00	-4.36	44394.470	3.5	54445.610	2.5
994.6472	10.01	-3.97	313461.970	4.5	323513.030	4.5
994.6492	10.01	-3.15	313461.990	5.5	323513.030	4.5
994.6720	18.01	-4.33	204133.980	2.5	214184.790	3.5
994.6732	26.00	-3.67	50703.912	5.0	60754.710	4.0
994.6928	27.00	-4.01	41982.660	1.5	52033.260	1.5
994.7066	7.00	-1.21	94830.860	2.5	104881.320	3.5
994.7234	28.01	.68	118914.340	4.5	128964.630	4.5
994.7393	6.00	-2.19	78148.090	2.0	88198.220	2.0
994.7519	10.00	-2.09	161636.617	1.0	171686.620	1.0
994.7519	10.00	-2.00	161636.617	1.0	171686.620	2.0
994.7999	10.00	-2.23	162419.982	2.0	172469.500	2.0
994.7999	10.00	-.90	162419.982	2.0	172469.500	3.0
994.7999	10.00	-3.38	162419.982	2.0	172469.500	3.0
994.8097	22.00	-4.77	34204.971	4.0	44254.390	3.0
994.8205	17.00	-2.79	91127.030	2.5	101176.340	2.5
994.8304	28.01	-.87	120272.530	4.5	130321.740	5.5
994.8353	22.00	-4.21	38159.710	3.0	48208.870	3.0
994.8372	17.00	-1.49	91127.030	2.5	101176.171	3.5
994.8541	28.01	-1.24	120271.970	2.5	130320.940	3.5
994.9016	24.00	-1.42	28682.180	2.0	38730.670	2.0
994.9016	29.01	-2.05	138130.810	3.0	148179.300	4.0
994.9081	22.00	-1.85	17369.590	1.0	27418.015	2.0
994.9096	28.01	-1.33	120272.530	4.5	130320.940	3.5
994.9125	26.02	-2.86	214010.320	5.0	224058.700	4.0
994.9145	18.01	-.65	163299.470	2.5	173347.830	1.5
994.9353	7.01	-.24	211294.850	4.0	221343.000	4.0
994.9541	7.01	-1.71	211294.850	4.0	221342.810	3.0
994.9680	19.00	-2.08	21026.580	.5	31074.400	1.5
995.0561	14.02	-2.52	230267.700	2.0	240314.630	3.0
995.0710	18.00	-2.34	114821.990	3.0	124868.770	3.0
995.0710	18.00	-1.53	114821.990	3.0	124868.770	4.0
995.0779	25.00	-3.30	45060.810	3.5	55107.520	3.5
995.0796	26.00	-3.51	37046.000	4.0	47092.693	3.0
995.1086	28.01	.49	118914.340	4.5	128960.740	5.5
995.1086	18.01	.18	188766.150	2.5	198812.550	2.5
995.1089	26.00	-2.27	43499.485	4.0	53545.882	3.0
995.1116	28.01	.47	118897.940	2.5	128944.310	2.5
995.1138	14.00	-.89	54257.582	3.0	64303.930	3.0
995.1146	18.01	-3.17	204951.090	3.5	214997.430	4.5
995.1243	22.00	-4.91	8436.618	0.0	18482.860	1.0
995.1253	26.00	-4.83	43108.899	4.0	53155.130	4.0
995.1463	15.00	-2.98	65787.380	3.5	75833.400	2.5
995.1473	14.02	-1.00	230268.620	3.0	240314.630	3.0
995.1740	23.01	-4.18	44098.460	3.0	54144.200	4.0
995.1770	18.01	-1.35	204951.090	3.5	214996.800	3.5
995.1790	6.00	-1.99	78529.620	3.0	88575.310	4.0
995.1873	18.00	-3.92	104102.144	1.0	114147.750	1.0
995.1998	18.01	-1.10	200393.020	4.5	210438.500	4.5
995.2067	18.01	-1.90	190106.230	1.5	200151.640	1.5
995.2185	10.01	-4.20	313480.240	4.5	323525.530	4.5
995.2215	22.00	-.50	27614.667	4.0	37659.927	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
995.2215	28.01	-.75	120268.810	3.5	130314.070	2.5
995.2225	6.00	-2.77	78529.620	3.0	88574.870	3.0
995.2235	27.00	-3.04	42811.440	3.5	52856.680	3.5
995.2245	6.00	-4.59	78529.620	3.0	88574.850	2.0
995.2307	28.00	-3.67	44206.185	3.0	54251.353	3.0
995.2344	29.01	-3.37	128853.300	2.0	138898.430	1.0
995.2414	24.01	-4.26	74273.480	1.5	84318.540	1.5
995.2611	6.00	-3.80	78215.510	3.0	88260.370	2.0
995.2770	24.00	-4.53	31364.330	3.0	41409.030	2.0
995.2800	18.01	.47	186074.350	2.5	196119.020	3.5
995.3008	28.01	-.78	121178.560	3.5	131223.020	2.5
995.3028	26.00	-3.65	48475.740	3.0	58520.180	4.0
995.3256	6.00	-2.51	78148.090	2.0	88192.300	1.0
995.3397	26.00	-2.39	43922.652	3.0	53966.720	2.0
995.3434	28.01	-2.23	118914.340	4.5	128958.370	3.5
995.3493	14.02	.09	230270.660	4.0	240314.630	3.0
995.3662	8.01	-3.22	255812.200	1.5	265856.000	2.5
995.3860	28.01	-.64	120281.110	4.5	130324.710	4.5
995.3880	23.00	-6.78	14949.300	4.5	24992.880	3.5
995.3940	28.01	-3.69	101740.270	3.5	111783.790	3.5
995.4009	23.00	-4.31	20789.130	2.5	30832.580	2.5
995.4138	28.01	.80	118923.200	3.5	128966.520	4.5
995.4138	19.00	-2.41	21026.580	.5	31069.900	.5
995.4257	18.00	-3.47	114821.990	3.0	124865.190	2.0
995.4326	6.00	-3.03	78116.740	1.0	88159.870	0.0
995.4386	28.01	-.38	120270.440	5.5	130313.510	5.5
995.4406	18.00	-2.24	114821.990	3.0	124865.040	3.0
995.4554	8.01	-2.19	255813.100	2.5	265856.000	2.5
995.4614	18.01	.68	196305.040	3.5	206347.880	4.5
995.4921	28.01	-.31	121178.560	3.5	131221.090	3.5
995.5278	27.00	-1.83	41225.760	4.5	51267.930	4.5
995.5347	28.01	-.34	120271.970	2.5	130314.070	2.5
995.5645	28.01	-.29	118897.940	2.5	128939.740	1.5
995.5724	25.00	-4.28	41403.930	2.5	51445.650	1.5
995.5912	26.00	-2.63	36975.640	3.0	47017.170	3.0
995.5982	25.02	-2.59	208935.880	4.5	218977.340	3.5
995.6011	28.01	-3.96	118923.200	3.5	128964.630	4.5
995.6259	18.01	-2.40	204937.800	4.5	214978.980	4.5
995.6306	20.00	-2.77	38219.118	2.0	48260.250	3.0
995.6309	25.00	-3.52	35114.980	2.5	45156.110	2.5
995.6438	28.01	.78	121192.320	3.5	131233.320	4.5
995.6458	28.01	1.01	120272.530	4.5	130313.510	5.5
995.6477	28.01	-1.05	121192.320	3.5	131233.280	3.5
995.6477	7.00	-2.55	93581.520	.5	103622.480	.5
995.6805	28.01	.98	120281.110	4.5	130321.740	5.5
995.6884	28.01	-1.11	121180.540	4.5	131221.090	3.5
995.6943	6.00	-3.86	78293.490	1.0	88333.980	0.0
995.7211	28.01	-.66	120144.170	2.5	130184.390	2.5
995.7261	26.00	-4.05	48231.330	5.0	58271.500	5.0
995.7302	14.00	-4.93	54257.582	3.0	64297.710	4.0
995.7566	20.00	-2.19	38219.118	2.0	48258.980	2.0
995.7598	28.01	-.39	120281.110	4.5	130320.940	3.5
995.7599	22.00	-.59	27498.975	3.0	37538.804	2.0
995.7640	14.00	-1.61	54257.582	3.0	64297.370	3.0
995.7925	28.01	.56	118927.020	4.5	128966.520	4.5
995.7925	28.01	.65	118927.020	4.5	128966.520	5.5
995.8203	18.01	-3.88	145668.800	1.5	155708.020	.5
995.8241	20.00	-2.82	38219.118	2.0	48258.300	1.0
995.8282	28.01	.78	121194.140	2.5	131233.280	3.5
995.8302	17.00	-.98	92194.190	1.5	102233.310	2.5
995.8719	28.01	.16	118874.110	3.5	128912.810	2.5
995.8769	18.00	-2.10	114821.990	3.0	124860.640	4.0
995.9105	26.00	-4.36	43022.969	4.0	53061.280	5.0
995.9175	25.00	-4.88	34250.520	5.5	44288.760	4.5
995.9222	26.00	-2.67	44411.137	1.0	54449.330	1.0
995.9800	28.01	-.98	118927.020	4.5	128964.630	4.5
995.9820	26.02	-1.90	219471.970	4.0	229509.560	3.0
995.9959	29.01	-3.65	118532.150	2.0	128569.600	2.0
995.9999	29.01	-2.03	123556.640	2.0	133594.050	3.0
996.0098	29.01	-.83	136035.640	3.0	146072.950	2.0
996.0098	29.01	-1.68	136035.640	3.0	146072.950	3.0
996.0108	15.01	-2.13	130913.700	3.0	140951.000	3.0
996.0326	29.01	-.99	136014.260	2.0	146051.340	1.0
996.0326	29.01	-4.68	136014.260	2.0	146051.340	2.0
996.0445	29.01	.90	138130.810	3.0	148167.770	4.0
996.0445	29.01	-.48	138130.810	3.0	148167.770	3.0
996.0465	22.00	-3.83	35652.950	3.0	45689.890	3.0
996.0604	13.01	-2.16	139588.700	3.0	149625.500	2.0
996.0604	13.01	-3.59	139588.700	3.0	149625.500	3.0
996.0604	13.01	-2.50	139588.700	4.0	149625.500	3.0
996.0604	13.01	-1.58	139588.700	4.0	149625.500	3.0
996.0604	13.01	-3.46	139588.700	4.0	149625.500	4.0
996.0604	13.01	-3.60	139588.700	4.0	149625.500	4.0
996.0604	13.01	-1.93	139588.700	5.0	149625.500	4.0
996.0644	18.01	-2.81	204937.800	4.5	214974.560	3.5
996.0872	28.01	.06	118914.340	4.5	128950.870	3.5
996.1258	11.00	-2.12	29172.839	2.5	39208.980	2.5
996.1258	11.00	-.82	29172.839	2.5	39208.980	3.5
996.1308	11.00	-.98	29172.889	1.5	39208.980	2.5
996.1676	28.01	-1.30	118877.090	1.5	128912.810	2.5
996.1686	25.00	-2.54	52870.100	3.5	62905.810	2.5
996.1865	7.01	.81	211287.230	3.0	221322.760	4.0
996.1964	18.00	-3.76	114821.990	3.0	124857.420	2.0
996.2093	10.01	-1.31	280768.520	.5	290803.820	.5
996.2222	28.01	.55	118923.200	3.5	128958.370	3.5
996.2351	18.01	-.77	185093.230	4.5	195128.270	4.5
996.2421	10.01	-4.06	313480.200	3.5	323515.170	3.5
996.2461	10.01	-3.49	313480.240	4.5	323515.170	3.5
996.2520	10.01	-1.66	281998.280	2.5	292033.150	2.5
996.2857	27.00	-3.26	44480.140	2.5	54514.670	3.5
996.3036	24.00	-4.23	31009.000	3.0	41043.350	3.0
996.3560	10.00	-1.10	162435.678	1.0	172469.500	2.0
996.3662	28.01	.64	118927.020	4.5	128960.740	5.5
996.4079	10.01	-4.79	313480.200	3.5	323513.500	3.5
996.4118	10.01	-3.62	313480.240	4.5	323513.500	3.5
996.4585	10.01	-4.68	313480.240	4.5	323513.030	4.5
996.4725	22.00	-3.87	8492.421	1.0	18525.070	2.0
996.4973	28.01	-1.88	120281.110	4.5	130313.510	5.5
996.5151	28.01	-3.10	105838.060	3.5	115870.280	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
996.5410	18.01	-.31	196305.040	3.5	206337.000	3.5
996.5420	28.01	1.08	118892.990	5.5	128924.940	6.5
996.5539	18.01	-1.65	196305.040	3.5	206336.870	2.5
996.5668	28.01	-.57	118893.240	6.5	128924.940	6.5
996.5668	28.01	-.97	118893.240	6.5	128924.940	7.5
996.5748	7.00	-2.47	94793.460	1.5	104825.080	2.5
996.6006	28.01	-1.38	120270.440	5.5	130301.800	6.5
996.6016	28.01	-.31	118927.020	4.5	128958.370	3.5
996.6412	28.00	-2.19	44206.185	3.0	54237.136	4.0
996.6563	8.01	-3.16	255897.200	2.5	265928.000	1.5
996.6662	28.01	-1.69	121192.320	3.5	131223.020	2.5
996.6712	10.01	-2.28	281171.380	2.5	291202.030	3.5
996.7049	18.01	.96	185093.230	4.5	195123.540	5.5
996.7248	24.00	-4.05	23512.000	1.0	33542.110	2.0
996.7496	28.01	-.97	120144.170	2.5	130174.030	1.5
996.7637	16.00	-4.55	67824.238	2.0	77853.956	1.0
996.8470	28.01	.13	121194.140	2.5	131223.020	2.5
996.8510	7.00	-2.40	94830.860	2.5	104859.700	1.5
996.8520	28.01	-.99	121194.140	2.5	131222.970	1.5
996.8580	28.01	.06	121192.320	3.5	131221.090	3.5
996.8937	26.02	-4.29	214010.320	5.0	224038.730	5.0
996.9132	14.00	-1.67	49028.294	0.0	59056.508	1.0
996.9335	7.01	.90	211294.850	4.0	221322.860	5.0
996.9435	7.01	-.61	211294.850	4.0	221322.760	4.0
996.9455	18.01	-.77	204951.090	3.5	214978.980	4.5
996.9673	28.01	-1.28	118923.200	3.5	128950.870	3.5
996.9723	10.01	-1.15	302816.980	1.5	312844.600	1.5
997.0349	28.01	.38	118939.530	5.5	128966.520	5.5
997.0349	28.01	-2.74	118939.530	5.5	128966.520	4.5
997.0389	28.01	-1.21	121194.140	2.5	131221.090	3.5
997.0529	8.01	-2.82	245816.290	1.5	255843.100	1.5
997.0588	29.01	-4.17	118532.150	2.0	128558.900	3.0
997.0717	10.01	-1.38	302816.980	1.5	312843.600	.5
997.0737	8.01	-3.82	255829.400	3.5	265856.000	2.5
997.0988	9.00	-.86	116040.883	1.5	126067.230	.5
997.1095	26.00	-4.33	50522.940	6.0	60549.180	5.0
997.1463	27.00	-1.81	42434.230	2.5	52460.100	2.5
997.1693	22.00	-4.11	31489.451	4.0	41515.090	4.0
997.2010	27.00	-4.89	43911.360	1.5	53936.680	2.5
997.2229	28.01	-.12	118939.530	5.5	128964.630	4.5
997.2266	22.00	-4.14	38699.767	2.0	48724.830	1.0
997.2348	18.01	-1.33	189654.780	2.5	199679.760	2.5
997.2753	22.00	-2.58	38699.767	2.0	48724.340	2.0
997.2836	17.00	-2.52	92194.190	1.5	102218.680	2.5
997.3124	7.00	-1.86	106477.800	.5	116502.000	.5
997.3124	7.00	-1.66	106477.800	.5	116502.000	1.5
997.3134	17.00	-2.58	92194.190	1.5	102218.380	1.5
997.3472	28.01	-1.24	118927.020	4.5	128950.870	3.5
997.3493	10.01	-1.82	292451.780	1.5	302475.610	.5
997.3722	8.01	-2.81	265856.000	2.5	275879.600	2.5
997.3722	8.01	-1.71	265856.000	2.5	275879.600	3.5
997.3821	29.01	-3.79	128569.600	2.0	138593.100	1.0
997.3851	18.01	-3.69	204951.090	3.5	214974.560	3.5
997.3911	18.01	-2.83	204951.090	3.5	214974.500	2.5
997.4246	10.00	-2.66	161636.617	1.0	171659.690	2.0
997.4261	26.00	-4.73	43137.472	3.0	53160.530	3.0
997.4288	28.01	-2.72	110021.920	4.5	120044.950	4.5
997.4318	8.01	-4.27	265928.000	1.5	275951.000	1.5
997.5313	9.02	-4.23	442748.850	2.5	452770.850	3.5
997.5373	25.00	-2.78	52883.870	1.5	62905.810	2.5
997.5373	25.00	-1.49	52883.870	2.5	62905.810	2.5
997.5552	26.02	-3.83	189679.070	3.0	199700.830	4.0
997.5672	10.01	-2.89	302750.810	3.5	312772.450	2.5
997.5751	28.01	-4.24	122847.600	3.5	132869.160	3.5
997.5821	18.01	.80	196315.510	2.5	206337.000	3.5
997.5951	18.01	-.35	196315.510	2.5	206336.870	2.5
997.6100	28.01	1.02	118939.530	5.5	128960.740	6.5
997.6100	28.01	.33	118939.530	5.5	128960.740	5.5
997.6110	10.01	-.97	302750.810	3.5	312772.010	3.5
997.6199	28.01	-.25	118923.200	3.5	128944.310	2.5
997.6458	21.00	-.48	25724.720	3.5	35745.570	2.5
997.6598	28.01	-4.47	129988.050	2.5	140008.760	3.5
997.6727	15.00	-.15	56339.540	2.5	66360.120	1.5
997.7823	18.01	.40	195281.380	.5	205300.860	1.5
997.7992	25.00	-3.36	47466.660	1.5	57485.970	2.5
997.8091	18.01	-.59	204977.590	2.5	214996.800	3.5
997.8699	10.01	-2.56	318828.550	2.5	328847.150	3.5
997.8699	10.01	-1.31	318828.550	3.5	328847.150	3.5
997.8798	10.01	-2.64	318828.550	3.5	328847.050	4.5
997.8987	7.01	-.02	211336.160	1.0	221354.470	2.0
997.9306	28.01	-2.03	121115.590	1.5	131133.580	2.5
997.9346	18.01	-.51	191012.350	1.5	201030.300	.5
997.9815	18.00	-3.20	114641.040	2.0	124658.520	2.0
998.0422	7.00	-1.37	94793.460	1.5	104810.330	2.5
998.0624	20.00	-4.16	36731.615	1.0	46748.283	1.0
998.0711	14.02	-.97	230267.700	2.0	240284.280	2.0
998.1588	29.01	-2.98	136035.640	3.0	146051.340	2.0
998.1628	14.02	-.09	230268.620	3.0	240284.280	2.0
998.1767	18.01	-.92	186074.350	2.5	196089.870	2.5
998.1777	24.00	-4.28	31377.960	4.0	41393.470	5.0
998.1817	7.01	-4.56	211336.160	1.0	221351.630	1.0
998.2017	28.01	-1.61	99132.780	5.5	109148.050	4.5
998.2106	25.00	-1.95	52015.000	3.5	62030.180	4.5
998.2415	28.01	-.75	118897.940	2.5	128912.810	2.5
998.2495	27.00	-3.76	43921.890	2.5	53936.680	2.5
998.2605	10.01	-3.13	302750.810	3.5	312765.490	3.5
998.3188	12.00	-2.15	47841.119	0.0	57855.214	1.0
998.3861	25.00	-4.28	56490.790	2.5	66504.210	1.5
998.4180	10.01	-.68	302750.810	3.5	312763.910	4.5
998.4479	10.01	-.52	302831.800	.5	312844.600	1.5
998.5297	10.01	-3.05	302831.170	3.5	312843.150	2.5
998.5476	10.01	-1.65	302831.800	.5	312843.600	.5
998.5726	27.00	-3.73	41041.430	3.5	51052.980	3.5
998.5955	26.02	-4.63	214047.380	4.0	224058.700	4.0
998.6214	28.01	-2.18	108368.050	2.5	118379.110	2.5
998.6474	12.00	-1.67	47844.414	1.0	57855.214	1.0
998.6673	13.01	-1.16	138811.900	2.0	148822.500	2.0
998.6673	13.01	-.43	138811.900	1.0	148822.500	2.0
998.6673	13.01	-.63	138811.900	2.0	148822.500	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
998.6673	13.01	-2.71	138811.900	3.0	148822.500	2.0
998.6673	13.01	-1.53	138811.900	3.0	148822.500	3.0
998.6673	13.01	-.10	138811.900	3.0	148822.500	4.0
998.7262	18.00	-2.21	114641.040	2.0	124651.050	1.0
998.7272	13.01	-.30	139242.900	3.0	149252.900	4.0
998.7272	13.01	-.11	139242.900	3.0	149252.900	4.0
998.7272	13.01	-4.25	139242.900	3.0	149252.900	3.0
998.7322	24.01	-3.79	74484.250	2.5	84494.200	2.5
998.8030	25.00	-3.15	51718.220	1.5	61727.460	2.5
998.8070	28.01	-4.83	122837.330	4.5	132846.530	3.5
998.8180	28.01	-3.31	105861.190	2.5	115870.280	2.5
998.8420	18.01	-2.28	189437.690	.5	199446.540	.5
998.8429	25.00	-4.48	49591.510	1.5	59600.350	2.5
998.9038	18.01	-2.07	172213.800	1.5	182222.030	1.5
998.9358	29.01	-2.72	110084.290	1.0	120092.200	2.0
998.9527	26.00	-3.65	44378.420	1.0	54386.160	1.0
998.9678	26.00	-2.70	47966.571	3.0	57974.160	2.0
999.0336	22.01	-4.85	20951.770	2.5	30958.700	2.5
999.0955	28.01	-1.22	116732.510	2.5	126738.820	1.5
999.1145	26.02	-1.86	219415.610	5.0	229421.730	4.0
999.1944	10.01	-2.50	302839.280	2.5	312844.600	1.5
999.1964	10.01	-1.44	318841.850	3.5	328847.150	3.5
999.2004	10.01	-2.09	318841.890	4.5	328847.150	3.5
999.2064	10.01	-2.92	318841.850	3.5	328847.050	4.5
999.2103	24.00	-2.22	44666.740	1.0	54671.900	1.0
999.2104	10.01	-1.36	318841.890	4.5	328847.050	4.5
999.2303	18.02	-4.72	204563.530	1.0	214568.490	0.0
999.2613	24.01	-2.99	54444.190	3.5	64448.840	2.5
999.2786	22.00	-3.69	32013.534	6.0	42018.010	5.0
999.2872	11.00	-2.79	30266.990	.5	40271.380	.5
999.2982	26.02	-2.07	219566.080	3.0	229570.360	2.0
999.3012	26.02	-2.88	214047.380	4.0	224051.630	3.0
999.3112	18.01	-.87	190106.230	1.5	200110.380	.5
999.3137	26.00	-3.97	44551.325	3.0	54555.450	4.0
999.3210	12.00	-1.45	47851.162	2.0	57855.214	1.0
999.3322	17.00	-1.76	91538.500	1.5	101542.440	1.5
999.3473	22.00	-4.30	31190.631	2.0	41194.420	3.0
999.3628	28.00	-4.95	49185.146	2.0	59188.780	3.0
999.4011	18.01	-.30	195297.610	1.5	205300.860	1.5
999.4081	29.01	-.03	138130.810	3.0	148133.990	3.0
999.4081	29.01	-1.31	138130.810	3.0	148133.990	2.0
999.4431	17.00	-.97	91173.510	1.5	101176.340	2.5
999.4488	22.00	-3.86	31914.277	5.0	41917.050	4.0
999.4661	29.01	-4.59	129116.900	3.0	139119.500	3.0
999.5220	18.01	-1.74	186074.350	2.5	196076.390	1.5
999.5920	18.01	-.48	204996.090	3.5	214997.430	4.5
999.5965	26.00	-3.52	40421.890	4.0	50423.185	4.0
999.6134	20.00	-1.92	38259.124	3.0	48260.250	3.0
999.6430	27.00	-3.78	41041.430	3.5	51042.260	2.5
999.6459	15.01	-4.17	130950.200	2.0	140951.000	3.0
999.6549	18.01	-2.23	204996.090	3.5	214996.800	3.5
999.6819	23.00	-3.22	34065.610	2.5	44066.050	3.5
999.7189	24.00	-4.05	31393.400	5.0	41393.470	5.0
999.7403	20.00	-2.79	38259.124	3.0	48258.980	2.0
999.7639	10.01	-1.17	302843.530	3.5	312843.150	2.5
999.7729	7.00	-.65	94881.790	3.5	104881.320	3.5
999.7963	22.00	-1.51	15108.121	3.0	25107.417	2.0
999.8109	6.00	-3.46	78199.070	2.0	88198.220	2.0
999.8219	10.01	-2.66	302844.110	2.5	312843.150	2.5
999.8289	10.01	-1.27	302844.110	2.5	312843.080	1.5
999.8319	22.00	-3.06	35757.510	4.0	45756.450	5.0
999.8329	28.01	-3.60	122847.600	3.5	132846.530	3.5
999.8459	11.00	-2.49	30272.580	1.5	40271.380	.5
999.9089	18.01	-1.20	209248.550	2.5	219246.720	3.5
999.9229	18.01	.10	209248.550	2.5	219246.580	2.5
999.9590	9.00	-3.87	128697.890	2.5	138695.560	1.5
999.9610	18.01	-1.83	201608.820	3.5	211606.470	3.5
999.9809	28.01	-2.25	120903.200	3.5	130900.650	2.5
999.9929	25.02	-2.46	208819.640	3.5	218816.970	2.5
999.9960	26.00	-2.42	44378.420	1.0	54375.719	2.0
1000.0289	18.01	-3.15	204977.590	2.5	214974.560	3.5
1000.0329	27.00	-2.93	44480.140	2.5	54477.070	3.5
1000.0349	18.01	-1.51	204977.590	2.5	214974.500	2.5
1000.0730	28.01	-4.52	122821.630	5.5	132818.160	4.5
1000.0739	14.00	-3.66	50499.838	2.0	60496.358	2.0
1000.1340	28.01	-4.40	121800.340	1.5	131796.260	2.5
1000.1353	14.00	-1.88	49060.601	1.0	59056.508	1.0
1000.1500	10.01	-1.18	302829.060	4.5	312824.820	3.5
1000.1960	24.00	-2.97	37233.500	5.0	47228.800	5.0
1000.2000	18.01	.23	209251.460	3.5	219246.720	3.5
1000.2140	18.01	-1.20	209251.460	3.5	219246.580	2.5
1000.2201	22.00	-1.98	31373.801	3.0	41368.860	4.0
1000.2220	17.00	-1.76	90193.640	4.5	100188.680	4.5
1000.2230	17.00	-.03	90193.640	4.5	100188.670	5.5
1000.2318	26.00	-2.48	44166.240	3.0	54161.182	3.0
1000.2681	14.02	-.23	230267.700	2.0	240262.280	1.0
1000.2751	17.00	-1.49	91538.500	1.5	101533.010	2.5
1000.2791	17.00	-3.14	91538.500	1.5	101532.970	1.5
1000.2911	8.01	-2.82	245902.850	2.5	255897.200	2.5
1000.3041	7.00	-.81	94830.860	2.5	104825.080	2.5
1000.3099	22.00	-1.18	17423.853	2.0	27418.015	2.0
1000.3341	28.01	-1.63	126738.820	1.5	136732.740	1.5
1000.3562	6.00	-2.17	78340.280	1.0	88333.980	0.0
1000.3572	10.01	-4.25	317781.420	2.5	327775.110	3.5
1000.3592	10.01	-1.13	302831.170	3.5	312824.840	2.5
1000.3612	10.01	-4.38	302831.170	3.5	312824.820	3.5
1000.4022	28.01	-1.74	99154.810	4.5	109148.050	4.5
1000.4032	6.00	-3.17	78199.070	2.0	88192.300	1.0
1000.4773	28.01	-2.15	107082.210	2.5	117074.700	3.5
1000.4933	24.00	-3.35	41043.350	3.0	51035.680	2.0
1000.5565	10.00	-.97	161699.661	2.0	171691.360	3.0
1000.5585	22.00	-1.71	31489.451	4.0	41481.130	5.0
1000.5614	22.00	-3.43	8602.340	2.0	18593.990	3.0
1000.5904	28.01	-2.48	111120.540	1.5	121111.900	.5
1000.6205	25.00	-4.78	35165.050	1.5	45156.110	2.5
1000.6716	29.01	.77	138177.220	2.0	148167.770	3.0
1000.6817	10.00	-1.67	161699.661	2.0	171690.110	2.0
1000.6817	10.00	-2.82	161699.661	2.0	171690.110	3.0
1000.6827	22.00	-4.29	8492.421	1.0	18482.860	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1000.6896	26.00	-2.48	44458.960	0.0	54449.330	1.0
1000.7267	8.01	-2.12	265961.000	2.5	275951.000	1.5
1000.7267	8.01	-3.04	265961.000	2.5	275951.000	2.5
1000.7300	26.00	-4.72	24338.766	3.0	34328.733	3.0
1000.7358	10.00	-2.28	161701.451	3.0	171691.360	3.0
1000.7358	10.00	-.84	161701.451	3.0	171691.360	4.0
1000.7467	28.01	-4.85	68965.650	1.5	78955.450	1.5
1000.7567	18.00	-2.99	114147.750	1.0	124137.450	2.0
1000.7657	28.01	-1.00	118923.200	3.5	128912.810	2.5
1000.7667	28.02	-3.03	121802.800	3.0	131792.400	4.0
1000.7747	10.01	-2.66	318828.550	2.5	328818.070	3.5
1000.7747	10.01	-1.74	318828.550	3.5	328818.070	3.5
1000.7767	10.01	-1.29	318828.550	2.5	328818.050	2.5
1000.7767	10.01	-.66	318828.550	3.5	328818.050	2.5
1000.7898	27.00	-4.45	22475.360	4.5	32464.730	4.5
1000.8068	7.00	-2.34	106477.800	.5	116467.000	.5
1000.8068	7.00	-2.04	106477.800	.5	116467.000	1.5
1000.8138	27.00	-4.38	23184.230	2.5	33173.360	3.5
1000.8208	28.01	-3.31	105838.060	3.5	115827.120	3.5
1000.8499	24.00	-4.04	37233.500	5.0	47222.270	6.0
1000.8579	23.00	-7.36	14910.040	3.5	24898.730	2.5
1000.8610	10.00	-2.82	161701.451	3.0	171690.110	2.0
1000.8610	10.00	-1.52	161701.451	3.0	171690.110	3.0
1000.9521	10.01	-1.24	302816.980	1.5	312804.730	2.5
1000.9551	6.00	-2.64	78148.090	2.0	88135.810	3.0
1000.9681	28.01	-1.39	121115.590	1.5	131103.180	2.5
1000.9792	18.01	-2.06	192556.840	2.5	202544.320	2.5
1001.0007	14.00	-3.40	50499.838	2.0	60487.103	1.0
1001.0213	10.01	-.94	302816.980	1.5	312804.040	1.5
1001.0243	6.00	-3.51	78104.980	0.0	88092.010	1.0
1001.0272	26.00	-4.99	44760.739	1.0	54747.740	1.0
1001.0314	10.00	-2.95	161699.661	2.0	171686.620	1.0
1001.0314	10.00	-3.90	161699.661	2.0	171686.620	2.0
1001.0634	28.01	-3.36	121437.680	5.5	131424.320	5.5
1001.0764	28.01	-1.37	126738.820	1.5	136725.330	.5
1001.0922	22.00	-3.42	31628.668	5.0	41615.020	6.0
1001.1475	17.00	-3.22	91538.500	1.5	101524.300	2.5
1001.1825	22.00	-1.33	17369.590	1.0	27355.042	1.0
1001.1867	28.01	-2.02	118939.530	5.5	128924.940	6.5
1001.1977	8.01	-3.62	265856.000	2.5	275841.300	3.5
1001.2087	28.01	-3.30	120002.860	3.5	129988.050	2.5
1001.2097	26.00	-4.57	40894.972	2.0	50880.152	1.0
1001.2108	10.00	-2.76	161701.451	3.0	171686.620	2.0
1001.2649	24.00	-4.87	37244.170	4.0	47228.800	5.0
1001.2659	18.01	-.70	201608.820	3.5	211593.440	4.5
1001.2769	9.02	-2.25	430374.750	2.5	440359.260	3.5
1001.3080	18.01	.05	209337.870	4.5	219322.070	4.5
1001.3120	18.01	1.03	209337.870	4.5	219322.030	5.5
1001.3291	24.00	-4.86	37205.880	3.0	47189.870	4.0
1001.3421	18.01	.77	209338.210	3.5	219322.070	4.5
1001.3865	14.00	-2.95	51612.012	0.0	61595.430	1.0
1001.4023	9.00	-4.39	128712.300	1.5	138695.560	1.5
1001.4033	8.01	-.42	248425.350	.5	258408.600	.5
1001.4204	20.02	-3.71	336749.110	1.0	346732.190	1.0
1001.4394	18.01	-2.78	204996.090	3.5	214978.980	4.5
1001.4404	24.00	-4.62	36895.730	3.0	46878.610	3.0
1001.4575	6.00	-2.52	78215.510	3.0	88198.220	2.0
1001.4585	13.01	-.38	139286.800	2.0	149269.500	3.0
1001.4645	27.00	-2.45	46562.870	1.5	56545.510	2.5
1001.4695	10.01	-1.35	302829.060	4.5	312811.650	3.5
1001.4695	10.01	-.38	302829.060	4.5	312811.650	4.5
1001.4785	27.00	-4.44	42988.120	3.5	52970.620	2.5
1001.5367	25.00	-3.79	53101.320	.5	63083.240	1.5
1001.5638	10.01	.97	302829.060	4.5	312810.710	5.5
1001.5678	10.01	.09	302829.060	4.5	312810.670	4.5
1001.5939	29.01	-1.87	136442.050	3.0	146423.400	4.0
1001.5979	10.01	-1.37	302843.530	3.5	312824.840	2.5
1001.5999	10.01	.14	302843.530	3.5	312824.820	3.5
1001.6350	28.01	-4.47	110021.920	4.5	120002.860	3.5
1001.6461	28.01	-3.36	122837.330	4.5	132818.160	4.5
1001.6561	10.01	.05	302844.110	2.5	312824.840	2.5
1001.6581	10.01	-.78	302844.110	2.5	312824.820	3.5
1001.6812	10.01	.12	302831.170	3.5	312811.650	3.5
1001.6812	10.01	.44	302831.170	3.5	312811.650	4.5
1001.6913	28.01	-2.37	100592.980	3.5	110573.360	2.5
1001.7244	25.00	-2.97	53103.190	1.5	63083.240	1.5
1001.7394	13.01	-1.68	139588.700	4.0	149568.600	3.0
1001.7394	13.01	-2.46	139588.700	4.0	149568.600	3.0
1001.7394	13.01	-3.47	139588.700	3.0	149568.600	3.0
1001.7435	10.01	-1.54	291968.140	.5	301948.000	1.5
1001.7668	17.00	-1.07	85917.937	.5	95897.565	1.5
1001.7676	18.01	-.10	209337.870	4.5	219317.490	4.5
1001.7696	18.01	-1.41	209337.870	4.5	219317.470	3.5
1001.7705	24.00	-4.84	45225.200	2.0	55204.790	3.0
1001.7796	10.01	.67	302831.170	3.5	312810.670	4.5
1001.7826	7.00	-1.70	94830.860	2.5	104810.330	2.5
1001.7836	24.00	-2.56	44666.740	1.0	54646.200	0.0
1001.8007	6.00	-3.57	78116.740	1.0	88096.030	2.0
1001.8017	18.01	.46	209338.210	3.5	219317.490	4.5
1001.8037	18.01	.13	209338.210	3.5	219317.470	3.5
1001.8488	16.00	-1.47	67876.685	4.0	77855.496	3.0
1001.8829	18.01	-1.39	204996.090	3.5	214974.560	3.5
1001.8890	18.01	-2.91	204996.090	3.5	214974.500	2.5
1001.9030	7.01	-3.85	211402.030	4.0	221380.300	3.0
1001.9157	26.00	-4.70	27543.000	1.0	37521.144	2.0
1001.9161	17.00	-1.50	91564.300	.5	101542.440	1.5
1001.9312	27.00	-1.13	41225.760	4.5	51203.750	5.5
1001.9729	26.00	-2.52	44183.607	2.0	54161.182	3.0
1001.9944	25.00	-2.42	45130.160	4.5	55107.520	3.5
1002.0015	18.01	-2.96	201608.820	3.5	211586.110	2.5
1002.0070	14.00	-3.81	47351.554	2.0	57328.789	1.0
1002.0527	25.00	-3.90	49591.510	1.5	59568.290	.5
1002.1090	10.01	-2.10	318841.850	3.5	328818.070	3.5
1002.1110	17.00	-2.32	90193.640	4.5	100169.840	3.5
1002.1110	10.01	-.78	318841.850	3.5	328818.050	2.5
1002.1130	10.01	-.77	318841.890	4.5	328818.070	3.5
1002.1682	27.00	-1.44	42796.670	1.5	52772.300	2.5
1002.2044	6.00	-3.64	78116.740	1.0	88092.010	1.0
1002.2285	18.01	.32	186340.480	1.5	196315.510	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1002.2486	27.00	-2.62	44183.340	4.5	54158.170	4.5
1002.3049	29.01	.31	136133.060	4.0	146107.330	4.0
1002.3049	29.01	-.35	136133.060	4.0	146107.330	5.0
1002.3229	10.01	-.38	292451.780	1.5	302425.870	1.5
1002.3270	7.01	1.13	211389.950	5.0	221364.000	6.0
1002.3290	7.01	-.69	211389.950	5.0	221363.980	5.0
1002.3501	27.00	-3.19	41225.760	4.5	51199.580	3.5
1002.3672	29.01	-1.67	136442.050	3.0	146415.700	2.0
1002.4005	26.00	-4.17	50703.912	5.0	60677.230	5.0
1002.4355	55.00	.31	14499.257	0.0	24474.961	0.0
1002.4750	17.00	-2.17	90193.640	4.5	100166.217	3.5
1002.5089	10.01	-.53	302831.800	.5	312804.040	1.5
1002.5159	21.00	-2.30	15041.980	3.5	25014.150	2.5
1002.5246	26.00	-2.86	44285.436	2.0	54257.520	2.0
1002.5284	12.00	-2.85	49346.729	1.0	59318.775	2.0
1002.5333	17.00	-.90	90193.640	4.5	100165.638	4.5
1002.5794	14.00	-1.15	49060.601	1.0	59032.140	2.0
1002.6165	26.00	-3.18	37046.000	4.0	47017.170	3.0
1002.6667	10.01	-.24	282680.650	.5	292651.320	1.5
1002.6778	28.01	-4.35	122847.600	3.5	132818.160	4.5
1002.6930	22.00	-5.12	8492.421	1.0	18462.830	0.0
1002.6979	29.01	.95	136133.060	4.0	146103.420	5.0
1002.7512	7.01	-.19	211410.470	3.0	221380.300	3.0
1002.7623	7.01	-.22	211103.630	3.0	221073.350	4.0
1002.8679	17.00	-1.44	91564.300	.5	101532.970	1.5
1002.8701	16.00	-2.91	67886.847	2.0	77855.496	3.0
1002.9233	10.01	-.73	302843.530	3.5	312811.650	3.5
1002.9233	10.01	.70	302843.530	3.5	312811.650	4.5
1002.9648	16.00	-2.55	67884.577	1.0	77852.284	2.0
1002.9675	18.00	-2.40	112750.220	4.0	122717.900	3.0
1002.9675	18.00	-.86	112750.220	4.0	122717.900	4.0
1002.9816	10.01	.72	302844.110	2.5	312811.650	3.5
1003.0218	10.01	.34	302843.530	3.5	312810.670	4.5
1003.0780	16.00	-2.42	67883.208	0.0	77849.790	1.0
1003.0925	16.00	-2.06	67889.058	3.0	77855.496	3.0
1003.1016	26.00	-4.09	40894.972	2.0	50861.320	2.0
1003.1366	8.01	-1.17	265985.000	3.5	275951.000	2.5
1003.1436	28.01	-3.99	105861.190	2.5	115827.120	3.5
1003.1477	27.00	-4.23	15774.040	1.5	25739.930	2.5
1003.1497	29.01	-2.74	128853.300	2.0	138819.170	3.0
1003.1779	7.01	-.97	211103.630	3.0	221069.220	3.0
1003.1900	27.00	-4.83	44480.140	2.5	54445.610	2.5
1003.1920	10.01	-1.49	302839.280	2.5	312804.730	2.5
1003.1933	16.00	-1.96	67886.847	2.0	77852.284	2.0
1003.2158	16.00	-2.07	67884.577	1.0	77849.790	1.0
1003.2232	7.01	-1.75	211415.160	2.0	221380.300	3.0
1003.2615	10.01	-2.40	302839.280	2.5	312804.040	1.5
1003.2794	26.00	-2.47	44411.137	1.0	54375.719	2.0
1003.2822	28.00	-4.05	47139.392	2.0	57103.946	3.0
1003.3349	27.00	-2.45	42811.440	3.5	52775.470	4.5
1003.3391	10.00	-3.20	162517.872	1.0	172481.860	1.0
1003.3500	28.01	-2.45	121111.900	.5	131075.780	1.5
1003.4159	16.00	-1.76	67889.058	3.0	77852.284	2.0
1003.4185	22.01	-3.99	52631.070	3.5	62594.270	4.5
1003.4185	7.00	-2.72	106477.800	.5	116441.000	.5
1003.4185	7.00	-3.03	106477.800	.5	116441.000	1.5
1003.4386	8.01	-1.15	265988.000	2.5	275951.000	1.5
1003.4386	8.01	-2.30	265988.000	2.5	275951.000	2.5
1003.4444	16.00	-2.18	67886.847	2.0	77849.790	1.0
1003.4480	22.00	-2.07	11776.806	4.0	21739.713	5.0
1003.5243	25.02	-3.80	208743.100	2.5	218705.250	2.5
1003.5414	27.00	-4.07	44394.470	3.5	54356.450	4.5
1003.5444	7.01	1.04	211402.030	4.0	221363.980	5.0
1003.5807	18.01	-3.27	195281.380	.5	205242.970	.5
1003.5888	24.00	-4.71	38597.060	1.0	48558.570	2.0
1003.5898	29.01	-1.17	139241.600	1.0	149203.100	0.0
1003.6009	18.01	-2.33	151087.250	2.5	161048.640	1.5
1003.6351	29.01	-.79	136133.060	4.0	146094.110	4.0
1003.6351	29.01	-.75	136133.060	4.0	146094.110	3.0
1003.6653	38.01	-1.31	14555.900	0.0	24519.381	0.0
1003.6775	15.00	-1.90	68088.270	1.5	78048.900	.5
1003.7148	10.00	-4.99	161699.661	2.0	171659.920	3.0
1003.7197	18.01	-1.79	204951.090	3.5	214911.300	2.5
1003.7218	28.01	-1.86	121115.590	1.5	131075.780	1.5
1003.7328	7.01	-.06	211336.160	1.0	221296.240	2.0
1003.7379	10.00	-3.91	161699.661	2.0	171659.690	2.0
1003.7379	10.00	-2.71	161699.661	2.0	171659.690	3.0
1003.7479	28.00	-3.09	49032.589	2.0	58992.520	2.0
1003.7499	9.02	-3.37	380250.520	2.5	390210.430	3.5
1003.7905	22.00	-4.07	38764.832	3.0	48724.340	2.0
1003.8043	9.00	-.83	115917.909	2.5	125877.280	1.5
1003.8054	16.00	-2.40	70163.700	1.0	80123.060	0.0
1003.8185	29.01	-.65	138220.070	4.0	148179.300	4.0
1003.8185	29.01	1.01	138220.070	4.0	148179.300	5.0
1003.8649	22.00	-4.55	17540.205	3.0	27498.975	3.0
1003.8952	10.00	-3.75	161701.451	3.0	171659.920	3.0
1003.8952	10.00	-2.58	161701.451	3.0	171659.920	4.0
1003.9184	10.00	-4.01	161701.451	3.0	171659.690	3.0
1003.9223	7.00	-2.66	106477.800	.5	116436.000	1.5
1003.9485	28.00	-3.08	48671.900	3.0	58629.840	2.0
1003.9549	10.00	-3.91	162899.113	2.0	172856.990	1.0
1003.9596	27.00	-4.16	44394.470	3.5	54352.300	3.5
1003.9708	18.00	-2.15	112750.220	4.0	122707.940	3.0
1003.9778	28.00	-3.81	48671.900	3.0	58629.550	3.0
1003.9979	10.00	-2.51	162517.872	1.0	172475.323	2.0
1004.0232	15.01	-4.41	130993.800	3.0	140951.000	3.0
1004.0665	29.01	-.19	138177.220	2.0	148133.990	2.0
1004.0665	29.01	-1.20	138177.220	2.0	148133.990	3.0
1004.1069	24.00	-4.02	37233.500	5.0	47189.870	4.0
1004.1411	26.00	-2.37	40421.890	4.0	50377.920	5.0
1004.1734	16.00	-2.52	70163.700	1.0	80119.410	1.0
1004.1966	18.01	-.73	190196.160	.5	200151.640	1.5
1004.1976	10.01	-.88	302816.980	1.5	312772.450	2.5
1004.3285	16.00	-2.05	70165.237	2.0	80119.410	1.0
1004.3379	26.00	-3.58	43321.120	6.0	53275.200	7.0
1004.3429	10.01	-2.42	302890.570	2.5	312844.600	1.5
1004.3691	22.00	-3.86	35757.510	4.0	45711.280	4.0
1004.3853	9.02	-.66	431432.270	1.5	441385.880	1.5
1004.3964	24.00	-3.87	45255.510	3.0	55209.010	4.0
1004.4085	7.01	-3.02	211103.630	3.0	221057.010	2.0
1004.4417	7.01	-1.59	211389.950	5.0	221343.000	4.0
1004.4730	6.00	-4.36	78307.630	2.0	88260.370	2.0
1004.4923	25.00	-3.05	35041.370	3.5	44993.920	3.5
1004.4973	10.01	-3.18	303527.740	4.5	313480.240	4.5
1004.5013	10.01	-4.12	303527.740	4.5	313480.200	3.5
1004.5074	28.01	-3.85	116786.420	.5	126738.820	1.5
1004.5154	18.01	.65	195297.610	1.5	205249.930	2.5
1004.5235	27.00	-2.36	42811.440	3.5	52763.680	3.5
1004.5478	8.01	-1.75	265999.000	3.5	275951.000	2.5
1004.5528	28.01	-1.29	121111.900	.5	131063.850	.5
1004.5770	10.01	-1.78	303528.530	3.5	313480.240	4.5
1004.5811	10.01	-2.60	303528.530	3.5	313480.200	3.5
1004.6427	27.00	-3.56	21920.090	4.5	31871.150	3.5
1004.6558	24.00	-4.68	52720.070	4.0	62671.000	4.0
1004.6619	7.01	-.81	211103.630	3.0	221054.500	3.0
1004.7194	15.00	-.43	68183.200	1.5	78133.500	2.5
1004.7739	26.02	-3.22	219471.970	4.0	229421.730	4.0
1004.7831	6.00	-1.51	75253.970	1.0	85203.640	2.0
1004.7841	9.01	-4.99	254541.350	5.0	264491.010	5.0
1004.7901	9.01	-4.70	254541.410	4.0	264491.010	3.0
1004.7901	9.01	-2.87	254541.410	4.0	264491.010	4.0
1004.7901	9.01	-1.53	254541.410	4.0	264491.010	5.0
1004.7911	9.01	-1.35	254541.350	5.0	264490.940	4.0
1004.7911	9.01	.06	254541.350	5.0	264490.940	5.0
1004.7911	9.01	1.13	254541.350	5.0	264490.940	6.0
1004.7942	9.01	-2.14	254541.450	2.0	264491.010	3.0
1004.7952	9.01	-2.91	254541.460	3.0	264491.010	3.0
1004.7952	9.01	-1.71	254541.460	3.0	264491.010	4.0
1004.7972	9.01	-1.08	254541.410	4.0	264490.940	3.0
1004.7972	9.01	.22	254541.410	4.0	264490.940	4.0
1004.7972	9.01	1.01	254541.410	4.0	264490.940	5.0
1004.8012	9.01	.05	254541.450	2.0	264490.940	2.0
1004.8012	9.01	.74	254541.450	2.0	264490.940	3.0
1004.8023	9.01	-1.13	254541.460	3.0	264490.940	2.0
1004.8023	9.01	.21	254541.460	3.0	264490.940	3.0
1004.8023	9.01	.88	254541.460	3.0	264490.940	4.0
1004.8102	15.00	-2.07	68183.200	1.5	78132.600	.5
1004.8102	9.01	.60	254541.540	1.0	264490.940	2.0
1004.8224	24.00	-3.94	45255.510	3.0	55204.790	3.0
1004.8446	10.01	-3.45	303508.480	1.5	313457.540	2.5
1004.8610	28.00	-4.74	34163.294	2.0	44112.192	1.0
1004.8635	26.00	-2.77	44183.607	2.0	54132.480	1.0
1004.8818	22.00	-2.18	11639.804	3.0	21588.496	4.0
1004.8992	27.00	-1.65	41225.760	4.5	51174.280	5.5
1004.9001	18.01	-1.45	201720.670	1.5	211669.180	2.5
1004.9082	16.00	-3.69	70163.700	1.0	80112.130	2.0
1004.9143	6.00	-1.03	75255.270	2.0	85203.640	2.0
1004.9254	28.01	-3.05	121115.590	1.5	131063.850	.5
1004.9466	10.01	-1.56	303509.520	2.5	313457.570	3.5
1004.9497	10.01	-2.27	303509.520	2.5	313457.540	2.5
1004.9547	24.01	-4.59	55081.700	1.5	65029.670	.5
1004.9577	6.00	-3.71	78148.090	2.0	88096.030	2.0
1004.9624	26.00	-3.31	36940.600	2.0	46888.494	2.0
1004.9759	28.01	-1.51	121476.560	6.5	131424.320	5.5
1004.9810	22.00	-4.68	38159.710	3.0	48107.420	2.0
1004.9820	29.01	.08	138220.070	4.0	148167.770	4.0
1004.9820	29.01	-1.47	138220.070	4.0	148167.770	3.0
1005.0636	16.00	-2.51	70165.237	2.0	80112.130	2.0
1005.0911	28.01	-3.07	127331.600	2.5	137278.220	1.5
1005.1032	27.00	-3.80	44480.140	2.5	54426.640	1.5
1005.1134	29.01	.36	136160.930	5.0	146107.330	5.0
1005.1134	29.01	-1.39	136160.930	5.0	146107.330	4.0
1005.1336	27.00	-1.22	44568.470	2.5	54514.670	3.5
1005.1366	22.00	-3.56	36298.430	1.0	46244.600	2.0
1005.1538	8.01	-2.72	265665.000	2.5	275611.000	1.5
1005.1548	20.02	-2.71	331403.200	1.0	341349.190	1.0
1005.1841	24.00	-3.01	37244.170	4.0	47189.870	4.0
1005.2063	18.00	-1.55	112750.220	4.0	122695.700	4.0
1005.2063	18.00	.08	112750.220	4.0	122695.700	5.0
1005.2184	18.01	-2.56	195297.610	1.5	205242.970	.5
1005.2670	9.01	-2.03	254546.130	4.0	264491.010	3.0
1005.2670	9.01	-.23	254546.130	4.0	264491.010	4.0
1005.2670	9.01	1.06	254546.130	4.0	264491.010	5.0
1005.2740	9.01	-3.64	254546.130	4.0	264490.940	3.0
1005.2740	9.01	-2.36	254546.130	4.0	264490.940	4.0
1005.2740	9.01	-1.58	254546.130	4.0	264490.940	5.0
1005.2852	15.00	-4.34	70391.600	2.5	80336.300	2.5
1005.2872	9.01	-.23	254546.330	3.0	264491.010	3.0
1005.2872	9.01	.94	254546.330	3.0	264491.010	4.0
1005.2943	9.01	-3.73	254546.330	3.0	264490.940	2.0
1005.2943	9.01	-2.42	254546.330	3.0	264490.940	3.0
1005.2943	9.01	-1.78	254546.330	3.0	264490.940	4.0
1005.3034	9.01	.82	254546.490	2.0	264491.010	3.0
1005.3104	9.01	-2.87	254546.490	2.0	264490.940	2.0
1005.3104	9.01	-2.24	254546.490	2.0	264490.940	3.0
1005.3175	27.00	-1.16	41225.760	4.5	51170.140	4.5
1005.4004	28.01	-3.77	102742.740	1.5	112686.300	2.5
1005.4085	26.02	-3.41	219566.080	3.0	229509.560	3.0
1005.4206	24.00	-2.08	44875.190	2.0	54818.550	2.0
1005.4277	7.00	-1.64	94881.790	3.5	104825.080	2.5
1005.4338	20.02	-.53	336749.110	1.0	346692.340	0.0
1005.4530	28.01	-4.73	106369.300	1.5	116312.340	1.5
1005.4571	8.01	-2.63	255913.000	1.5	265856.000	2.5
1005.4611	24.00	-4.71	31028.330	2.0	40971.290	2.0
1005.4651	27.00	-4.47	23207.760	1.5	33150.680	1.5
1005.5015	23.00	-3.06	33976.020	1.5	43918.580	2.5
1005.5086	29.01	1.07	136160.930	5.0	146103.420	6.0
1005.5086	29.01	-.77	136160.930	5.0	146103.420	5.0
1005.5460	6.00	-3.30	78318.250	3.0	88260.370	2.0
1005.5855	28.01	-3.05	121180.550	5.5	131122.280	5.5
1005.5986	17.00	-.55	90948.530	1.5	100890.130	2.5
1005.6452	27.00	-4.32	43847.980	3.5	53789.120	3.5
1005.6624	7.01	-2.15	211402.030	4.0	221343.000	4.0
1005.6796	27.00	-1.94	43847.980	3.5	53788.780	4.5
1005.6816	7.01	-1.76	211402.030	4.0	221342.810	3.0
1005.7018	10.01	-1.11	302902.570	1.5	312843.150	2.5
1005.7089	10.01	-.18	302902.570	1.5	312843.080	1.5
1005.7352	8.01	-4.06	245902.850	2.5	255843.100	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1005.7583	26.00	-1.93	40594.413	4.0	50534.435	3.0
1005.7666	21.00	-2.43	14926.240	2.5	24866.180	1.5
1005.7716	29.01	-1.75	136133.060	4.0	146072.950	3.0
1005.7765	22.00	-.94	17540.205	3.0	27480.047	3.0
1005.8111	10.01	-0.00	302903.650	2.5	312843.150	2.5
1005.8182	10.01	-1.16	302903.650	2.5	312843.080	1.5
1005.8496	16.00	-1.77	70173.010	3.0	80112.130	2.0
1005.9528	22.01	-3.80	52471.480	2.5	62409.580	3.5
1005.9898	22.00	-2.31	11531.760	2.0	21469.494	3.0
1006.0633	22.00	-3.16	27887.740	3.0	37824.748	4.0
1006.0895	24.00	-4.38	31352.420	1.0	41289.170	1.0
1006.0905	6.00	-4.64	78199.070	2.0	88135.810	3.0
1006.1269	25.00	-4.06	49591.510	1.5	59527.890	1.5
1006.1276	28.00	-1.58	44314.980	4.0	54251.353	3.0
1006.1674	23.00	-6.70	10892.500	3.5	20828.480	2.5
1006.1806	25.00	-4.57	49591.510	1.5	59527.360	.5
1006.2688	6.00	-2.00	75253.970	1.0	85188.950	1.0
1006.3052	28.01	-3.56	121190.340	4.5	131124.960	3.5
1006.3426	10.01	-1.66	303527.740	4.5	313461.990	5.5
1006.3446	10.01	-2.51	303527.740	4.5	313461.970	4.5
1006.3720	24.00	-4.54	31355.210	2.0	41289.170	1.0
1006.3973	18.01	-2.39	204977.590	2.5	214911.300	2.5
1006.4004	6.00	-1.31	75255.270	2.0	85188.950	1.0
1006.4234	9.00	-.64	118405.267	.5	128338.720	.5
1006.4247	10.01	-3.48	303528.530	3.5	313461.970	4.5
1006.4511	29.01	-.80	136160.930	5.0	146094.110	4.0
1006.4521	10.01	-2.03	302839.280	2.5	312772.450	2.5
1006.4693	15.00	-2.79	70689.400	3.5	80622.400	2.5
1006.4780	28.00	-4.69	49185.146	2.0	59118.060	2.0
1006.4784	7.01	-.05	211389.950	5.0	221322.860	5.0
1006.4865	6.00	-1.74	75256.120	0.0	85188.950	1.0
1006.4886	7.01	-1.78	211389.950	5.0	221322.760	4.0
1006.4967	10.01	-1.21	302839.280	2.5	312772.010	3.5
1006.4991	26.00	-.50	38995.717	1.0	48928.423	2.0
1006.5169	7.01	.85	211410.470	3.0	221343.000	4.0
1006.5362	7.01	-.59	211410.470	3.0	221342.810	3.0
1006.5767	28.01	-1.27	121190.340	4.5	131122.280	5.5
1006.5838	23.00	-5.87	11100.650	4.5	21032.520	3.5
1006.6010	26.01	-3.95	54902.420	1.5	64834.120	1.5
1006.6528	22.00	-1.79	17423.853	2.0	27355.042	1.0
1006.6659	24.00	-4.55	37883.340	2.0	47814.400	3.0
1006.7773	14.00	-3.08	50566.397	1.0	60496.358	2.0
1006.7906	10.01	-3.76	303527.740	4.5	313457.570	3.5
1006.8241	24.00	-4.24	44875.190	2.0	54804.690	1.0
1006.8329	14.00	-1.14	49188.617	2.0	59118.030	3.0
1006.8839	10.01	-1.03	292546.700	.5	302475.610	.5
1006.8972	18.00	-3.87	108722.668	0.0	118651.447	1.0
1006.9214	7.00	-2.48	94881.790	3.5	104810.330	2.5
1006.9234	23.00	-9.45	14910.040	3.5	24838.560	3.5
1006.9701	23.01	-2.87	30267.460	2.0	40195.520	3.0
1007.0105	22.00	-4.65	31628.668	5.0	41556.330	5.0
1007.0117	7.01	.72	211415.160	2.0	221342.810	3.0
1007.0269	26.01	-4.26	54904.500	3.5	64832.000	4.5
1007.0573	26.00	-3.64	44458.960	0.0	54386.160	1.0
1007.1365	24.00	-2.89	35807.900	2.0	45734.320	2.0
1007.1578	10.01	-2.36	302839.280	2.5	312765.490	3.5
1007.1628	25.02	-2.28	208743.100	2.5	218669.260	1.5
1007.1791	18.01	-.85	190106.230	1.5	200032.230	1.5
1007.2024	18.01	-.02	203007.690	1.5	212933.460	2.5
1007.2072	22.00	-4.09	35559.627	5.0	45485.350	5.0
1007.2095	29.01	-2.94	138220.070	4.0	148145.770	5.0
1007.2501	15.01	-4.24	131025.700	4.0	140951.000	3.0
1007.2866	28.01	-2.17	121190.340	4.5	131115.280	4.5
1007.3181	18.01	-.90	203007.690	1.5	212932.320	1.5
1007.3272	26.02	-2.61	189679.070	3.0	199603.610	4.0
1007.3962	18.01	-1.17	195297.610	1.5	205221.470	1.5
1007.4174	9.00	-1.51	116143.579	.5	126067.230	.5
1007.4907	24.00	-2.76	45286.080	4.0	55209.010	4.0
1007.5110	22.00	-3.93	8602.340	2.0	18525.070	2.0
1007.5577	10.01	.56	302902.570	1.5	312824.840	2.5
1007.5597	8.01	-3.43	240328.750	.5	250251.000	.5
1007.5597	8.01	-3.91	240328.750	.5	250251.000	1.5
1007.5693	28.00	-1.12	44314.980	4.0	54237.136	4.0
1007.5770	28.01	-1.09	115081.360	4.5	125003.440	5.5
1007.6674	10.01	-.61	302903.650	2.5	312824.840	2.5
1007.6694	10.01	.71	302903.650	2.5	312824.820	3.5
1007.6826	18.01	-2.27	202155.860	2.5	212076.900	2.5
1007.6969	13.01	-.05	95546.800	3.0	105467.700	2.0
1007.7040	7.01	-.89	211402.030	4.0	221322.860	5.0
1007.7141	7.01	-.18	211402.030	4.0	221322.760	4.0
1007.7166	14.00	-4.75	50566.397	1.0	60487.103	1.0
1007.7192	26.00	-4.27	24118.815	4.0	34039.495	4.0
1007.7283	24.00	-3.52	35813.730	3.0	45734.320	2.0
1007.7528	10.01	.58	303824.230	3.5	313744.580	4.5
1007.7578	6.00	-3.72	78215.510	3.0	88135.810	3.0
1007.7578	10.01	-.96	303824.230	3.5	313744.530	3.5
1007.7791	6.00	-1.77	78340.280	1.0	88260.370	2.0
1007.8035	10.01	.47	303824.680	2.5	313744.530	3.5
1007.8065	24.00	-3.96	37205.880	3.0	47125.700	3.0
1007.8085	13.01	-.79	95547.900	2.0	105467.700	2.0
1007.8150	22.00	-3.86	27740.190	2.0	37659.927	3.0
1007.8187	13.01	-.51	138811.900	2.0	148731.600	3.0
1007.8187	13.01	-1.41	138811.900	3.0	148731.600	3.0
1007.8675	27.00	-1.99	21780.470	5.5	31699.690	4.5
1007.9000	8.01	-1.35	255843.100	1.5	265762.000	1.5
1007.9000	13.01	-1.97	95548.800	1.0	105467.700	2.0
1007.9193	24.00	-3.69	45286.080	4.0	55204.790	3.0
1007.9620	23.00	-4.95	20202.490	2.5	30120.780	2.5
1007.9630	18.01	-.79	205056.220	1.5	214974.500	2.5
1008.0189	18.01	-3.90	205079.070	2.5	214996.800	3.5
1008.0291	24.00	-1.60	28679.430	1.0	38597.060	1.0
1008.0362	27.00	-3.58	43425.710	2.5	53343.270	1.5
1008.0362	15.00	-1.93	67971.140	.5	77888.700	1.5
1008.0454	29.01	.91	138261.830	3.0	148179.300	4.0
1008.0637	17.00	-2.32	90948.530	1.5	100865.820	2.5
1008.0657	28.01	-1.87	94729.250	2.5	104646.520	3.5
1008.1105	17.00	-1.87	90948.530	1.5	100865.360	1.5
1008.1403	26.00	-4.83	19552.474	1.0	29469.010	2.0
1008.1675	28.00	-2.92	48671.900	3.0	58588.168	3.0
1008.1714	26.02	-3.67	189679.070	3.0	199595.300	3.0
1008.2009	18.01	-.96	202155.860	2.5	212071.800	3.5
1008.2090	20.02	-.92	360388.680	3.0	370304.540	2.0
1008.2314	6.00	-1.61	75253.970	1.0	85169.610	0.0
1008.2707	28.00	-1.29	44336.100	4.0	54251.353	3.0
1008.2751	18.01	-2.47	204996.090	3.5	214911.300	2.5
1008.3087	24.00	-2.06	28682.180	2.0	38597.060	1.0
1008.3117	10.01	-2.23	292033.150	2.5	301948.000	1.5
1008.3158	26.02	-3.08	219655.550	2.0	229570.360	2.0
1008.3758	18.01	-.49	190196.160	.5	200110.380	.5
1008.3819	10.01	-1.79	302890.570	2.5	312804.730	2.5
1008.3921	6.00	-4.50	78731.270	1.0	88645.330	1.0
1008.3921	6.00	-3.82	78731.270	1.0	88645.330	2.0
1008.4063	29.01	-1.46	138220.070	4.0	148133.990	3.0
1008.4165	15.00	.13	58174.450	1.5	68088.270	1.5
1008.4358	6.00	-4.72	79318.780	1.0	89232.410	1.0
1008.4505	26.00	-3.36	36975.640	3.0	46889.126	4.0
1008.4521	10.01	-2.47	302890.570	2.5	312804.040	1.5
1008.4806	6.00	-4.91	78148.090	2.0	88061.280	1.0
1008.4826	24.00	-4.28	38911.330	3.0	48824.500	4.0
1008.5148	26.00	-2.38	36975.640	3.0	46888.494	2.0
1008.5253	28.01	-4.88	121180.550	5.5	131093.300	4.5
1008.5609	13.01	-.50	139286.800	2.0	149199.200	3.0
1008.5721	7.01	-4.06	211410.470	3.0	221322.760	4.0
1008.6230	24.00	-4.17	23512.000	1.0	33423.790	1.0
1008.6260	26.00	-3.90	23783.617	5.0	33695.378	5.0
1008.6729	24.00	-3.72	35807.900	2.0	45719.200	1.0
1008.7139	9.00	-.37	118427.823	1.5	128338.720	.5
1008.7543	24.00	-3.83	38597.060	1.0	48507.560	1.0
1008.7747	18.01	-1.88	192556.840	2.5	202467.140	1.5
1008.8480	26.00	-3.27	48361.920	4.0	58271.500	5.0
1008.8693	28.01	-4.34	126679.980	4.5	136589.350	3.5
1008.8815	6.00	-4.61	79323.160	0.0	89232.410	1.0
1008.9172	15.00	-4.36	70391.600	2.5	80300.500	3.5
1008.9222	18.01	-1.06	209337.870	4.5	219246.720	3.5
1008.9477	27.00	-2.11	44568.470	2.5	54477.070	3.5
1008.9569	18.01	-2.60	209338.210	3.5	219246.720	3.5
1008.9608	22.00	-4.92	39115.958	4.0	49024.430	3.0
1008.9650	24.00	-.99	35398.020	4.0	45306.450	5.0
1008.9711	18.01	-1.17	209338.210	3.5	219246.580	2.5
1008.9775	26.00	-2.45	43922.652	3.0	53830.960	3.0
1009.0007	29.01	-2.77	136160.930	5.0	146069.010	6.0
1009.0088	10.01	-1.54	302903.650	2.5	312811.650	3.5
1009.0424	24.00	-4.51	38537.680	5.0	48445.350	6.0
1009.1076	6.00	-4.95	78731.270	1.0	88638.300	2.0
1009.1702	17.00	-2.05	74225.846	1.5	84132.262	2.5
1009.2034	27.00	-1.66	42796.670	1.5	52702.760	1.5
1009.2126	8.01	-2.26	265705.000	2.5	275611.000	1.5
1009.2167	12.01	-.53	93799.700	3.5	103705.660	3.5
1009.2167	12.01	1.02	93799.700	3.5	103705.660	4.5
1009.2167	12.01	.91	93799.700	2.5	103705.660	3.5
1009.2187	29.01	-1.11	138261.830	3.0	148167.770	4.0
1009.2187	29.01	-.05	138261.830	3.0	148167.770	3.0
1009.2350	28.01	-2.15	121227.800	2.5	131133.580	2.5
1009.3012	18.01	-.35	186171.260	.5	196076.390	1.5
1009.3419	6.00	-3.53	78293.490	1.0	88198.220	2.0
1009.4214	24.00	-4.03	24286.540	1.0	34190.490	2.0
1009.4265	15.01	-1.03	130020.400	3.0	139924.300	2.0
1009.4265	18.00	-.95	114147.750	1.0	124051.650	2.0
1009.4286	18.01	-1.25	209248.550	2.5	219152.430	1.5
1009.4480	25.01	-4.16	72247.380	3.0	82151.070	2.0
1009.5224	28.01	-4.12	121190.340	4.5	131093.300	4.5
1009.5428	24.00	-4.55	37883.340	2.0	47786.100	2.0
1009.5631	24.00	-2.16	45306.450	5.0	55209.010	4.0
1009.6733	25.00	-3.99	41403.930	2.5	51305.410	2.5
1009.6814	6.00	-1.94	73975.910	0.0	83877.310	1.0
1009.7130	28.01	-3.52	105838.060	3.5	115739.150	4.5
1009.7185	28.00	-1.26	44336.100	4.0	54237.136	4.0
1009.7222	24.01	-3.53	55023.300	2.5	64924.300	3.5
1009.7649	26.00	-4.58	44166.240	3.0	54066.821	2.0
1009.7742	28.01	-2.54	116838.330	1.5	126738.820	1.5
1009.7905	26.00	-2.52	44166.240	3.0	54066.570	4.0
1009.8456	28.01	-2.09	121042.570	1.5	130942.360	1.5
1009.8466	28.01	-3.94	121042.520	1.5	130942.300	1.5
1009.8489	14.00	-1.30	51612.012	0.0	61511.770	1.0
1009.8517	28.01	-4.64	121042.570	1.5	130942.300	1.5
1009.8793	23.00	-3.62	34019.120	1.5	43918.580	2.5
1009.9263	18.01	-1.13	190507.360	1.5	200406.360	.5
1009.9456	6.00	-2.60	78293.490	1.0	88192.300	1.0
1009.9629	26.02	-4.41	189679.070	3.0	199577.710	2.0
1009.9844	24.00	-4.99	34190.490	2.0	44088.920	1.0
1009.9904	10.01	-1.45	280473.580	1.5	290371.950	2.5
1010.0068	23.00	-2.41	34167.840	2.5	44066.050	3.5
1010.0139	10.01	1.01	302935.310	4.5	312833.450	5.5
1010.0139	10.01	1.08	302935.330	5.5	312833.470	6.5
1010.0150	28.01	-4.82	120903.200	3.5	130801.330	4.5
1010.0160	10.01	-.81	302935.330	5.5	312833.450	5.5
1010.1140	28.01	-2.22	121227.800	2.5	131124.960	3.5
1010.1173	22.00	-3.18	29818.310	3.0	39715.437	3.0
1010.1344	25.01	-4.81	72247.380	3.0	82144.340	3.0
1010.1344	6.00	-4.49	78199.070	2.0	88096.030	2.0
1010.1405	18.01	-2.79	205100.530	5.5	214997.430	4.5
1010.1631	22.00	-3.39	31190.631	2.0	41087.310	3.0
1010.2845	18.01	-.64	205079.070	2.5	214974.560	3.5
1010.2906	18.01	-1.97	205079.070	2.5	214974.500	2.5
1010.3059	14.02	-.66	244871.470	1.0	254766.750	2.0
1010.3823	28.00	-4.19	48735.308	2.0	58629.840	2.0
1010.3988	8.01	-.71	248514.230	1.5	258408.600	.5
1010.3988	18.01	-2.41	204937.800	4.5	214832.170	3.5
1010.4119	28.00	-2.93	48735.308	2.0	58629.550	3.0
1010.4131	26.00	-2.30	43499.485	4.0	53393.715	4.0
1010.4162	28.01	-1.38	108548.610	1.5	118442.810	1.5
1010.4744	18.00	-1.26	114147.750	1.0	124041.380	2.0
1010.4928	18.00	-2.21	114147.750	1.0	124041.200	1.0
1010.5132	7.00	.08	94770.850	.5	104664.100	1.5
1010.5275	18.01	-4.51	205104.320	4.5	214997.430	4.5
1010.5449	6.00	-2.76	78199.070	2.0	88092.010	1.0
1010.5694	27.00	-3.16	42269.320	4.5	52162.020	3.5
1010.5714	28.01	-2.76	121240.900	3.5	131133.580	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1010.5919	18.01	-2.88	205104.320	4.5	214996.800	3.5
1010.6154	9.01	.19	280250.210	2.0	290142.460	2.0
1010.6715	28.01	-2.73	121050.660	2.5	130942.360	1.5
1010.6777	28.01	-4.73	121050.660	2.5	130942.300	1.5
1010.7012	28.01	-2.32	110021.920	4.5	119913.330	4.5
1010.7257	24.00	-3.99	38597.060	1.0	48488.230	0.0
1010.7439	20.00	-4.02	38192.392	1.0	48083.383	2.0
1010.7706	18.01	-1.85	190732.970	.5	200623.700	.5
1010.7839	24.00	-3.65	24299.890	2.0	34190.490	2.0
1010.7849	6.00	-2.49	78307.630	2.0	88198.220	2.0
1010.7941	13.01	-.32	95547.900	2.0	105438.400	1.0
1010.8034	24.00	-4.41	34190.490	2.0	44080.900	2.0
1010.8452	7.01	.79	211490.300	2.0	221380.300	3.0
1010.8596	22.01	-3.42	53554.900	2.5	63444.760	3.5
1010.8861	13.01	-.80	95548.800	1.0	105438.400	1.0
1010.8892	7.00	.41	94793.460	1.5	104683.030	2.5
1010.8953	10.01	-3.43	302935.310	4.5	312824.820	3.5
1010.9178	25.00	-4.33	49591.510	1.5	59480.800	2.5
1010.9209	23.00	-8.43	14949.300	4.5	24838.560	3.5
1010.9270	7.00	-3.19	106477.800	.5	116367.000	.5
1010.9270	7.00	-2.51	106477.800	.5	116367.000	1.5
1010.9352	23.01	-2.01	30306.400	3.0	40195.520	3.0
1010.9659	25.01	-2.85	72247.380	3.0	82136.200	4.0
1010.9945	23.00	-2.65	34030.040	1.5	43918.580	2.5
1011.0089	8.01	-4.19	255689.600	2.5	265578.000	3.5
1011.0231	27.00	-2.16	44394.470	3.5	54282.730	2.5
1011.0334	28.01	-4.88	121862.570	3.5	131750.730	3.5
1011.0436	24.00	-1.67	35398.020	4.0	45286.080	4.0
1011.0590	8.01	-4.10	238626.320	.5	248514.230	1.5
1011.0661	18.01	-3.23	148842.370	2.5	158730.210	2.5
1011.0702	10.01	-.06	294086.490	1.5	303974.290	1.5
1011.1121	18.01	-2.28	201781.790	2.5	211669.180	2.5
1011.1377	27.00	-2.46	42269.320	4.5	52156.460	4.5
1011.1519	15.00	-3.72	68246.500	2.5	78133.500	2.5
1011.1591	18.01	-.48	163506.450	3.5	173393.380	2.5
1011.1929	8.01	-3.03	255691.400	3.5	265578.000	3.5
1011.1980	24.00	-3.83	24303.940	3.0	34190.490	2.0
1011.2481	7.00	.59	94830.860	2.5	104716.920	3.5
1011.2481	6.00	-4.07	64089.850	1.0	73975.910	0.0
1011.2676	6.00	-2.29	78249.940	4.0	88135.810	3.0
1011.2747	15.00	-2.09	68183.200	1.5	78069.000	1.5
1011.2942	25.02	-3.03	208819.640	3.5	218705.250	2.5
1011.3156	29.01	-2.08	137212.700	1.0	147098.100	0.0
1011.3535	28.01	-4.13	121146.980	2.5	131032.010	2.5
1011.3821	22.01	-4.09	20951.770	2.5	30836.520	1.5
1011.3904	6.00	-2.25	78307.630	2.0	88192.300	1.0
1011.3911	14.00	-3.02	50602.440	0.0	60487.103	1.0
1011.3975	28.01	-3.95	106283.160	2.5	116167.760	1.5
1011.4029	26.00	-4.36	22249.430	3.0	32133.977	2.0
1011.4527	28.01	-2.06	121240.900	3.5	131124.960	3.5
1011.4600	26.00	-3.84	47929.981	4.0	57813.970	3.0
1011.4640	7.00	.75	94881.790	3.5	104765.740	4.5
1011.4834	56.01	.62	50011.220	0.0	59897.690	0.0
1011.5070	9.02	-1.57	431432.270	1.5	441315.800	.5
1011.5070	10.01	-2.09	302961.070	1.5	312844.600	1.5
1011.5393	26.00	-3.84	44183.607	2.0	54066.821	2.0
1011.5459	7.00	-2.27	94770.850	.5	104654.000	.5
1011.5643	10.02	-4.83	389069.370	2.0	398952.340	2.0
1011.6636	10.03	-.97	633790.000	1.5	643672.000	1.5
1011.6759	10.01	-1.80	302890.570	2.5	312772.450	2.5
1011.6779	17.00	-2.90	91660.580	2.5	101542.440	1.5
1011.6933	18.01	-3.00	201781.790	2.5	211663.500	3.5
1011.7148	15.03	-.06	293233.500	1.0	303115.000	2.0
1011.7210	10.01	-1.32	302890.570	2.5	312772.010	3.5
1011.7210	14.00	-4.04	50499.838	2.0	60381.278	1.0
1011.7250	8.02	.56	370900.600	2.0	380782.000	3.0
1011.7327	22.00	-5.00	31205.985	3.0	41087.310	3.0
1011.7578	18.01	-2.58	204951.090	3.5	214832.170	3.5
1011.8151	22.00	-4.80	8602.340	2.0	18482.860	1.0
1011.8152	6.00	-2.37	78215.510	3.0	88096.030	2.0
1011.8366	10.01	-4.47	303595.930	3.5	313480.240	4.5
1011.8407	10.01	-3.89	303599.930	3.5	313480.200	3.5
1011.8437	22.00	-4.57	38959.499	4.0	48839.740	3.0
1011.8530	7.01	.29	211287.230	3.0	221167.380	4.0
1011.8714	6.00	-1.96	78318.250	3.0	88198.220	2.0
1011.8991	10.01	-2.43	303600.500	2.5	313480.200	3.5
1011.9289	22.00	-1.13	31489.451	4.0	41368.860	4.0
1011.9534	10.01	-.42	292546.700	.5	302425.870	1.5
1011.9565	10.02	-4.72	389069.370	2.0	398948.510	3.0
1011.9606	26.00	-2.66	44378.420	1.0	54257.520	2.0
1011.9770	25.00	-4.36	35114.980	2.5	44993.920	3.5
1012.0272	18.01	-3.73	205100.530	5.5	214978.980	4.5
1012.0395	18.01	-1.99	205100.530	5.5	214978.860	5.5
1012.0497	24.00	-4.25	34190.490	2.0	44068.720	3.0
1012.0927	22.00	-1.73	17540.205	3.0	27418.015	2.0
1012.1532	27.00	-4.59	43847.980	3.5	53725.200	4.5
1012.1614	27.00	-4.85	44568.470	2.5	54445.610	2.5
1012.1870	23.01	-3.15	30318.630	4.0	40195.520	3.0
1012.2290	7.01	-.67	211287.230	3.0	221163.710	3.0
1012.2290	7.01	-2.08	211287.230	3.0	221163.710	4.0
1012.2433	10.01	-1.49	302935.310	4.5	312811.650	3.5
1012.2433	10.01	-.41	302935.310	4.5	312811.650	4.5
1012.2454	10.01	-2.33	302935.330	5.5	312811.650	4.5
1012.2485	27.00	-3.86	42988.120	3.5	52864.410	4.5
1012.2679	15.03	-.79	293238.900	2.0	303115.000	2.0
1012.3043	26.00	-2.20	44285.436	2.0	54161.182	3.0
1012.3079	18.01	-1.18	190106.230	1.5	199981.940	1.5
1012.3295	13.01	-.67	95548.800	1.0	105424.300	0.0
1012.3397	10.01	-1.83	302935.310	4.5	312810.710	5.5
1012.3416	55.00	-.90	14596.845	0.0	24474.934	0.0
1012.3418	28.01	-2.31	121227.800	2.5	131103.180	2.5
1012.3418	10.01	.01	302935.330	5.5	312810.710	5.5
1012.3438	10.01	-.34	302935.310	4.5	312810.670	4.5
1012.3459	10.01	-1.29	302935.330	5.5	312810.670	4.5
1012.3590	2.01	1.52	411477.918	0.0	421355.837	0.0
1012.3601	55.00	.40	14596.845	0.0	24474.753	0.0
1012.3684	26.02	-2.22	219655.550	2.0	229530.670	1.0
1012.3869	6.00	-.33	68856.330	1.0	78731.270	1.0
1012.3889	10.01	-1.90	302890.570	2.5	312765.490	3.5
1012.4156	18.01	-2.01	205104.320	4.5	214978.980	4.5
1012.4279	18.01	-.17	205104.320	4.5	214978.860	5.5
1012.4443	28.01	-1.87	121240.900	3.5	131115.280	4.5
1012.4443	28.01	-3.78	101246.160	.5	111120.540	1.5
1012.4458	26.00	-4.42	44511.795	2.0	54386.160	1.0
1012.4930	14.00	-2.05	49399.670	1.0	59273.575	1.0
1012.5163	22.00	-.57	29912.262	3.0	39785.940	4.0
1012.5243	24.00	-2.07	45113.220	3.0	54986.820	3.0
1012.5273	27.00	-2.03	46671.940	2.5	56545.510	2.5
1012.5652	7.00	-2.90	106477.800	.5	116351.000	.5
1012.5652	7.00	-3.81	106477.800	.5	116351.000	1.5
1012.5684	28.01	-3.29	101247.370	2.5	111120.540	1.5
1012.5891	28.00	-3.83	48715.200	4.0	58588.168	3.0
1012.6145	7.01	.40	211294.850	4.0	221167.570	5.0
1012.6340	7.01	-1.29	211294.850	4.0	221167.380	4.0
1012.6442	17.00	-2.27	91660.580	2.5	101533.010	2.5
1012.6483	17.00	-3.15	91660.580	2.5	101532.970	1.5
1012.6494	24.00	-4.56	31352.420	1.0	41224.800	0.0
1012.6550	22.00	-.80	29768.655	2.0	39640.980	3.0
1012.6720	27.00	-4.80	44480.140	2.5	54352.300	3.5
1012.6720	29.01	-2.34	138261.830	3.0	148133.990	3.0
1012.6720	29.01	-1.63	138261.830	3.0	148133.990	2.0
1012.6884	15.00	-2.12	68260.600	.5	78132.600	.5
1012.7684	22.00	-3.91	29914.720	3.0	39785.940	4.0
1012.7982	27.00	-1.56	44555.710	1.5	54426.640	1.5
1012.8043	27.00	-1.05	36875.130	1.5	46746.000	2.5
1012.8279	7.00	-.34	94793.460	1.5	104664.100	1.5
1012.8392	28.01	-4.99	121800.340	1.5	131670.870	2.5
1012.8556	18.01	-2.64	189654.780	2.5	199525.150	1.5
1012.8597	24.00	-4.54	36552.130	3.0	46422.460	4.0
1012.8731	28.01	-4.17	121161.810	1.5	131032.010	2.5
1012.9449	25.00	-4.65	52883.870	1.5	62753.370	2.5
1012.9449	25.00	-4.93	52883.870	2.5	62753.370	2.5
1013.0106	7.01	-2.07	211294.850	4.0	221163.710	3.0
1013.0106	7.01	-.55	211294.850	4.0	221163.710	4.0
1013.0229	28.01	-3.11	119913.330	4.5	129782.070	3.5
1013.0342	28.01	-3.43	108763.320	.5	118631.950	.5
1013.0414	27.00	-3.47	42988.120	3.5	52856.680	3.5
1013.0578	15.03	-2.34	293246.600	3.0	303115.000	2.0
1013.0732	8.01	-4.58	246028.950	3.5	255897.200	2.5
1013.1081	25.00	-3.83	47753.990	2.5	57621.900	1.5
1013.1101	14.00	-3.46	49188.617	2.0	59056.508	1.0
1013.1353	26.00	-4.38	44511.795	2.0	54379.440	3.0
1013.1451	28.01	-2.18	110021.920	4.5	119889.470	5.5
1013.1574	27.00	-4.65	16195.680	.5	26063.110	1.5
1013.1656	10.01	-2.04	318828.550	2.5	328695.900	2.5
1013.1656	10.01	-2.17	318828.550	3.5	328695.900	2.5
1013.1677	10.01	-.76	318828.550	2.5	328695.880	1.5
1013.2653	6.00	-2.51	78293.490	1.0	88159.870	0.0
1013.2767	7.00	-3.61	106758.731	.5	116625.000	1.5
1013.2991	10.01	-3.06	282680.650	.5	292546.700	.5
1013.3247	8.01	-.90	255897.200	2.5	265763.000	3.5
1013.3351	29.01	-4.92	136694.100	4.0	146559.800	4.0
1013.3394	22.00	-1.16	29661.232	1.0	39526.890	2.0
1013.3617	18.01	-1.20	201720.670	1.5	211586.110	2.5
1013.4275	8.01	-2.34	255897.200	2.5	265762.000	1.5
1013.4347	25.00	-3.10	58851.490	5.5	68716.220	4.5
1013.4809	27.00	-1.86	44394.470	3.5	54258.750	2.5
1013.5175	26.00	-4.49	44511.795	2.0	54375.719	2.0
1013.5385	17.00	-2.22	91660.580	2.5	101524.300	2.5
1013.5508	17.00	-1.19	91660.580	2.5	101524.180	3.5
1013.5858	14.00	-3.62	53362.240	3.0	63225.500	2.0
1013.6062	26.00	-4.18	47834.529	5.0	57697.590	4.0
1013.6166	21.00	-4.11	29096.200	3.5	38959.160	3.5
1013.6228	13.01	-1.18	134917.300	1.0	144780.200	2.0
1013.6474	15.00	-1.57	67971.140	.5	77833.800	1.5
1013.6525	22.00	-4.83	28791.620	1.0	38654.230	1.0
1013.6608	28.01	-2.12	101258.010	1.5	111120.540	1.5
1013.6865	28.01	-3.59	121240.900	3.5	131103.180	2.5
1013.6936	6.00	-3.03	78199.070	2.0	88061.280	1.0
1013.6952	28.00	-4.27	40484.282	2.0	50346.477	2.0
1013.7026	26.00	-2.37	41018.029	2.0	50880.152	1.0
1013.7091	28.01	-4.94	120903.200	3.5	130765.260	3.5
1013.7111	10.01	-2.32	303599.930	3.5	313461.970	4.5
1013.7255	8.01	-2.09	255843.100	1.5	265705.000	2.5
1013.7636	23.00	-3.79	32692.090	3.5	42553.620	4.5
1013.7749	24.00	-4.74	45113.220	3.0	54974.640	2.0
1013.7954	28.00	-3.53	49327.560	3.0	59188.780	3.0
1013.8386	17.01	-1.62	161348.400	1.0	171209.200	2.0
1013.8407	18.01	-.70	191169.520	1.5	201030.300	.5
1013.8653	23.00	-2.73	15270.420	1.5	25130.960	2.5
1013.8653	7.00	-2.69	94793.460	1.5	104654.000	.5
1013.8746	24.00	-4.05	31364.330	3.0	41224.780	4.0
1013.9126	27.00	-1.75	46685.430	1.5	56545.510	2.5
1014.0360	29.01	-3.25	137077.600	3.0	146936.480	2.0
1014.0803	28.00	-2.84	48671.900	3.0	58530.350	3.0
1014.0926	15.00	-2.93	68088.270	1.5	77946.600	2.5
1014.1091	27.00	-1.70	44568.470	2.5	54426.640	1.5
1014.1133	10.00	-3.61	163401.301	0.0	173259.430	1.0
1014.1183	28.01	-1.94	121042.570	1.5	130900.650	2.5
1014.1327	6.00	-3.15	78340.280	1.0	88198.220	2.0
1014.1636	10.01	-2.99	303599.930	3.5	313457.570	3.5
1014.1667	24.00	-4.76	31048.850	1.0	40906.460	1.0
1014.1667	10.01	-4.33	303599.930	3.5	313457.540	2.5
1014.1790	24.00	-2.74	35398.020	4.0	45255.510	3.0
1014.2223	10.01	-4.21	303600.500	2.5	313457.570	3.5
1014.2583	10.01	-1.00	280947.100	1.5	290803.820	.5
1014.2772	26.00	-2.14	40842.130	3.0	50698.666	2.0
1014.3159	27.00	-2.75	43847.980	3.5	53704.140	2.5
1014.3324	16.05	.33	573823.000	.5	583679.000	1.5
1014.3355	10.01	-.24	292451.780	1.5	302307.750	2.5
1014.3478	25.02	-2.67	208650.540	3.5	218506.390	3.5
1014.3684	26.02	-4.32	219566.080	3.0	229421.730	4.0
1014.3848	28.01	-4.45	121800.340	1.5	131655.830	.5
1014.4270	18.01	-3.57	205056.220	1.5	214911.300	2.5
1014.4785	18.01	-3.59	204977.590	2.5	214832.170	3.5
1014.4991	7.01	-3.07	211287.230	3.0	221141.610	3.0
1014.5166	10.01	.34	302988.870	.5	312843.080	1.5
1014.5228	27.00	-2.09	43847.980	3.5	53702.130	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1014.5331	10.01	-3.37	318841.850	3.5	328695.900	2.5
1014.5336	28.00	-1.48	34408.574	1.0	44262.619	2.0
1014.5372	26.02	-4.14	219655.550	2.0	229509.560	3.0
1014.5505	26.00	-.40	38678.015	2.0	48531.896	3.0
1014.5949	28.01	-3.28	121178.560	3.5	131032.010	2.5
1014.6010	18.01	-.71	190106.230	1.5	199959.620	2.5
1014.6062	18.00	-2.99	114805.180	2.0	124658.520	2.0
1014.6072	10.01	.60	302989.820	1.5	312843.150	2.5
1014.6144	10.01	-.37	302989.820	1.5	312843.080	1.5
1014.6443	23.00	-4.74	34065.610	2.5	43918.580	2.5
1014.6556	28.00	-4.79	48735.308	2.0	58588.168	3.0
1014.6917	7.01	-2.73	211490.300	2.0	221342.810	3.0
1014.6966	22.00	-1.01	31628.668	5.0	41481.130	5.0
1014.7030	28.01	-1.80	121240.900	3.5	131093.300	4.5
1014.7267	7.00	-.24	94830.860	2.5	104683.030	2.5
1014.7555	27.00	-4.53	42269.320	4.5	52121.210	4.5
1014.7666	26.00	-3.67	44022.518	4.0	53874.300	5.0
1014.7748	26.00	-2.98	44415.057	4.0	54266.760	5.0
1014.7853	18.01	-1.87	201720.670	1.5	211572.270	1.5
1014.7864	28.01	-4.00	121090.710	.5	130942.300	1.5
1014.8218	26.00	-3.86	48122.913	3.0	57974.160	2.0
1014.9090	26.00	-2.66	41130.620	1.0	50981.020	0.0
1014.9513	28.01	-2.70	121050.660	2.5	130900.650	2.5
1014.9884	25.00	-3.06	58843.390	6.5	68693.020	5.5
1014.9956	25.00	-3.81	58866.660	4.5	68716.220	4.5
1015.0502	24.00	-4.35	37205.880	3.0	47054.910	4.0
1015.0533	8.01	-1.81	265762.000	1.5	275611.000	.5
1015.0533	8.01	-2.03	265762.000	1.5	275611.000	1.5
1015.0811	21.00	-3.86	29022.870	2.5	38871.600	2.5
1015.1471	26.00	-4.03	43321.120	6.0	53169.210	6.0
1015.1584	28.01	-3.57	121227.800	2.5	131075.780	1.5
1015.2183	26.00	-1.85	47966.571	3.0	57813.970	3.0
1015.2549	26.00	-3.11	44285.436	2.0	54132.480	1.0
1015.2780	24.00	-4.29	31377.960	4.0	41224.780	4.0
1015.2842	7.01	-1.39	211294.850	4.0	221141.610	3.0
1015.2942	7.00	-2.95	106778.337	1.5	116625.000	1.5
1015.2942	7.00	-2.64	106778.337	1.5	116625.000	2.5
1015.3017	27.00	-1.56	43847.980	3.5	53694.570	3.5
1015.3231	26.00	-3.29	44411.137	1.0	54257.520	2.0
1015.3246	26.00	-2.58	43922.652	3.0	53769.020	4.0
1015.3254	15.00	-.58	66813.040	1.5	76659.400	2.5
1015.3409	28.00	-2.64	48671.900	3.0	58518.110	4.0
1015.3760	18.00	-3.79	114805.180	2.0	124651.050	1.0
1015.4420	18.01	-2.71	186470.280	1.5	196315.510	2.5
1015.4564	25.02	-3.32	208751.600	4.5	218596.690	5.5
1015.4935	24.00	-3.89	36577.730	4.0	46422.460	4.0
1015.5079	7.00	-.38	94770.850	.5	104615.440	1.5
1015.5080	27.00	-1.94	42269.320	4.5	52113.910	5.5
1015.5177	26.00	-4.53	17550.180	3.0	27394.676	3.0
1015.5224	9.02	-.15	431432.270	1.5	441276.720	2.5
1015.5307	10.00	-4.42	163012.621	1.0	172856.990	1.0
1015.5386	22.00	-4.06	20062.980	1.0	29907.273	2.0
1015.5420	25.01	-3.92	72306.810	2.0	82151.070	2.0
1015.5461	6.00	-2.70	73975.910	0.0	83820.130	1.0
1015.5812	28.01	-2.86	120144.170	2.5	129988.050	2.5
1015.6039	10.01	-1.69	302961.070	1.5	312804.730	2.5
1015.6122	6.00	-2.93	78731.270	1.0	88574.850	2.0
1015.6180	14.00	-2.18	49188.617	2.0	59032.140	2.0
1015.6557	26.00	-3.56	45281.816	2.0	55124.974	3.0
1015.6590	26.00	-2.43	37046.000	4.0	46889.126	4.0
1015.6751	10.01	-2.81	302961.070	1.5	312804.040	1.5
1015.7133	24.00	-2.82	37205.880	3.0	47048.480	3.0
1015.8155	10.01	-3.37	294086.490	1.5	303928.100	.5
1015.8175	24.00	-4.40	37205.880	3.0	47047.470	2.0
1015.8237	25.00	-3.63	58851.490	5.5	68693.020	5.5
1015.8951	20.00	-2.68	38192.392	1.0	48033.230	2.0
1016.0023	15.01	-.34	129570.400	1.0	139410.200	2.0
1016.0137	28.01	-4.40	121192.320	3.5	131032.010	2.5
1016.0324	10.00	-3.95	163012.621	1.0	172852.130	0.0
1016.0655	20.00	-2.24	38192.392	1.0	48031.580	1.0
1016.1511	18.00	-2.20	114805.180	2.0	124643.540	1.0
1016.1711	14.00	-3.75	53387.334	1.0	63225.500	2.0
1016.1934	27.00	-2.57	42796.670	1.5	52634.620	.5
1016.2017	28.01	-3.56	121194.140	2.5	131032.010	2.5
1016.2058	23.00	-4.71	27187.770	2.5	37025.600	3.5
1016.2357	25.01	-3.49	72320.620	1.0	82158.160	0.0
1016.2368	25.01	-2.87	72306.810	2.0	82144.340	3.0
1016.2546	22.00	-1.72	39077.713	1.0	48915.070	2.0
1016.2843	29.01	-3.00	136270.260	4.0	146107.330	4.0
1016.2843	29.01	.92	136270.260	4.0	146107.330	5.0
1016.2998	10.01	-2.87	318828.550	3.5	328665.470	4.5
1016.3008	23.00	-2.87	15078.250	.5	24915.160	1.5
1016.3205	27.00	-3.12	43952.060	5.5	53788.780	4.5
1016.3401	18.00	-1.99	114821.990	3.0	124658.520	2.0
1016.3442	18.00	-.76	111818.090	1.0	121654.580	2.0
1016.3538	9.00	-1.07	116040.883	1.5	125877.280	1.5
1016.3597	12.01	-3.24	103196.750	.5	113033.090	1.5
1016.3742	27.00	-4.89	45111.480	4.5	54947.680	5.5
1016.3866	18.01	-3.17	204996.090	3.5	214832.170	3.5
1016.3876	18.01	-.90	190196.160	.5	200032.230	1.5
1016.3911	14.00	.16	54185.264	1.0	64021.300	2.0
1016.4421	18.00	-3.63	113426.050	2.0	123261.593	2.0
1016.4848	7.00	-.42	94881.790	3.5	104716.920	3.5
1016.4879	25.01	-3.50	72320.620	1.0	82155.720	1.0
1016.4961	10.01	-3.64	302989.820	1.5	312824.840	2.5
1016.5716	24.01	-4.63	74484.250	2.5	84318.540	1.5
1016.5809	7.00	-3.41	106477.800	.5	116312.000	.5
1016.5809	7.00	-3.71	106477.800	.5	116312.000	1.5
1016.6336	23.01	-5.46	26839.820	3.0	36673.510	2.0
1016.6377	25.01	-3.91	72322.070	0.0	82155.720	1.0
1016.6532	12.01	-3.54	103196.750	.5	113030.250	.5
1016.6646	14.02	-.36	244933.360	1.0	254766.750	2.0
1016.6801	7.00	-1.60	94830.860	2.5	104664.100	1.5
1016.6884	29.01	-.09	136270.260	4.0	146103.420	5.0
1016.7481	26.00	-4.47	17726.985	2.0	27559.568	2.0
1016.7525	27.00	-.98	36092.440	2.5	45924.980	3.5
1016.7715	22.00	-4.13	36000.144	4.0	45832.500	5.0
1016.7753	18.01	-3.22	192712.000	1.5	202544.320	2.5
1016.7846	18.01	-3.07	205079.070	2.5	214911.300	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1016.9108	7.01	-1.47	211415.160	2.0	221246.170	1.0
1016.9635	28.01	-2.61	108548.610	1.5	118379.110	2.5
1016.9852	28.01	-3.57	121294.670	4.5	131124.960	3.5
1016.9883	27.00	-2.31	42434.230	2.5	52264.490	1.5
1017.0018	22.00	-3.29	36414.470	3.0	46244.600	2.0
1017.0380	9.02	-3.43	380250.520	2.5	390080.300	1.5
1017.0452	16.01	-1.88	118146.500	1.5	127976.210	1.5
1017.0473	22.00	-3.44	11639.804	3.0	21469.494	3.0
1017.1249	18.00	-2.37	113426.050	2.0	123254.990	1.0
1017.1423	26.00	-2.46	40594.413	4.0	50423.185	4.0
1017.1467	23.01	-2.89	44098.460	3.0	53927.190	3.0
1017.2036	6.00	-3.36	78307.630	2.0	88135.810	3.0
1017.2326	24.00	-3.72	38730.670	2.0	48558.570	2.0
1017.2445	28.00	-3.75	47030.148	3.0	56857.933	4.0
1017.2502	9.02	-3.30	430374.750	2.5	440202.480	2.5
1017.2626	28.01	-1.74	121294.670	4.5	131122.280	5.5
1017.3029	27.00	-1.41	41225.760	4.5	51052.980	3.5
1017.3050	7.00	-3.78	106477.800	.5	116305.000	.5
1017.3050	7.00	-3.27	106477.800	.5	116305.000	1.5
1017.3160	26.00	-3.90	45551.748	1.0	55378.842	2.0
1017.3161	26.00	-4.65	50979.627	4.0	60806.720	3.0
1017.4085	24.00	-3.61	23512.000	1.0	33338.200	0.0
1017.4582	22.00	-4.60	28828.510	2.0	38654.230	1.0
1017.4624	27.00	-3.95	42269.320	4.5	52095.000	3.5
1017.5437	26.00	-2.95	43922.652	3.0	53747.547	3.0
1017.5660	18.01	-.86	201781.790	2.5	211606.470	3.5
1017.5956	26.00	-4.35	44551.325	3.0	54375.719	2.0
1017.5982	26.00	-3.81	45551.748	1.0	55376.117	1.0
1017.6064	10.01	-.25	292651.320	1.5	302475.610	.5
1017.6096	20.00	-3.23	38259.124	3.0	48083.383	2.0
1017.6374	28.01	-4.35	121862.570	3.5	131686.560	4.5
1017.6519	29.01	.37	136270.260	4.0	146094.110	4.0
1017.6519	29.01	-1.64	136270.260	4.0	146094.110	3.0
1017.6758	10.01	-3.00	318841.850	3.5	328665.470	4.5
1017.6799	10.01	-2.91	318841.890	4.5	328665.470	4.5
1017.6955	10.01	-2.88	318841.890	4.5	328665.320	5.5
1017.7069	11.00	-1.78	30266.990	.5	40090.310	1.5
1017.7430	17.00	-2.67	74865.667	.5	84688.637	.5
1017.7441	24.00	-4.17	35884.400	5.0	45707.360	6.0
1017.7804	28.00	-2.79	49403.420	1.0	59226.030	1.0
1017.7855	10.01	-1.75	292033.150	2.5	301855.710	2.5
1017.7918	15.00	-3.54	68246.500	2.5	78069.000	1.5
1017.8157	7.00	-3.65	106758.731	.5	116581.000	.5
1017.8229	8.01	-3.68	255755.800	2.5	265578.000	3.5
1017.8457	7.00	-1.06	94793.460	1.5	104615.440	1.5
1017.8539	8.01	-1.42	255843.100	1.5	265665.000	2.5
1017.8633	24.00	-2.75	37233.500	5.0	47055.310	5.0
1017.9016	14.00	-2.71	49399.670	1.0	59221.110	0.0
1017.9047	24.00	-3.98	37233.500	5.0	47054.910	4.0
1017.9401	14.00	-4.01	50189.389	2.0	60010.458	1.0
1017.9867	22.00	-1.31	31373.801	3.0	41194.420	3.0
1017.9877	28.01	-2.30	121294.670	4.5	131115.280	4.5
1017.9879	28.00	-1.47	43933.428	2.0	53754.036	2.0
1018.0395	28.01	-4.98	121800.340	1.5	131620.450	1.5
1018.0934	6.00	-3.78	78340.280	1.0	88159.870	0.0
1018.1245	28.01	-2.60	109846.000	3.5	119665.290	2.5
1018.1920	10.00	-4.17	163038.351	2.0	172856.990	1.0
1018.1960	8.01	-2.20	255759.400	3.5	265578.000	3.5
1018.2780	23.00	-8.97	14910.040	3.5	24727.850	2.5
1018.2863	11.00	-1.52	30272.580	1.5	40090.310	2.5
1018.2863	11.00	-2.48	30272.580	1.5	40090.310	1.5
1018.3039	6.00	-2.43	78318.250	3.0	88135.810	3.0
1018.3281	22.00	-3.98	28882.440	3.0	38699.767	2.0
1018.3523	20.00	-2.64	38219.118	2.0	48036.212	3.0
1018.3558	18.01	-3.35	186815.960	3.5	196633.020	2.5
1018.3641	14.00	.16	54205.090	2.0	64022.070	3.0
1018.3911	6.00	-3.42	88061.280	1.0	97878.000	2.0
1018.4191	14.02	-.39	240549.770	2.0	250366.220	3.0
1018.4429	24.00	-4.34	36552.130	3.0	46368.350	3.0
1018.4440	14.00	-.52	54205.090	2.0	64021.300	2.0
1018.4450	8.02	-.22	428487.000	1.0	438303.200	2.0
1018.4523	23.01	-1.65	30613.970	4.0	40430.100	4.0
1018.4688	20.01	-1.03	74484.920	.5	84300.890	.5
1018.4779	26.00	-4.35	45562.959	3.0	55378.842	2.0
1018.4979	28.01	-2.45	121317.890	3.5	131133.580	2.5
1018.5540	28.00	-3.68	48715.200	4.0	58530.350	3.0
1018.5819	14.00	-4.23	50566.397	1.0	60381.278	1.0
1018.5838	22.00	-3.02	29971.078	4.0	39785.940	4.0
1018.6058	10.01	-.83	280768.520	.5	290583.170	1.5
1018.6149	9.00	-.48	118405.267	.5	128219.830	1.5
1018.6411	14.00	-2.90	54205.090	2.0	64019.400	3.0
1018.6432	10.01	-1.65	280989.530	1.5	290803.820	.5
1018.6617	20.00	-2.07	38219.118	2.0	48033.230	2.0
1018.7107	9.02	-3.09	380307.130	1.5	390120.770	.5
1018.7831	22.00	-4.83	18825.890	1.0	28638.832	2.0
1018.8049	22.00	-3.38	28952.100	4.0	38764.832	3.0
1018.8329	20.00	-2.70	38219.118	2.0	48031.580	1.0
1018.8529	22.01	-3.83	52458.980	1.5	62271.250	2.5
1018.8560	28.00	-4.48	48817.600	1.0	58629.840	2.0
1018.9131	22.00	-3.39	11776.806	4.0	21588.496	4.0
1018.9453	10.01	-1.46	302961.070	1.5	312772.450	2.5
1018.9703	24.00	-3.86	37244.170	4.0	47055.310	5.0
1018.9765	28.01	-3.06	110021.920	4.5	119833.000	5.5
1019.0076	26.02	-2.75	189784.520	2.0	199595.300	3.0
1019.0118	24.00	-2.84	37244.170	4.0	47054.910	4.0
1019.0125	26.00	-1.99	48163.427	2.0	57974.160	2.0
1019.0325	7.00	-4.21	106814.459	2.5	116625.000	1.5
1019.0325	7.00	-2.75	106814.459	2.5	116625.000	2.5
1019.0627	28.01	-4.91	109846.000	3.5	119656.250	3.5
1019.1094	24.00	-4.94	36558.550	2.0	46368.350	3.0
1019.1448	10.02	-4.98	389139.050	3.0	398948.510	3.0
1019.1926	17.02	-2.34	196137.900	2.5	205946.900	2.5
1019.2505	26.00	-3.45	44022.518	4.0	53830.960	3.0
1019.2549	15.00	-1.96	68260.600	.5	78069.000	1.5
1019.3006	18.01	-3.51	148620.070	1.5	158428.030	.5
1019.3037	10.02	-4.49	389139.050	3.0	398946.980	4.0
1019.3172	8.01	-1.17	255897.200	2.5	265705.000	2.5
1019.3228	28.00	-.68	32982.280	1.0	42790.027	2.0
1019.3443	29.01	-1.37	108335.430	2.0	118142.970	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1019.3484	28.01	-3.86	99340.550	3.5	109148.050	4.5
1019.3516	24.00	-4.72	35934.020	6.0	45741.490	7.0
1019.3723	23.00	-3.07	13801.530	1.5	23608.800	1.5
1019.3931	28.01	-1.48	121317.890	3.5	131124.960	3.5
1019.5120	26.00	-4.18	21999.132	4.0	31805.059	3.0
1019.5127	18.01	-2.90	186815.960	3.5	196621.880	3.5
1019.5332	28.00	-2.94	48715.200	4.0	58520.923	5.0
1019.5501	27.00	-2.40	43537.710	1.5	53343.270	1.5
1019.5667	8.02	-1.59	370900.600	2.0	380706.000	2.0
1019.6333	22.00	-4.62	34170.950	0.0	43975.710	1.0
1019.6733	26.00	-4.93	36940.600	2.0	46744.975	3.0
1019.6790	18.01	-1.83	201781.790	2.5	211586.110	2.5
1019.6801	24.00	-4.06	37244.170	4.0	47048.480	3.0
1019.7019	24.00	-2.60	24093.160	2.0	33897.260	1.0
1019.7064	10.00	-4.56	162408.653	2.0	172212.710	1.0
1019.7064	10.00	-3.60	162408.653	2.0	172212.710	2.0
1019.7540	10.01	-2.44	281998.280	2.5	291801.880	1.5
1019.7786	20.00	-1.70	37751.867	2.0	47555.230	3.0
1019.7893	24.00	-3.91	47586.060	5.0	57389.320	6.0
1019.8025	22.00	-3.22	37659.927	3.0	47463.060	4.0
1019.8257	28.00	-4.06	48715.200	4.0	58518.110	4.0
1019.8486	29.01	-.72	136270.260	4.0	146072.950	3.0
1019.8515	7.00	-3.66	106778.337	1.5	116581.000	.5
1019.8515	7.00	-3.21	106778.337	1.5	116581.000	1.5
1019.8515	7.00	-2.76	106778.337	1.5	116581.000	2.5
1019.8559	25.00	-3.77	53103.190	1.5	62905.810	2.5
1019.8590	27.00	-2.95	44480.140	2.5	54282.730	2.5
1019.8643	6.00	-3.66	78293.490	1.0	88096.030	2.0
1019.9187	20.00	-2.04	37748.197	1.0	47550.214	2.0
1019.9797	23.00	-3.13	27187.770	2.5	36989.200	2.5
1019.9995	7.00	-1.74	94881.790	3.5	104683.030	2.5
1020.0089	24.00	-4.34	35813.730	3.0	45614.880	4.0
1020.0578	17.00	-3.63	91089.450	3.5	100890.130	2.5
1020.0786	26.00	-2.51	44166.240	3.0	53966.720	2.0
1020.0838	15.00	-.98	68088.270	1.5	77888.700	1.5
1020.0864	17.00	-2.60	91089.450	3.5	100889.855	3.5
1020.1093	7.00	-3.35	110349.140	3.5	120149.325	4.5
1020.1100	7.00	-2.95	110349.060	2.5	120149.238	3.5
1020.1184	7.00	-4.19	110349.140	3.5	120149.238	3.5
1020.1525	22.01	-2.85	52471.480	2.5	62271.250	2.5
1020.1541	22.00	-1.86	29986.185	3.0	39785.940	4.0
1020.1848	15.00	-.87	67971.140	.5	77770.600	.5
1020.2296	8.01	-3.80	238626.320	.5	248425.350	.5
1020.2712	28.01	-3.31	121294.670	4.5	131093.300	4.5
1020.2827	6.00	-4.64	78293.490	1.0	88092.010	1.0
1020.2889	28.01	-2.76	106369.300	1.5	116167.760	1.5
1020.2948	20.00	-2.30	37751.867	2.0	47550.271	3.0
1020.2951	29.01	-3.56	140984.200	1.0	150782.600	2.0
1020.3007	20.00	-3.17	37751.867	2.0	47550.214	2.0
1020.3472	23.00	-2.43	13810.900	.5	23608.800	1.5
1020.3639	23.00	-5.37	8715.720	3.5	18513.460	4.5
1020.3930	18.01	-2.17	147875.860	2.5	157673.320	2.5
1020.4003	28.01	-1.22	121317.890	3.5	131115.280	4.5
1020.4024	24.00	-3.34	36552.130	3.0	46349.500	2.0
1020.4545	24.00	-3.16	47586.060	5.0	57382.930	5.0
1020.4711	24.00	-2.70	44875.190	2.0	54671.900	1.0
1020.4732	15.00	-.57	58174.450	1.5	67971.140	.5
1020.4826	25.00	-2.71	53109.210	2.5	62905.810	2.5
1020.5097	17.00	-1.53	91069.020	.5	100865.360	1.5
1020.6160	28.01	-3.48	121146.980	2.5	130942.300	1.5
1020.6180	24.00	-4.22	33113.270	4.0	42908.570	4.0
1020.6449	28.00	-2.75	48735.308	2.0	58530.350	3.0
1020.6826	18.00	-2.67	113426.050	2.0	123220.730	2.0
1020.7431	15.01	-1.96	132164.300	2.0	141958.400	1.0
1020.7598	23.00	-4.80	8578.520	2.5	18372.460	3.5
1020.7743	8.01	-2.45	255897.200	2.5	265691.000	3.5
1020.8379	26.02	-4.28	189784.520	2.0	199577.710	2.0
1020.8533	18.00	-2.08	113468.550	2.0	123261.593	2.0
1020.8640	25.00	-3.71	49591.510	1.5	59384.450	1.5
1020.8659	20.00	-1.71	37757.449	3.0	47550.371	4.0
1020.8763	20.00	-2.77	37757.449	3.0	47550.271	3.0
1020.8807	27.00	-3.52	43911.360	1.5	53704.140	2.5
1020.8823	20.00	-4.32	37757.449	3.0	47550.214	2.0
1020.8838	24.00	-3.77	35870.530	4.0	45663.280	5.0
1020.9341	22.00	-4.69	20062.980	1.0	29855.248	1.0
1020.9613	9.00	-.51	118427.823	1.5	128219.830	1.5
1021.0246	22.00	-4.12	38670.710	4.0	48462.110	5.0
1021.0278	22.00	-4.90	18911.399	2.0	28702.768	3.0
1021.0558	17.02	-1.05	196155.800	3.5	205946.900	2.5
1021.0715	24.00	-4.50	36558.550	2.0	46349.500	2.0
1021.1059	24.00	-2.93	36577.730	4.0	46368.350	3.0
1021.1205	18.01	-3.03	201781.790	2.5	211572.270	1.5
1021.1946	18.01	-1.10	185093.230	4.5	194883.000	3.5
1021.2353	18.00	-2.35	114861.670	0.0	124651.050	1.0
1021.2540	8.02	.21	428606.000	2.0	438395.200	3.0
1021.2655	56.01	-.31	50011.220	0.0	59802.993	0.0
1021.2958	8.01	-3.41	248009.100	1.5	257797.900	1.5
1021.3375	6.00	-2.99	78307.630	2.0	88096.030	2.0
1021.3385	23.01	-2.75	30641.710	3.0	40430.100	4.0
1021.3730	28.01	-3.31	122140.710	4.5	131928.770	4.5
1021.3845	20.02	-3.47	373401.870	3.0	383189.820	4.0
1021.4178	26.02	-2.92	219743.040	1.0	229530.670	1.0
1021.4471	27.00	-2.88	42988.120	3.5	52775.470	4.5
1021.5128	24.00	-2.09	47586.060	5.0	57372.780	4.0
1021.5420	18.00	-3.01	113468.550	2.0	123254.990	1.0
1021.5890	6.00	-3.46	88092.010	1.0	97878.000	2.0
1021.5974	10.01	-2.70	280797.260	2.5	290583.170	1.5
1021.6109	18.01	-1.12	190196.160	.5	199981.940	1.5
1021.6214	27.00	-4.97	43130.240	.5	52915.920	.5
1021.6255	26.00	-.30	38175.332	3.0	47960.973	4.0
1021.6621	28.01	-4.12	121317.890	3.5	131103.180	2.5
1021.6643	26.00	-4.79	44664.061	2.0	54449.330	1.0
1021.7112	24.00	-1.03	35501.260	3.0	45286.080	4.0
1021.7237	15.01	-.01	130020.400	3.0	139805.100	3.0
1021.7363	7.00	-2.35	94830.860	2.5	104615.440	1.5
1021.7519	22.00	-4.22	38544.380	3.0	48328.810	4.0
1021.7572	6.00	-3.28	78307.630	2.0	88092.010	1.0
1021.7760	15.01	-.07	129626.000	1.0	139410.200	2.0
1021.7822	27.00	-2.09	36092.440	2.5	45876.580	2.5
1021.8146	27.00	-4.94	44568.470	2.5	54352.300	3.5
1021.8229	20.02	-.12	360388.680	3.0	370172.430	4.0
1021.8420	26.00	-3.13	24772.019	1.0	34555.586	0.0
1021.8835	18.02	-4.51	204563.530	1.0	214346.700	1.0
1021.8894	26.00	-2.59	44183.607	2.0	53966.720	2.0
1021.9336	23.00	-4.62	8476.200	1.5	18258.890	2.5
1021.9336	8.01	-3.04	238731.540	1.5	248514.230	1.5
1021.9786	18.01	-.91	203151.200	2.5	212933.460	2.5
1021.9796	26.00	-2.82	43499.485	4.0	53281.735	5.0
1021.9796	27.00	-3.12	43921.890	2.5	53704.140	2.5
1021.9949	17.00	-1.34	91089.450	3.5	100871.554	3.5
1022.0089	6.00	-4.88	88096.030	2.0	97878.000	2.0
1022.0162	13.01	-1.93	132819.700	3.0	142601.600	3.0
1022.0193	18.00	-2.64	114861.670	0.0	124643.540	1.0
1022.0269	22.00	-3.40	39077.713	1.0	48859.510	1.0
1022.0309	17.00	-.38	91089.450	3.5	100871.209	4.5
1022.0350	25.00	-3.33	53124.090	3.5	62905.810	2.5
1022.0371	13.01	-1.03	132819.900	2.0	142601.600	3.0
1022.0392	26.02	-2.98	189796.030	1.0	199577.710	2.0
1022.0700	26.00	-3.26	44285.436	2.0	54066.821	2.0
1022.0893	7.00	-2.64	106477.800	.5	116259.000	.5
1022.0893	7.00	-3.71	106477.800	.5	116259.000	1.5
1022.0977	18.01	.19	203151.200	2.5	212932.320	1.5
1022.1635	28.01	-3.45	121161.810	1.5	130942.300	1.5
1022.1666	18.01	-4.82	205194.040	1.5	214974.500	2.5
1022.1823	23.00	-4.24	28462.150	2.5	38242.460	3.5
1022.1896	27.00	-3.53	43921.890	2.5	53702.130	3.5
1022.2377	18.00	-3.86	113426.050	2.0	123205.830	3.0
1022.2436	9.00	-1.02	118405.267	.5	128184.990	.5
1022.2565	27.00	-4.91	21920.090	4.5	31699.690	4.5
1022.3046	20.01	-.73	74521.750	1.5	84300.890	.5
1022.3318	24.00	-2.84	35884.400	5.0	45663.280	5.0
1022.3362	14.00	-3.76	50602.440	0.0	60381.278	1.0
1022.3600	27.00	-3.72	44480.140	2.5	54258.750	2.5
1022.3611	8.01	-2.63	255689.600	2.5	265468.200	1.5
1022.3705	22.01	-2.70	52631.070	3.5	62409.580	3.5
1022.3839	26.00	-4.85	44022.518	4.0	53800.900	5.0
1022.3977	25.02	-4.65	121117.140	3.5	130895.390	4.5
1022.4071	20.01	-1.93	80521.530	1.5	90299.690	2.5
1022.4468	6.00	-4.28	78318.250	3.0	88096.030	2.0
1022.4631	10.00	-3.85	158601.115	2.0	168378.740	2.0
1022.4636	7.01	-1.51	211389.950	5.0	221167.570	5.0
1022.4835	7.01	-3.24	211389.950	5.0	221167.380	4.0
1022.5106	28.01	-2.34	106007.890	2.5	115785.060	1.5
1022.5191	20.00	-1.81	38259.124	3.0	48036.212	3.0
1022.5250	10.00	-3.89	162435.678	1.0	172212.710	1.0
1022.5399	24.00	-3.94	38730.670	2.0	48507.560	1.0
1022.5806	6.00	-3.55	73975.910	0.0	83752.410	1.0
1022.5942	17.00	-2.67	91089.450	3.5	100865.820	2.5
1022.6016	27.00	-2.83	43952.060	5.5	53728.360	6.5
1022.6126	28.00	-1.41	44475.158	2.0	54251.353	3.0
1022.6173	24.01	-4.70	74718.050	1.5	84494.200	2.5
1022.6330	29.01	-.68	136799.300	2.0	146575.300	2.0
1022.6790	27.00	-2.61	42988.120	3.5	52763.680	3.5
1022.6850	9.00	-.58	118936.797	1.5	128712.300	1.5
1022.6936	18.01	-3.05	196621.880	3.5	206397.300	3.5
1022.6947	28.01	-1.14	121317.890	3.5	131093.300	4.5
1022.6947	18.01	-2.07	196621.880	3.5	206397.290	4.5
1022.7289	26.00	-4.48	50979.627	4.0	60754.710	4.0
1022.7564	18.00	-2.66	114975.070	1.0	124749.890	0.0
1022.7627	10.01	-3.07	281720.280	1.5	291495.040	2.5
1022.7847	10.01	-.41	292651.320	1.5	302425.870	1.5
1022.8312	20.00	-2.67	38259.124	3.0	48033.230	2.0
1022.8423	10.03	-1.19	633465.000	.5	643239.000	.5
1022.8454	28.01	-2.20	94729.250	2.5	104503.220	2.5
1022.8674	7.01	-2.88	211389.950	5.0	221163.710	4.0
1022.8914	20.01	-1.78	80526.160	2.5	90299.690	3.5
1022.8914	20.01	-3.08	80526.160	2.5	90299.690	2.5
1022.9113	24.00	-3.01	35934.020	6.0	45707.360	6.0
1022.9228	14.00	-2.09	49028.294	0.0	58801.524	1.0
1022.9291	9.02	-3.76	380307.130	1.5	390080.300	1.5
1022.9322	27.00	-3.31	43952.060	5.5	53725.200	4.5
1022.9678	24.00	-4.72	45201.840	1.0	54974.640	2.0
1022.9720	10.01	-2.39	303071.840	2.5	312844.600	1.5
1022.9772	24.00	-4.04	38537.680	5.0	48310.390	5.0
1022.9804	27.00	-3.51	43921.890	2.5	53694.570	3.5
1022.9992	8.01	-2.88	256083.500	1.5	265856.000	2.5
1023.0851	18.01	-.05	189040.870	1.5	198812.550	2.5
1023.1427	10.01	-1.85	282680.650	.5	292451.780	1.5
1023.1594	27.00	-3.28	43199.650	2.5	52970.620	2.5
1023.1898	25.01	-4.40	72648.800	4.0	82419.480	3.0
1023.1909	9.02	-3.66	380307.130	1.5	390077.800	2.5
1023.2034	26.00	-2.99	48231.330	5.0	58001.880	6.0
1023.2117	28.00	-2.37	43933.428	2.0	53703.899	1.0
1023.2432	23.01	-3.71	44098.460	3.0	53868.630	2.0
1023.2600	25.00	-4.90	33825.490	2.5	43595.500	2.5
1023.3307	26.00	-3.29	36975.640	3.0	46744.975	3.0
1023.3552	17.02	-3.03	195268.200	1.5	205037.300	1.5
1023.4066	27.00	-3.26	44658.030	1.5	54426.640	1.5
1023.4286	8.01	-1.78	256087.600	2.5	265856.000	2.5
1023.4600	13.01	-.88	135012.100	1.0	144780.200	2.0
1023.4768	10.01	-1.64	292033.150	2.5	301801.090	3.5
1023.4915	8.01	-1.80	255897.200	2.5	265665.000	2.5
1023.4925	6.00	-3.26	78293.490	1.0	88061.280	1.0
1023.4957	23.01	-3.73	44159.430	2.0	53927.190	3.0
1023.5115	26.00	-4.59	47929.981	4.0	57697.590	4.0
1023.6234	7.00	-2.57	106814.459	2.5	116581.000	1.5
1023.6234	7.00	-2.36	106814.459	2.5	116581.000	2.5
1023.6696	29.01	-4.18	129116.900	3.0	138883.000	4.0
1023.7283	7.01	-1.68	211402.030	4.0	221167.570	5.0
1023.7482	7.01	-1.48	211402.030	4.0	221167.380	4.0
1023.7587	28.01	-4.30	121050.660	2.5	130815.910	3.5
1023.7954	8.01	-3.74	255813.100	2.5	265578.000	3.5
1023.8175	20.02	-3.42	373425.510	4.0	383190.200	5.0
1023.8386	14.00	-.73	54257.582	3.0	64022.070	3.0
1023.8426	18.01	-2.21	150474.900	1.5	160239.350	1.5
1023.8573	20.02	-4.22	373425.510	4.0	383189.820	4.0
1023.8605	18.01	-3.10	196633.020	2.5	206397.300	3.5
1023.8903	7.00	-1.02	110385.330	3.5	120149.325	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1023.8995	7.00	-2.83	110385.330	2.5	120149.238	3.5
1023.8995	7.00	-1.01	110385.330	3.5	120149.238	3.5
1023.9194	14.00	-1.91	54257.582	3.0	64021.300	2.0
1023.9213	27.00	-1.45	44394.470	3.5	54158.170	4.5
1023.9381	18.01	-.24	194822.100	3.5	204585.640	2.5
1023.9842	17.00	-1.84	91127.030	2.5	100890.130	2.5
1024.0130	17.00	-1.25	91127.030	2.5	100889.855	3.5
1024.0293	25.00	-4.50	52870.100	3.5	62632.770	3.5
1024.0786	7.00	-2.44	106477.800	.5	116240.000	1.5
1024.1186	14.00	-3.75	54257.582	3.0	64019.400	3.0
1024.1331	7.01	-3.24	211402.030	4.0	221163.710	3.0
1024.1331	7.01	-2.50	211402.030	4.0	221163.710	4.0
1024.1388	22.00	-3.88	18145.400	2.0	27907.026	2.0
1024.1394	24.00	-3.69	45225.200	2.0	54986.820	3.0
1024.1919	23.00	-4.69	8412.940	.5	18174.060	1.5
1024.1947	9.00	-.37	118936.797	1.5	128697.890	2.5
1024.4259	24.00	-3.66	47630.430	6.0	57389.320	6.0
1024.4532	22.00	-3.14	39265.800	2.0	49024.430	3.0
1024.4947	22.00	-1.63	29768.655	2.0	39526.890	2.0
1024.5068	24.00	-4.43	35807.900	2.0	45566.020	3.0
1024.5561	28.01	-4.35	105981.500	4.5	115739.150	4.5
1024.5643	22.00	-4.69	38451.298	2.0	48208.870	3.0
1024.5703	10.00	-4.66	158601.115	2.0	168358.630	1.0
1024.5929	29.01	-.45	136799.300	2.0	146556.600	3.0
1024.6069	9.00	-1.37	118427.823	1.5	128184.990	.5
1024.6339	7.01	-4.32	211410.470	3.0	221167.380	4.0
1024.6748	22.00	-4.98	37690.320	5.0	47446.840	6.0
1024.6973	22.00	-4.03	36000.144	4.0	45756.450	5.0
1024.7168	28.01	-3.48	107082.210	2.5	116838.330	1.5
1024.7283	8.02	.10	356838.000	1.0	366594.010	2.0
1024.7430	7.01	-1.59	211490.300	2.0	221246.170	1.0
1024.7556	6.00	-3.33	78340.280	1.0	88096.030	2.0
1024.8092	20.02	-3.04	373401.870	3.0	383157.110	3.0
1024.8197	18.01	-1.97	192712.000	1.5	202467.140	1.5
1024.8439	8.02	-.25	356732.000	0.0	366486.910	1.0
1024.8565	25.02	-2.00	208751.600	4.5	218506.390	3.5
1024.8723	20.02	-3.46	373401.870	3.0	383156.510	4.0
1024.8975	28.01	-1.93	101366.140	2.5	111120.540	1.5
1024.8980	10.00	-3.15	158601.115	2.0	168355.510	1.0
1024.9096	20.00	-1.30	36547.688	0.0	46301.973	1.0
1024.9101	28.01	-3.90	103653.030	3.5	113407.310	2.5
1024.9132	24.00	-1.51	35501.260	3.0	45255.510	3.0
1024.9332	26.00	-3.25	44378.420	1.0	54132.480	1.0
1024.9395	8.02	-.12	428487.000	1.0	438241.000	1.0
1024.9912	20.00	-2.04	36554.749	1.0	46308.257	2.0
1025.0194	7.01	-1.34	211410.470	3.0	221163.710	3.0
1025.0194	7.01	.09	211410.470	3.0	221163.710	4.0
1025.0341	18.01	-3.96	205079.070	2.5	214832.170	3.5
1025.0436	25.00	-3.82	51718.220	1.5	61471.230	2.5
1025.0550	22.00	-3.54	27907.026	2.0	37659.927	3.0
1025.0971	18.01	-4.12	182222.030	1.5	191974.530	1.5
1025.0972	24.00	-2.00	47630.430	6.0	57382.930	5.0
1025.1108	24.00	-3.55	37233.500	5.0	46985.870	5.0
1025.1308	18.00	-2.66	113468.550	2.0	123220.730	2.0
1025.1497	8.01	-2.30	265859.000	.5	275611.000	.5
1025.1497	8.01	-2.60	265859.000	.5	275611.000	1.5
1025.1571	23.00	-4.47	15078.250	.5	24830.180	1.5
1025.1623	22.00	-3.85	34327.960	1.0	44079.840	2.0
1025.1781	6.00	-3.17	78340.280	1.0	88092.010	1.0
1025.1969	28.00	-2.79	46522.965	2.0	56274.516	2.0
1025.2112	26.00	-4.55	36975.640	3.0	46727.055	2.0
1025.2822	23.00	-4.07	34167.840	2.5	43918.580	2.5
1025.2874	24.00	-4.49	38537.680	5.0	48288.370	4.0
1025.3179	8.01	-1.18	255827.600	4.5	265578.000	3.5
1025.3327	24.00	-3.84	38911.330	3.0	48661.590	3.0
1025.3600	15.01	-.27	130174.300	2.0	139924.300	2.0
1025.4037	18.00	-1.84	105617.315	2.0	115366.900	1.0
1025.4092	26.00	-2.61	41130.620	1.0	50880.152	1.0
1025.4178	27.00	-4.55	45111.480	4.5	54860.930	4.5
1025.4189	24.00	-3.87	45225.200	2.0	54974.640	2.0
1025.4242	18.01	-1.32	186340.480	1.5	196089.870	2.5
1025.4757	25.00	-3.46	52883.870	2.5	62632.770	3.5
1025.4757	70.00	-.99	36554.749	1.0	46303.649	2.0
1025.5072	8.01	-3.55	255829.400	3.5	265578.000	3.5
1025.5125	7.01	-.04	211415.160	2.0	221163.710	3.0
1025.5177	8.02	.49	428769.000	3.0	438517.500	4.0
1025.5535	28.01	-3.57	121194.140	2.5	130942.300	1.5
1025.6240	29.01	-1.97	135135.600	1.0	144883.090	2.0
1025.6477	7.00	.12	110402.060	4.5	120149.325	4.5
1025.6520	20.00	-1.43	36554.749	1.0	46301.973	1.0
1025.6569	7.00	-1.99	110402.060	4.5	120149.238	3.5
1025.6572	7.00	-1.99	110402.150	3.5	120149.325	4.5
1025.6663	7.00	-.17	110402.150	3.5	120149.238	3.5
1025.7041	22.00	-1.38	30039.211	5.0	39785.940	4.0
1025.7280	26.00	-3.03	44022.518	4.0	53769.020	4.0
1025.7677	26.00	-3.92	44415.057	4.0	54161.182	3.0
1025.8098	26.00	-4.10	44511.795	2.0	54257.520	2.0
1025.8304	15.00	-.61	68088.270	1.5	77833.800	1.5
1025.8667	26.00	-3.03	36975.640	3.0	46720.824	4.0
1025.9158	7.00	-1.65	110404.520	2.5	120149.238	3.5
1025.9362	17.00	-.77	91127.030	2.5	100871.554	3.5
1025.9545	24.00	-2.92	35870.530	4.0	45614.880	4.0
1025.9808	15.01	-.22	129666.100	2.0	139410.200	2.0
1026.0053	10.00	-3.21	162517.872	1.0	172261.740	1.0
1026.0684	7.00	-4.02	106758.731	.5	116502.000	.5
1026.0684	7.00	-2.19	106758.731	.5	116502.000	1.5
1026.0866	22.00	-3.33	37538.804	2.0	47281.900	3.0
1026.0988	18.01	-3.63	173347.830	1.5	183090.810	1.5
1026.1662	22.00	-3.75	18145.400	2.0	27887.740	3.0
1026.1947	18.01	-.96	186890.950	2.5	196633.020	2.5
1026.2104	9.01	.41	270508.290	2.0	280250.210	2.0
1026.2125	8.01	-3.09	255689.600	2.5	265431.500	2.5
1026.2157	18.00	-2.66	113643.260	1.0	123385.130	0.0
1026.2230	8.01	-2.43	255897.200	2.5	265639.000	3.5
1026.2336	24.00	-3.65	37244.170	4.0	46985.870	5.0
1026.2386	26.00	-2.58	44183.607	2.0	53925.260	1.0
1026.3155	14.00	-2.53	49060.601	1.0	58801.524	1.0
1026.3769	10.01	-3.13	318828.550	2.5	328568.890	1.5
1026.3925	22.00	-2.19	31628.668	5.0	41368.860	4.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1026.3959	26.00	-4.67	43321.120	6.0	53061.280	5.0
1026.4022	8.01	-3.81	255691.400	3.5	265431.500	2.5
1026.4159	18.00	-4.58	114641.040	2.0	124381.010	2.0
1026.4175	28.00	-1.64	46522.965	2.0	56262.920	3.0
1026.4201	24.00	-2.97	47621.310	3.0	57361.240	3.0
1026.4338	29.01	-3.30	128853.300	2.0	138593.100	1.0
1026.4370	24.00	-3.80	36558.550	2.0	46298.320	1.0
1026.4570	7.01	-1.08	211402.030	4.0	221141.610	3.0
1026.4760	27.00	-4.07	41528.530	5.5	51267.930	4.5
1026.5228	26.00	-4.89	17927.378	1.0	27666.334	1.0
1026.5403	17.00	-1.78	91127.030	2.5	100865.820	2.5
1026.5466	25.01	-3.29	72648.800	4.0	82387.530	3.0
1026.5887	17.00	-2.85	91127.030	2.5	100865.360	1.5
1026.6699	23.00	-4.06	28368.760	1.5	38106.320	2.5
1026.6994	18.00	-1.82	113468.550	2.0	123205.830	3.0
1026.7163	28.01	-3.21	120044.950	4.5	129782.070	3.5
1026.7861	10.00	-3.48	162517.872	1.0	172254.330	0.0
1026.7949	28.00	-4.75	47030.148	3.0	56766.523	4.0
1026.8323	18.01	.35	203197.440	3.5	212933.460	2.5
1026.8439	29.01	-2.30	108335.430	2.0	118071.340	1.0
1026.8440	18.01	-.55	186340.480	1.5	196076.390	1.5
1026.8925	10.01	-3.73	319111.700	3.5	328847.150	3.5
1026.9041	18.00	-3.07	114641.040	2.0	124376.380	1.0
1026.9041	10.01	-3.60	319111.710	4.5	328847.050	4.5
1026.9053	26.00	-4.37	48238.832	2.0	57974.160	2.0
1026.9262	9.02	-2.55	431432.270	1.5	441167.400	.5
1026.9610	8.02	-1.55	367952.200	1.0	377687.000	2.0
1026.9694	8.01	-3.77	240516.280	1.5	250251.000	.5
1026.9694	8.01	-3.11	240516.280	1.5	250251.000	1.5
1027.0243	23.01	-2.09	30267.460	2.0	40001.660	2.0
1027.0763	22.00	-1.45	29907.273	2.0	39640.980	3.0
1027.0770	9.00	-.60	116143.579	.5	125877.280	1.5
1027.1330	17.00	-2.65	87979.490	3.5	97712.660	4.5
1027.1364	20.00	-2.29	36575.119	2.0	46308.257	2.0
1027.1615	8.01	-1.42	256123.100	3.5	265856.000	2.5
1027.1626	10.01	-1.47	303071.840	2.5	312804.730	2.5
1027.2354	10.01	-2.39	303071.840	2.5	312804.040	1.5
1027.2586	25.00	-3.12	47753.990	2.5	57485.970	2.5
1027.2988	20.02	-4.34	373425.510	4.0	383157.110	3.0
1027.3293	24.00	-2.72	45255.510	3.0	54986.820	3.0
1027.3472	7.01	-3.55	211410.470	3.0	221141.610	3.0
1027.3568	24.00	-4.27	31355.210	2.0	41086.260	3.0
1027.3600	26.00	-1.24	47966.571	3.0	57697.590	4.0
1027.3620	20.02	-2.98	373425.510	4.0	383156.510	4.0
1027.3683	20.00	-.68	36575.119	2.0	46306.059	3.0
1027.3694	18.01	.38	186890.950	2.5	196621.880	3.5
1027.3884	6.00	-2.26	78529.620	3.0	88260.370	2.0
1027.4085	21.00	-4.34	14926.240	2.5	24656.800	1.5
1027.4465	8.01	-3.34	256125.800	2.5	265856.000	2.5
1027.4909	25.01	-4.88	66644.780	1.0	76374.560	2.0
1027.4993	6.00	-2.22	75255.270	2.0	84984.970	3.0
1027.5373	24.00	-1.99	47621.310	3.0	57350.650	2.0
1027.5458	24.00	-3.84	35934.020	6.0	45663.280	5.0
1027.5870	18.01	-1.58	185093.230	4.5	194822.100	3.5
1027.6030	22.00	-1.55	29912.262	3.0	39640.980	3.0
1027.6229	20.00	-1.49	36575.119	2.0	46303.649	2.0
1027.6684	17.01	-3.80	137877.600	2.0	147605.700	3.0
1027.6844	14.00	-3.34	50189.389	2.0	59917.336	2.0
1027.6947	18.01	-2.00	205104.320	4.5	214832.170	3.5
1027.7011	27.00	-2.04	42434.230	2.5	52162.020	3.5
1027.7137	27.00	-4.16	43242.950	2.5	52970.620	2.5
1027.7296	24.00	-4.03	52963.440	4.0	62690.960	5.0
1027.7317	18.01	-3.71	190507.360	1.5	200234.860	2.5
1027.7824	27.00	-3.53	44555.710	1.5	54282.730	2.5
1027.7999	20.00	-2.60	36575.119	2.0	46301.973	1.0
1027.8152	10.01	-.03	308101.610	1.5	317828.320	.5
1027.8426	7.01	-3.76	211415.160	2.0	221141.610	3.0
1027.8553	9.02	-1.99	431432.270	1.5	441158.600	1.5
1027.8627	22.00	-3.39	29914.720	3.0	39640.980	3.0
1027.8670	29.01	-2.06	110365.980	2.0	120092.200	2.0
1027.8902	18.01	-1.91	196621.880	3.5	206347.880	4.5
1027.9312	22.00	-2.58	30060.328	4.0	39785.940	4.0
1027.9885	25.02	-3.27	208650.540	3.5	218375.610	4.5
1027.9928	26.00	-3.40	44022.518	4.0	53747.547	3.0
1028.0206	26.00	-4.46	33412.706	3.0	43137.472	3.0
1028.0382	13.01	-1.73	134917.300	1.0	144641.900	0.0
1028.0539	17.00	-1.13	87979.490	3.5	97703.941	2.5
1028.0625	18.01	-1.23	194861.270	2.5	204585.640	2.5
1028.1080	24.00	-2.47	35501.260	3.0	45225.200	2.0
1028.1249	29.01	-1.58	137212.700	1.0	146936.480	2.0
1028.1280	23.00	-6.04	8578.520	2.5	18302.270	3.5
1028.1365	18.01	-2.83	190511.190	2.5	200234.860	2.5
1028.1372	7.00	-3.11	106778.337	1.5	116502.000	.5
1028.1372	7.00	-2.78	106778.337	1.5	116502.000	1.5
1028.2761	23.00	-4.31	8715.720	3.5	18438.070	4.5
1028.3026	26.00	-3.81	44664.061	2.0	54386.160	1.0
1028.3205	24.00	-4.48	31364.330	3.0	41086.260	3.0
1028.3258	23.00	-5.41	8476.200	1.5	18198.080	2.5
1028.3413	22.00	-4.80	36000.144	4.0	45721.878	4.0
1028.3555	13.01	-1.61	134917.300	1.0	144638.900	1.0
1028.3555	13.01	-1.14	134917.300	1.0	144638.900	2.0
1028.3826	26.00	-2.75	44411.137	1.0	54132.480	1.0
1028.3893	37.00	-1.84	20132.510	0.0	29856.454	0.0
1028.3904	9.01	.41	236960.830	1.0	246682.100	2.0
1028.4147	22.01	-2.98	52458.980	1.5	62180.020	1.5
1028.4189	6.00	-3.16	78340.280	1.0	88061.280	1.0
1028.4263	25.00	-3.41	52758.110	4.5	62479.040	4.5
1028.4347	7.01	-.78	211336.160	1.0	221057.010	2.0
1028.5479	9.00	-.15	115917.909	2.5	125637.690	2.5
1028.5977	25.01	-4.49	62587.500	3.0	72306.810	2.0
1028.6168	24.00	-3.78	45255.510	3.0	54974.640	2.0
1028.6718	22.00	-4.78	28952.100	4.0	38670.710	4.0
1028.7943	9.00	-.93	118405.267	.5	128122.719	1.5
1028.8147	18.01	-4.36	205194.040	1.5	214911.300	2.5
1028.8454	26.00	-2.70	44022.518	4.0	53739.488	5.0
1028.8577	20.00	-1.58	37298.287	2.0	47015.141	3.0
1028.8825	17.00	-2.81	91173.510	1.5	100890.130	2.5
1028.8944	14.00	-1.36	39683.163	0.0	49399.670	1.0
1028.9068	18.01	-.53	204951.090	3.5	214667.480	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1028.9131	26.00	-4.15	40894.972	2.0	50611.303	3.0
1028.9185	11.00	-2.62	30266.990	.5	39983.270	.5
1028.9810	18.00	-3.32	114641.040	2.0	124356.730	2.0
1029.0139	26.00	-4.53	44664.061	2.0	54379.440	3.0
1029.0329	24.00	-2.11	35398.020	4.0	45113.220	3.0
1029.0414	18.01	-3.01	196621.880	3.5	206337.000	3.5
1029.0551	18.01	-4.33	196621.880	3.5	206336.870	2.5
1029.0922	28.00	-3.06	49403.420	1.0	59118.060	2.0
1029.0964	28.01	-4.87	121050.660	2.5	130765.260	3.5
1029.1250	23.00	-4.07	21603.170	4.5	31317.500	4.5
1029.1324	27.00	-2.43	44568.470	2.5	54282.730	2.5
1029.2120	22.00	-4.39	31373.801	3.0	41087.310	3.0
1029.2310	23.00	-5.20	8412.940	.5	18126.270	1.5
1029.2543	16.01	-3.55	143488.610	.5	153201.720	1.5
1029.2977	8.01	-3.22	256143.300	3.5	265856.000	2.5
1029.3023	9.00	-.48	118427.823	1.5	128140.480	2.5
1029.3052	28.01	-3.21	100309.290	5.5	110021.920	4.5
1029.3295	8.01	-3.65	255755.800	2.5	265468.200	1.5
1029.3332	7.00	-4.41	106868.635	3.5	116581.000	2.5
1029.3578	28.00	-3.06	49327.560	3.0	59039.693	4.0
1029.4082	26.00	-3.40	44664.061	2.0	54375.719	2.0
1029.4302	25.00	-2.76	47774.520	3.5	57485.970	2.5
1029.4635	22.00	-4.90	36000.144	4.0	45711.280	4.0
1029.4663	23.00	-4.42	15078.250	.5	24789.360	.5
1029.5108	11.00	-2.32	30272.580	1.5	39983.270	.5
1029.5416	10.00	-1.30	149824.221	2.0	159534.620	1.0
1029.6688	23.01	-3.30	44159.430	2.0	53868.630	2.0
1029.7112	29.01	-4.34	136694.100	4.0	146402.900	5.0
1029.7388	22.01	-3.59	52471.480	2.5	62180.020	1.5
1029.7441	18.01	-3.31	192712.000	1.5	202420.490	.5
1029.7632	27.00	-2.95	43952.060	5.5	53660.370	5.5
1029.7961	18.00	-4.70	115366.900	1.0	125074.900	2.0
1029.7961	18.00	-4.49	114641.040	2.0	124349.040	3.0
1029.7968	20.00	-1.73	37298.287	2.0	47006.280	3.0
1029.8060	20.00	-2.64	37298.287	2.0	47006.194	2.0
1029.8831	23.00	-4.74	8412.940	.5	18120.120	.5
1029.8968	27.00	-2.58	43263.570	1.5	52970.620	2.5
1029.9074	18.01	.07	185093.230	4.5	194800.180	4.5
1029.9106	28.01	-4.11	121325.090	2.5	131032.010	2.5
1029.9243	12.00	-2.07	49346.729	1.0	59053.520	0.0
1029.9690	10.01	-4.47	319111.700	3.5	328818.070	3.5
1029.9700	10.01	-3.00	319111.710	4.5	328818.070	3.5
1029.9711	10.01	-3.14	319111.700	3.5	328818.050	2.5
1029.9876	26.00	-4.03	44551.325	3.0	54257.520	2.0
1030.0028	22.00	-6.86	7255.369	2.0	16961.420	3.0
1030.0401	18.00	-4.39	115366.900	1.0	125072.600	1.0
1030.0428	22.00	-3.92	20062.980	1.0	29768.655	2.0
1030.0581	25.00	-4.46	41932.640	3.5	51638.170	2.5
1030.0794	24.00	-3.03	45113.220	3.0	54818.550	2.0
1030.0942	28.01	-2.33	99442.860	4.5	109148.050	4.5
1030.1177	22.00	-2.25	31489.451	4.0	41194.420	3.0
1030.1374	14.00	-1.66	49188.617	2.0	58893.400	3.0
1030.2227	18.01	-1.92	196633.020	2.5	206337.000	3.5
1030.2365	18.01	-3.05	196633.020	2.5	206336.870	2.5
1030.2611	28.00	-.92	34408.574	1.0	44112.192	1.0
1030.2693	18.00	-2.28	113468.550	2.0	123172.090	1.0
1030.2885	23.00	-3.50	32660.260	2.5	42363.620	3.5
1030.3225	27.00	-2.44	44555.710	1.5	54258.750	2.5
1030.3352	25.00	-.86	57305.620	3.5	67008.540	2.5
1030.3649	18.01	-.72	194883.000	3.5	204585.640	2.5
1030.3873	37.00	-2.35	20132.510	0.0	29837.599	0.0
1030.5200	9.01	.19	236960.830	1.0	246662.010	1.0
1030.5594	17.00	-.43	90487.870	3.5	100188.680	4.5
1030.5647	18.01	-.30	189437.690	.5	199138.450	1.5
1030.5668	24.00	-2.33	45286.080	4.0	54986.820	3.0
1030.5806	10.01	-2.07	303071.840	2.5	312772.450	2.5
1030.6274	10.01	-1.39	303071.840	2.5	312772.010	3.5
1030.7357	24.00	-3.76	37205.880	3.0	46905.030	4.0
1030.7543	26.00	-2.30	37046.000	4.0	46744.975	3.0
1030.7623	13.01	-.85	138518.700	2.0	148217.600	3.0
1030.7931	22.00	-3.93	34535.040	2.0	44233.650	3.0
1030.7952	25.00	-4.46	33825.490	2.5	43524.080	3.5
1030.8027	24.00	-4.72	52963.440	4.0	62661.960	3.0
1030.8579	25.01	-4.68	66676.560	2.0	76374.560	2.0
1030.8728	23.00	-4.74	8476.200	1.5	18174.060	1.5
1030.8728	25.00	-4.95	56189.450	4.5	65887.310	5.5
1030.8761	22.00	-4.38	20209.444	2.0	29907.273	2.0
1030.9052	17.00	-2.19	90487.870	3.5	100185.426	2.5
1030.9100	18.00	-.90	113020.390	3.0	122717.900	3.0
1030.9100	18.00	-1.22	113020.390	3.0	122717.900	4.0
1030.9186	18.01	-3.61	173393.380	2.5	183090.810	1.5
1030.9430	8.02	-0.00	428606.000	2.0	438303.200	2.0
1030.9749	29.01	-2.03	136799.300	2.0	146496.200	3.0
1030.9909	18.01	-1.89	192556.840	2.5	202253.590	1.5
1030.9972	24.00	-1.88	47692.630	7.0	57389.320	6.0
1031.0079	26.00	-4.29	45428.385	4.0	55124.974	3.0
1031.0291	6.00	-2.42	75253.970	1.0	84950.360	2.0
1031.0578	28.01	-3.30	107142.210	1.5	116838.330	1.5
1031.1000	2.00	-.33	185565.000	0.0	195263.380	0.0
1031.1248	24.00	-4.20	35870.530	4.0	45566.020	3.0
1031.1493	23.01	-3.10	30306.400	3.0	40001.660	2.0
1031.1673	6.00	-3.29	75255.270	2.0	84950.360	2.0
1031.1880	9.00	-1.43	118427.823	1.5	128122.719	1.5
1031.1939	17.00	-1.83	87979.490	3.5	97674.330	2.5
1031.2024	9.02	-4.23	430374.750	2.5	440069.510	1.5
1031.2193	17.00	-.95	87979.490	3.5	97674.092	3.5
1031.2386	24.00	-3.94	47688.510	4.0	57382.930	5.0
1031.2525	12.00	-2.57	49346.729	1.0	59041.019	2.0
1031.2811	22.00	-4.44	26657.409	4.0	36351.430	5.0
1031.2929	9.01	-.29	236960.830	1.0	246654.740	0.0
1031.3035	8.01	-3.74	238731.540	1.5	248425.350	.5
1031.3197	14.00	-1.21	51612.012	0.0	61305.670	1.0
1031.3206	10.01	-1.77	303071.840	2.5	312765.490	3.5
1031.3472	17.01	-.81	140259.000	2.0	149952.400	1.0
1031.4229	22.00	-5.64	11776.806	4.0	21469.494	3.0
1031.4567	23.00	-3.62	15078.250	.5	24770.620	.5
1031.4631	17.00	-2.64	91173.510	1.5	100865.820	2.5
1031.4636	26.00	-2.37	40842.130	3.0	50534.435	3.0
1031.4690	22.00	-4.87	20126.055	3.0	29818.310	3.0
1031.5121	17.00	-3.56	91173.510	1.5	100865.360	1.5
1031.6559	28.01	-4.84	121125.410	4.5	130815.910	3.5
1031.6792	27.00	-2.16	44568.470	2.5	54258.750	2.5
1031.6824	23.00	-4.26	28313.680	.5	38003.930	1.5
1031.7048	8.02	.38	357111.000	2.0	366801.040	3.0
1031.7079	25.00	-1.92	52883.100	.5	62573.110	1.5
1031.7208	18.01	-1.45	204977.590	2.5	214667.480	2.5
1031.7899	25.00	-2.62	52883.870	1.5	62573.110	1.5
1031.7899	25.00	-4.83	52883.870	2.5	62573.110	1.5
1031.8590	26.00	-2.73	44760.739	1.0	54449.330	1.0
1031.8793	26.00	-4.77	44378.420	1.0	54066.821	2.0
1031.9103	25.01	-4.24	66686.450	3.0	76374.560	2.0
1031.9320	17.00	-.42	87979.490	3.5	97667.396	3.5
1031.9444	18.00	-2.04	113020.390	3.0	122708.180	2.0
1031.9699	18.00	-1.82	113020.390	3.0	122707.940	3.0
1031.9709	7.00	-4.39	106814.459	2.5	116502.000	1.5
1032.0115	17.00	.54	87979.490	3.5	97666.650	4.5
1032.0305	8.00	-2.54	96225.061	1.0	105912.043	1.0
1032.0305	8.00	-2.32	96225.061	1.0	105912.043	2.0
1032.0305	8.00	-3.02	96225.061	1.0	105912.043	0.0
1032.0552	25.02	-4.19	208819.640	3.5	218506.390	3.5
1032.1081	29.00	-1.47	44565.100	3.0	54251.353	3.0
1032.1137	7.00	-3.09	106477.800	.5	116164.000	.5
1032.1137	7.00	-3.27	106477.800	.5	116164.000	1.5
1032.1425	7.01	-2.98	211030.070	3.0	220716.000	3.0
1032.1484	26.00	-3.23	44551.325	3.0	54237.200	4.0
1032.1585	15.00	-1.69	66360.120	1.5	76045.900	2.5
1032.2470	23.00	-4.23	32348.890	.5	42033.840	1.5
1032.2843	8.01	-3.01	248009.100	1.5	257693.700	.5
1032.3154	26.00	-1.97	48289.852	1.0	57974.160	2.0
1032.3194	24.00	-2.83	47688.510	4.0	57372.780	4.0
1032.3630	28.00	-3.95	22102.349	4.0	31786.210	3.0
1032.4069	18.00	-1.96	114975.070	1.0	124658.520	2.0
1032.4474	7.01	-4.12	211032.930	2.0	220716.000	3.0
1032.4549	8.01	-.54	265928.000	1.5	275611.000	.5
1032.4549	8.01	-1.23	265928.000	1.5	275611.000	1.5
1032.5007	24.00	-1.19	35572.940	2.0	45255.510	3.0
1032.5263	15.00	-1.16	68088.270	1.5	77770.600	.5
1032.5328	7.00	-3.71	106758.731	.5	116441.000	.5
1032.5328	7.00	-4.02	106758.731	.5	116441.000	1.5
1032.5369	18.01	-3.27	145668.800	1.5	155351.030	1.5
1032.5465	17.00	-2.83	90487.870	3.5	100170.010	2.5
1032.5647	17.00	-1.12	90487.870	3.5	100169.840	3.5
1032.6287	6.00	-3.52	75253.970	1.0	84935.340	1.0
1032.6378	26.00	-4.70	44285.436	2.0	53966.720	2.0
1032.6468	13.01	-1.91	138536.400	3.0	148217.600	3.0
1032.6468	13.01	-.95	138536.400	3.0	148217.600	4.0
1032.6468	13.01	-1.14	138536.400	3.0	148217.600	4.0
1032.6628	18.01	-.41	190942.650	.5	200623.700	.5
1032.6895	13.01	-2.18	139588.700	3.0	149269.500	2.0
1032.6895	13.01	-3.61	139588.700	3.0	149269.500	3.0
1032.6895	13.01	-2.50	139588.700	4.0	149269.500	3.0
1032.6895	13.01	-1.59	139588.700	4.0	149269.500	3.0
1032.6895	13.01	-3.47	139588.700	4.0	149269.500	4.0
1032.6895	13.01	-3.61	139588.700	4.0	149269.500	4.0
1032.6895	13.01	-1.95	139588.700	5.0	149269.500	4.0
1032.6958	28.00	-4.76	47030.148	3.0	56710.889	2.0
1032.7069	26.00	-2.43	41018.029	2.0	50698.666	2.0
1032.7194	10.01	-1.04	308101.270	2.5	317781.790	1.5
1032.7268	28.01	-4.69	121120.880	5.5	130801.330	4.5
1032.7311	38.01	-.35	14836.240	0.0	24519.303	0.0
1032.7353	23.00	-4.66	8578.520	2.5	18258.890	2.5
1032.7556	10.01	.26	308101.610	1.5	317781.790	1.5
1032.7588	10.01	.42	308101.270	2.5	317781.420	2.5
1032.7674	6.00	-3.53	75255.270	2.0	84935.340	1.0
1032.7887	28.01	-4.16	121050.660	2.5	130730.530	2.5
1032.7951	10.01	-.71	308101.610	1.5	317781.420	2.5
1032.7983	6.00	-4.63	88198.220	2.0	97878.000	2.0
1032.8292	28.01	-1.92	108763.320	.5	118442.810	1.5
1032.8580	6.00	-2.69	75256.120	0.0	84935.340	1.0
1032.8794	24.00	-3.67	31364.330	3.0	41043.350	3.0
1032.9423	16.01	-2.17	118146.500	1.5	127824.930	.5
1032.9512	17.00	-2.37	90487.870	3.5	100166.217	3.5
1033.0130	17.00	-1.42	90487.870	3.5	100165.638	4.5
1033.0246	28.00	-1.16	33112.368	3.0	42790.027	2.0
1033.0663	7.00	-4.19	106758.731	.5	116436.000	1.5
1033.0737	7.00	-2.82	106477.800	.5	116155.000	.5
1033.0737	7.00	-2.80	106477.800	.5	116155.000	1.5
1033.1735	7.00	.87	110473.060	5.5	120149.325	4.5
1033.1895	7.00	-1.25	110473.210	4.5	120149.325	4.5
1033.1988	7.00	.81	110473.210	4.5	120149.238	3.5
1033.2039	18.00	-2.66	114975.070	1.0	124651.050	1.0
1033.2338	8.01	-3.83	255755.800	2.5	265431.500	2.5
1033.2359	25.00	-1.31	57305.620	3.5	66981.300	3.5
1033.2373	26.00	-3.26	29320.050	1.0	38995.717	1.0
1033.2626	26.01	-1.20	77861.470	4.5	87536.900	3.5
1033.2754	18.00	-.10	113020.390	3.0	122695.700	4.0
1033.2851	27.00	-2.14	41528.530	5.5	51203.750	5.5
1033.2954	9.00	-.62	118936.797	1.5	128611.920	1.5
1033.3274	26.00	-2.27	37046.000	4.0	46720.824	4.0
1033.4570	29.01	-3.82	137212.700	1.0	146886.310	1.0
1033.4634	28.01	-4.00	106283.160	2.5	115956.710	2.5
1033.4666	26.00	-3.50	44458.960	0.0	54132.480	1.0
1033.4784	7.01	-3.62	211490.300	2.0	221163.710	3.0
1033.4806	18.01	-.91	190732.970	.5	200406.360	.5
1033.5350	23.00	-4.88	8412.940	.5	18085.820	.5
1033.5468	27.00	-1.53	46872.740	3.5	56545.510	2.5
1033.5511	24.00	-1.85	47688.510	4.0	57361.240	3.0
1033.5543	18.00	-4.16	115366.900	1.0	125039.600	1.0
1033.6183	8.01	-2.81	255759.400	3.5	265431.500	2.5
1033.6252	28.00	-3.40	44565.100	3.0	54237.136	4.0
1033.6673	22.00	-1.22	29855.248	1.0	39526.890	2.0
1033.6793	24.00	-3.63	37233.500	5.0	46905.030	4.0
1033.6942	18.01	-.64	204996.090	3.5	214667.480	2.5
1033.7167	10.01	-4.04	280700.770	3.5	290371.950	2.5
1033.8533	22.00	-1.68	29971.078	4.0	39640.980	3.0
1033.8867	20.02	-2.98	373425.510	4.0	383095.100	5.0
1033.8923	26.00	-4.59	48304.623	2.0	57974.160	2.0
1033.9185	9.00	-1.98	118936.797	1.5	128606.090	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1034.0064	18.00	-2.35	114975.070	1.0	124643.540	1.0
1034.0171	25.00	-3.45	52758.110	4.5	62426.480	3.5
1034.0898	26.00	-3.95	17726.985	2.0	27394.676	3.0
1034.0931	23.01	-3.91	44200.970	1.0	53868.630	2.0
1034.1851	25.00	-3.62	46901.130	2.5	56567.930	1.5
1034.2685	27.00	-1.90	43952.060	5.5	53618.080	6.5
1034.2696	18.00	-2.90	113020.390	3.0	122686.400	2.0
1034.2769	14.00	-4.52	47351.554	2.0	57017.496	2.0
1034.3359	24.00	-3.63	31377.960	4.0	41043.350	3.0
1034.3798	23.00	-4.27	21603.170	4.5	31268.150	3.5
1034.3819	20.00	-.44	23652.304	1.0	33317.264	0.0
1034.4076	26.00	-2.39	44166.240	3.0	53830.960	3.0
1034.4323	22.00	-4.79	38544.380	3.0	48208.870	3.0
1034.5457	27.00	-2.80	42796.670	1.5	52460.100	2.5
1034.5674	7.00	-1.59	110486.010	2.5	120149.238	3.5
1034.6108	22.00	-4.88	37617.868	4.0	47280.690	5.0
1034.6279	7.00	-3.60	106778.337	1.5	116441.000	.5
1034.6279	7.00	-3.88	106778.337	1.5	116441.000	1.5
1034.6389	23.00	-3.87	32891.060	3.5	42553.620	4.5
1034.7084	20.02	-4.92	373401.870	3.0	383063.780	3.0
1034.7727	28.01	-4.31	126857.970	5.5	136519.280	4.5
1034.8011	26.00	-1.73	43499.485	4.0	53160.530	3.0
1034.8209	24.00	-4.31	37244.170	4.0	46905.030	4.0
1034.8263	25.02	-4.67	208935.880	4.5	218596.690	5.5
1034.8306	27.00	-1.84	42434.230	2.5	52095.000	3.5
1034.8381	15.00	-1.29	68183.200	1.5	77843.900	2.5
1034.8916	26.00	-4.18	36940.600	2.0	46600.800	1.0
1034.9024	15.00	-1.32	68183.200	1.5	77843.300	1.5
1034.9124	9.00	-1.47	118427.823	1.5	128087.829	2.5
1034.9259	25.01	-4.38	62587.500	3.0	72247.380	3.0
1034.9377	16.01	-3.67	143623.030	1.5	153282.800	2.5
1034.9410	7.01	-2.44	211056.260	3.0	220716.000	3.0
1034.9905	17.00	-1.01	88080.042	2.5	97739.320	1.5
1035.0089	26.00	-4.45	32873.623	4.0	42532.729	3.0
1035.0140	26.00	-3.61	45220.662	3.0	54879.720	2.0
1035.0566	16.01	-4.11	121528.200	1.5	131186.860	2.5
1035.0791	18.01	-1.44	199679.760	2.5	209338.210	3.5
1035.0845	13.01	-3.70	138559.200	4.0	148217.600	3.0
1035.0845	13.01	-2.14	138559.200	4.0	148217.600	4.0
1035.0845	13.01	-2.28	138559.200	4.0	148217.600	4.0
1035.0845	13.01	-.61	138559.200	4.0	148217.600	5.0
1035.1467	10.01	-1.73	282375.330	1.5	292033.150	2.5
1035.1635	7.00	-2.92	106778.337	1.5	116436.000	1.5
1035.1635	7.00	-2.87	106778.337	1.5	116436.000	2.5
1035.1874	25.02	-1.93	208650.540	3.5	218307.980	2.5
1035.2314	27.00	-2.89	43199.650	2.5	52856.680	3.5
1035.2625	23.00	-4.77	8715.720	3.5	18372.460	3.5
1035.2957	10.01	-.61	292651.320	1.5	302307.750	2.5
1035.3287	22.00	-4.36	38451.298	2.0	48107.420	2.0
1035.3407	10.01	-4.11	303824.230	3.5	313480.240	4.5
1035.3418	8.01	-4.07	255812.200	1.5	265468.200	.5
1035.3418	8.01	-2.49	255812.200	1.5	265468.200	1.5
1035.3450	10.01	-3.62	303824.230	3.5	313480.200	3.5
1035.3622	23.00	-4.70	32897.810	5.5	42553.620	4.5
1035.3676	7.01	-1.00	211060.240	4.0	220716.000	3.0
1035.3757	26.00	-3.45	44411.137	1.0	54066.821	2.0
1035.3799	26.00	-1.84	43499.485	4.0	53155.130	4.0
1035.3933	10.01	-2.19	303824.680	2.5	313480.200	3.5
1035.4190	24.00	-4.01	48507.560	1.0	58162.840	2.0
1035.4383	8.01	-2.32	255813.100	2.5	265468.200	1.5
1035.4458	27.00	-1.12	35450.560	3.5	45105.590	3.5
1035.4576	25.00	-4.58	35041.370	3.5	44696.290	2.5
1035.5155	18.01	-.76	200880.520	3.5	210534.900	4.5
1035.6099	20.02	-1.04	361794.080	1.0	371447.580	1.0
1035.7028	26.00	-4.58	40534.180	3.0	50186.814	2.0
1035.7333	27.00	-2.44	43263.570	1.5	52915.920	.5
1035.7430	24.00	-1.53	35572.940	2.0	45225.200	2.0
1035.7479	18.00	-2.90	111818.090	1.0	121470.304	0.0
1035.7773	29.01	-1.23	108014.660	3.0	117666.600	4.0
1035.8231	26.00	-4.48	44415.057	4.0	54066.570	4.0
1035.8274	26.00	-4.57	51103.237	5.0	60754.710	4.0
1035.8449	7.01	-3.88	211490.300	2.0	221141.610	3.0
1035.8851	7.00	-1.20	110498.390	3.5	120149.325	4.5
1035.8945	7.00	-.92	110498.390	3.5	120149.238	3.5
1035.8955	7.00	-2.60	110498.400	2.5	120149.238	3.5
1035.9138	28.00	-1.74	42621.048	3.0	52271.716	2.0
1035.9272	26.00	-1.78	48163.427	2.0	57813.970	3.0
1035.9533	28.01	-4.53	107082.210	2.5	116732.510	2.5
1035.9662	25.00	-3.66	53103.190	1.5	62753.370	2.5
1035.9780	23.00	-4.56	8476.200	1.5	18126.270	1.5
1035.9834	7.00	-2.08	95493.660	1.5	105143.680	2.5
1035.9855	8.01	-.44	265961.000	2.5	275611.000	1.5
1036.0135	28.00	-3.85	46522.965	2.0	56172.704	3.0
1036.0199	25.00	-3.64	35165.050	1.5	44814.730	1.5
1036.0513	26.00	-4.36	44511.795	2.0	54161.182	3.0
1036.0639	22.00	-4.32	39265.800	2.0	48915.070	2.0
1036.1026	8.02	-.41	356838.000	1.0	366486.910	1.0
1036.1212	22.00	-3.57	37538.804	2.0	47187.540	2.0
1036.1294	27.00	-3.73	42811.440	3.5	52460.100	2.5
1036.1444	29.01	-2.82	136336.880	1.0	145985.400	2.0
1036.2271	22.00	-4.47	34327.960	1.0	43975.710	1.0
1036.2347	23.02	-4.78	153112.600	3.5	162760.280	4.5
1036.2352	7.00	-1.18	110501.650	4.5	120149.325	4.5
1036.2445	7.00	.73	110501.650	4.5	120149.238	3.5
1036.2513	7.00	-2.20	110501.800	3.5	120149.325	4.5
1036.2606	7.00	-1.36	110501.800	3.5	120149.238	3.5
1036.2698	26.00	-3.10	44183.607	2.0	53830.960	3.0
1036.2819	24.00	-4.13	38911.330	3.0	48558.570	2.0
1036.2951	22.00	-4.26	39077.713	1.0	48724.830	1.0
1036.3184	15.00	-4.25	70689.400	3.5	80336.300	2.5
1036.3270	23.00	-4.27	28595.640	3.5	38242.460	3.5
1036.3478	22.00	-2.41	39077.713	1.0	48724.340	2.0
1036.3528	18.01	-3.08	200880.520	3.5	210527.100	2.5
1036.3904	15.00	-4.40	68088.270	1.5	77734.500	2.5
1036.3926	28.01	-4.25	121385.800	1.5	131032.010	2.5
1036.3937	7.00	-3.26	106477.800	.5	116124.000	.5
1036.3937	7.00	-3.56	106477.800	.5	116124.000	1.5
1036.4078	26.00	-2.22	43922.652	3.0	53568.720	2.0
1036.4420	27.00	-3.62	41528.530	5.5	51174.280	5.5
1036.5505	23.00	-3.60	15270.420	1.5	24915.160	1.5
1036.5634	10.00	-2.04	162830.703	3.0	172475.323	2.0
1036.5688	7.00	-2.29	95475.280	.5	105119.850	1.5
1036.5726	22.00	-4.40	26564.385	3.0	36208.920	4.0
1036.5741	7.00	-2.80	106980.480	.5	116625.000	1.5
1036.5774	25.00	-4.74	52870.100	3.5	62514.590	2.5
1036.5999	18.01	-.97	190507.360	1.5	200151.640	1.5
1036.6075	28.01	-3.07	107142.210	1.5	116786.420	.5
1036.6118	23.00	-4.20	28462.150	2.5	38106.320	2.5
1036.6129	25.00	-3.76	53109.210	2.5	62753.370	2.5
1036.6215	24.00	-4.35	48558.570	2.0	58202.650	3.0
1036.6387	23.00	-4.72	8476.200	1.5	18120.120	.5
1036.7214	28.01	-3.74	120199.180	1.5	129842.330	2.5
1036.8075	27.00	-1.99	41918.410	3.5	51560.760	2.5
1036.8870	27.00	-2.80	41528.530	5.5	51170.140	4.5
1036.9451	10.01	-.93	294333.220	.5	303974.290	1.5
1036.9860	28.01	-4.29	121050.660	2.5	130691.350	1.5
1037.0118	18.01	-1.38	190511.190	2.5	200151.640	1.5
1037.0408	22.01	-3.48	52631.070	3.5	62271.250	2.5
1037.0791	26.00	-4.98	44285.436	2.0	53925.260	1.0
1037.1180	26.00	-3.73	40894.972	2.0	50534.435	3.0
1037.1264	14.00	-.64	39760.285	1.0	49399.670	1.0
1037.1323	20.01	-2.77	78034.390	2.5	87673.720	2.5
1037.1323	20.01	-1.47	78034.390	3.5	87673.720	2.5
1037.1746	26.00	-4.06	29356.780	2.0	38995.717	1.0
1037.1850	28.01	-3.57	120203.490	2.5	129842.330	2.5
1037.2033	6.00	-3.42	78199.070	2.0	87837.740	1.0
1037.2033	6.00	-2.33	78199.070	2.0	87837.740	2.0
1037.2195	8.00	-2.66	99092.980	1.0	108731.500	0.0
1037.2195	8.00	-2.31	99092.980	1.0	108731.500	1.0
1037.2195	8.00	-2.42	99092.980	1.0	108731.500	2.0
1037.2418	22.00	-3.43	37824.748	4.0	47463.060	4.0
1037.2464	20.02	-4.85	373425.510	4.0	383063.780	3.0
1037.2862	28.01	-3.81	120144.170	2.5	129782.070	3.5
1037.2918	8.00	-2.79	99093.653	2.0	108731.500	1.0
1037.2918	8.00	-2.20	99093.653	2.0	108731.500	2.0
1037.2918	8.00	-1.99	99093.653	2.0	108731.500	3.0
1037.2926	17.00	-1.86	91538.500	1.5	101176.340	2.5
1037.2937	28.01	-4.57	67694.640	2.5	77332.470	2.5
1037.3034	10.01	-2.08	303824.230	3.5	313461.970	4.5
1037.3249	20.01	-1.63	78034.390	2.5	87671.930	1.5
1037.3454	28.01	-4.71	121178.560	3.5	130815.910	3.5
1037.3572	25.01	-4.78	94230.900	2.0	103868.140	1.0
1037.4206	8.00	-3.14	99094.849	3.0	108731.500	2.0
1037.4206	8.00	-2.30	99094.849	3.0	108731.500	3.0
1037.4206	8.00	-1.71	99094.849	3.0	108731.500	4.0
1037.4229	28.01	-4.00	121120.880	5.5	130757.510	4.5
1037.4832	10.01	-1.70	280947.100	1.5	290583.170	1.5
1037.5155	27.00	-2.08	42434.230	2.5	52070.000	2.5
1037.5284	17.00	-3.99	91906.790	2.5	101542.440	1.5
1037.5585	28.01	-4.15	121180.540	4.5	130815.910	3.5
1037.5801	23.00	-4.19	28368.760	1.5	38003.930	1.5
1037.5984	8.02	-.60	428606.000	2.0	438241.000	1.0
1037.6038	24.00	-3.75	53011.650	1.0	62646.600	2.0
1037.6587	24.00	-4.65	37244.170	4.0	46878.610	3.0
1037.6705	28.01	-2.51	110021.920	4.5	119656.250	3.5
1037.7018	22.00	-1.22	34947.120	1.0	44581.160	2.0
1037.7405	6.00	-2.10	69689.480	1.0	79323.160	0.0
1037.7772	10.01	-2.70	303824.230	3.5	313457.570	3.5
1037.7804	10.01	-4.01	303824.230	3.5	313457.540	2.5
1037.8257	10.01	-4.13	303824.680	2.5	313457.570	3.5
1037.8623	28.00	-1.02	32973.414	4.0	42605.964	3.0
1037.8709	14.00	-4.33	49399.670	1.0	59032.140	2.0
1037.9011	26.00	-4.51	17927.378	1.0	27559.568	2.0
1037.9455	22.00	-4.83	27907.026	2.0	37538.804	2.0
1038.0088	28.00	-4.22	48817.600	1.0	58448.790	0.0
1038.0261	24.00	-2.22	48661.590	3.0	58292.620	4.0
1038.0508	15.01	.47	130174.300	2.0	139805.100	3.0
1038.0595	25.00	-2.19	52883.870	1.5	62514.590	2.5
1038.0595	25.00	-2.11	52883.870	2.5	62514.590	2.5
1038.0690	26.00	-4.60	44243.668	5.0	53874.300	5.0
1038.0778	24.00	-4.80	31352.420	1.0	40982.970	2.0
1038.0853	9.00	-.05	119081.820	.5	128712.300	1.5
1038.1479	25.02	-3.46	208743.100	2.5	218373.000	1.5
1038.1479	13.01	-1.32	135009.000	0.0	144638.900	1.0
1038.1587	13.01	-1.43	135012.100	1.0	144641.900	0.0
1038.2126	6.00	-2.65	69689.480	1.0	79318.780	1.0
1038.2147	25.00	-4.83	53124.090	3.5	62753.370	2.5
1038.2147	15.00	-.77	66544.120	2.5	76173.400	3.5
1038.2234	7.00	-3.64	106477.800	.5	116107.000	.5
1038.2234	7.00	-3.14	106477.800	.5	116107.000	1.5
1038.2238	22.00	-3.05	33700.874	4.0	43330.070	5.0
1038.2288	28.01	-3.79	127331.600	2.5	136960.750	2.5
1038.2298	27.00	-3.06	23152.570	3.5	32781.710	2.5
1038.2484	7.00	-3.89	106996.032	1.5	116625.000	1.5
1038.2484	7.00	-3.01	106996.032	1.5	116625.000	2.5
1038.2557	24.00	-2.50	35572.940	2.0	45201.840	1.0
1038.2859	28.01	-3.02	130205.620	5.5	139834.240	6.5
1038.3193	23.00	-4.35	15270.420	1.5	24898.730	2.5
1038.3204	29.01	-.99	136799.300	2.0	146427.600	1.0
1038.3582	6.00	-3.05	78199.070	2.0	87827.020	2.0
1038.3668	6.00	-1.92	78199.070	2.0	87826.940	3.0
1038.3786	24.00	-4.13	31355.210	2.0	40982.970	2.0
1038.3894	18.01	-1.77	190511.190	2.5	200138.850	3.5
1038.4822	13.01	-1.92	135012.100	1.0	144638.900	1.0
1038.4822	13.01	-1.44	135012.100	1.0	144638.900	2.0
1038.4928	14.00	-3.86	47351.554	2.0	56978.256	1.0
1038.5101	7.00	-3.61	106814.459	2.5	116441.000	1.5
1038.5101	7.00	-2.53	106814.459	2.5	116441.000	2.5
1038.5253	23.00	-4.29	28313.680	.5	37940.080	.5
1038.5448	17.00	-3.73	91906.790	2.5	101533.010	2.5
1038.5469	8.02	-.10	428769.000	3.0	438395.200	3.0
1038.5480	7.00	-2.67	95493.660	1.5	105119.850	1.5
1038.5491	17.00	-3.83	91906.790	2.5	101532.970	1.5
1038.7088	27.00	-3.44	44658.030	1.5	54282.730	2.5
1038.7368	24.00	-2.03	53037.520	2.0	62661.960	3.0
1038.7415	26.00	-4.60	44676.963	4.0	54301.360	4.0
1038.7757	14.00	-3.99	53362.240	3.0	62986.320	2.0
1038.7833	25.02	-2.35	208751.600	4.5	218375.610	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1038.7952	17.00	-.31	88080.042	2.5	97703.941	2.5
1038.8277	17.00	-1.33	88080.042	2.5	97703.640	1.5
1038.8675	26.00	-2.48	43922.652	3.0	53545.882	3.0
1038.8923	8.01	-2.18	265988.000	2.5	275611.000	1.5
1038.9473	14.01	-1.05	118523.120	1.5	128145.610	2.5
1038.9549	14.01	-.90	118523.190	2.5	128145.610	3.5
1038.9549	14.01	-2.20	118523.190	2.5	128145.610	2.5
1038.9560	26.00	-2.49	44826.920	0.0	54449.330	1.0
1038.9711	24.00	-3.94	36552.130	3.0	46174.400	3.0
1038.9754	6.00	-3.29	78215.510	3.0	87837.740	2.0
1039.0032	22.00	-3.66	37659.927	3.0	47281.900	3.0
1039.0499	7.00	-3.24	106814.459	2.5	116436.000	1.5
1039.0499	7.00	-2.76	106814.459	2.5	116436.000	2.5
1039.0683	6.00	-4.60	69689.480	1.0	79310.850	2.0
1039.0738	22.00	-3.41	12118.394	4.0	21739.713	5.0
1039.1266	6.00	-2.21	78199.070	2.0	87819.900	3.0
1039.1423	26.00	-3.76	44511.795	2.0	54132.480	1.0
1039.1838	12.01	-1.10	93799.700	2.5	103420.000	1.5
1039.1947	24.00	-3.65	24277.060	0.0	33897.260	1.0
1039.2011	28.01	-4.64	121090.710	.5	130710.850	.5
1039.2162	12.01	-.95	93799.700	3.5	103419.700	2.5
1039.2162	12.01	-2.25	93799.700	2.5	103419.700	2.5
1039.2162	13.01	-1.44	135018.900	2.0	144638.900	2.0
1039.2162	13.01	-.69	135018.900	2.0	144638.900	3.0
1039.2162	13.01	-2.62	135018.900	2.0	144638.900	1.0
1039.2356	22.00	-8.72	7255.369	2.0	16875.190	2.0
1039.2549	17.00	-3.23	74865.667	.5	84485.309	1.5
1039.2576	22.00	-2.60	29907.273	2.0	39526.890	2.0
1039.2605	18.01	.20	186470.280	1.5	196089.870	2.5
1039.2638	23.00	-4.30	8578.520	2.5	18198.080	2.5
1039.2768	28.01	-4.21	120222.890	1.5	129842.330	2.5
1039.2919	8.01	-3.75	255812.200	1.5	265431.500	2.5
1039.2924	26.00	-4.25	48382.585	5.0	58001.880	6.0
1039.3383	24.00	-4.56	31352.420	1.0	40971.290	2.0
1039.3437	29.01	-2.50	136336.880	1.0	145955.700	1.0
1039.3632	24.00	-3.84	31364.330	3.0	40982.970	2.0
1039.3892	8.01	-3.66	255813.100	2.5	265431.500	2.5
1039.3964	18.00	-2.60	113643.260	1.0	123261.593	2.0
1039.4331	28.00	-1.35	42653.723	2.0	52271.716	2.0
1039.4724	6.00	-3.38	88260.370	2.0	97878.000	2.0
1039.4853	17.00	-2.86	91906.790	2.5	101524.300	2.5
1039.4982	17.00	-.88	91906.790	2.5	101524.180	3.5
1039.5113	28.01	-4.81	121325.090	2.5	130942.360	1.5
1039.5177	28.01	-4.08	121325.090	2.5	130942.300	1.5
1039.5718	24.00	-3.76	45201.840	1.0	54818.550	2.0
1039.5811	26.00	-3.74	17550.180	3.0	27166.804	4.0
1039.6053	29.01	-1.08	136799.300	2.0	146415.700	2.0
1039.6399	24.00	-4.64	31355.210	2.0	40971.290	2.0
1039.6760	22.00	-1.52	6842.964	5.0	16458.710	6.0
1039.7135	28.00	-2.33	42656.317	1.0	52271.716	2.0
1039.7588	26.00	-2.45	44760.739	1.0	54375.719	2.0
1039.7599	17.00	-2.97	91906.790	2.5	101521.760	3.5
1039.7654	16.01	-1.66	115870.400	1.5	125485.320	.5
1039.7850	18.00	-2.22	113020.390	3.0	122635.128	2.0
1039.7969	22.00	-3.18	29912.262	3.0	39526.890	2.0
1039.8216	29.01	-3.22	139028.200	2.0	148642.600	2.0
1039.8237	25.00	-3.96	47774.520	3.5	57388.900	4.5
1039.8648	27.00	-1.67	41528.530	5.5	51142.530	6.5
1039.8724	22.00	-2.50	24921.110	1.0	34535.040	2.0
1039.8940	27.00	-2.93	43242.950	2.5	52856.680	3.5
1039.9081	23.00	-4.29	32456.450	1.5	42070.050	2.5
1039.9308	12.01	-1.70	103419.700	2.5	113033.090	1.5
1039.9373	22.01	-4.30	53554.900	2.5	63168.230	2.5
1039.9632	12.01	-2.66	103420.000	1.5	113033.090	1.5
1040.0163	8.01	-2.44	248185.300	2.5	257797.900	1.5
1040.0325	28.01	-4.70	118379.110	2.5	127991.560	3.5
1040.0611	28.00	-1.13	42585.296	4.0	52197.482	3.0
1040.0628	22.00	-2.03	29914.720	3.0	39526.890	2.0
1040.0855	24.00	-2.52	35501.260	3.0	45113.220	3.0
1040.1104	18.00	-2.27	113643.260	1.0	123254.990	1.0
1040.1288	7.00	-2.96	95532.120	2.5	105143.680	2.5
1040.1342	6.00	-3.89	78215.510	3.0	87827.020	2.0
1040.1429	6.00	-1.89	78215.510	3.0	87826.940	3.0
1040.1516	18.01	-.51	191012.350	1.5	200623.700	.5
1040.1613	18.01	-3.27	205056.220	1.5	214667.480	2.5
1040.1725	26.00	-4.93	24335.764	2.0	33946.920	2.0
1040.1786	15.00	-3.40	70689.400	3.5	80300.500	3.5
1040.2197	24.00	-4.45	24286.540	1.0	33897.260	1.0
1040.2435	13.01	-1.70	139588.700	4.0	149199.200	3.0
1040.2435	13.01	-2.46	139588.700	4.0	149199.200	3.0
1040.2435	13.01	-3.48	139588.700	3.0	149199.200	3.0
1040.2706	12.01	-1.96	103420.000	1.5	113030.250	.5
1040.3014	28.00	-2.03	45122.460	1.0	54732.425	2.0
1040.3131	26.00	-3.77	44551.325	3.0	54161.182	3.0
1040.3388	23.00	-5.76	8476.200	1.5	18085.820	.5
1040.3702	26.01	-.11	77861.470	4.5	87470.800	4.5
1040.3832	20.02	-1.76	350779.470	3.0	360388.680	3.0
1040.3973	24.00	-2.21	53037.520	2.0	62646.600	2.0
1040.4009	14.00	-2.13	54185.264	1.0	63794.310	2.0
1040.4124	25.00	-2.85	52870.100	3.5	62479.040	4.5
1040.4173	22.00	-3.51	18141.229	5.0	27750.124	5.0
1040.4297	29.01	-4.83	115639.020	2.0	125247.800	2.0
1040.4851	7.00	-3.15	106758.731	.5	116367.000	.5
1040.4851	7.00	-2.46	106758.731	.5	116367.000	1.5
1040.4865	14.00	-1.27	54185.264	1.0	63793.520	1.0
1040.5012	6.00	-1.74	69710.660	2.0	79318.780	1.0
1040.5446	9.01	-.50	246654.740	0.0	256262.460	1.0
1040.5627	22.00	-3.60	38451.298	2.0	48058.850	1.0
1040.6225	13.01	-1.44	134917.300	1.0	144524.300	1.0
1040.6561	24.00	-1.41	35618.510	1.0	45225.200	2.0
1040.6561	10.01	-2.06	303237.910	1.5	312844.600	1.5
1040.7037	14.00	-.81	53362.240	3.0	62966.490	4.0
1040.7102	6.00	-4.57	78529.620	3.0	88135.810	3.0
1040.7189	18.01	-.61	186470.280	1.5	196076.390	1.5
1040.7547	27.00	-4.09	44183.340	4.5	53789.120	3.5
1040.7644	10.01	-3.04	303237.910	1.5	312843.600	.5
1040.7763	28.01	-4.26	68131.210	3.5	77736.790	4.5
1040.7872	10.01	-3.58	292451.780	1.5	302057.260	.5
1040.7915	27.00	-2.16	44183.340	4.5	53788.780	4.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1040.8652	23.00	-4.74	27470.880	3.5	37075.640	4.5
1040.8945	6.00	-1.68	78215.510	3.0	87820.000	4.0
1040.9021	28.01	-2.21	108368.050	2.5	117972.470	3.5
1040.9053	6.00	-2.88	78215.510	3.0	87819.900	3.0
1040.9056	7.00	-4.54	110544.850	2.5	120149.238	3.5
1040.9183	24.00	-4.12	48558.570	2.0	58162.840	2.0
1040.9443	22.00	-4.46	18061.540	1.0	27665.570	1.0
1041.0212	18.01	-4.86	173347.830	1.5	182951.150	.5
1041.0538	18.01	-.42	190507.360	1.5	200110.380	.5
1041.0560	29.01	-2.61	139028.200	2.0	148631.200	3.0
1041.0722	24.00	-4.16	45201.840	1.0	54804.690	1.0
1041.0798	26.00	-2.21	44166.240	3.0	53769.020	4.0
1041.0874	6.00	-3.29	78731.270	1.0	88333.980	0.0
1041.0993	24.00	-3.96	37244.170	4.0	46846.770	3.0
1041.1468	10.00	-2.91	163657.268	1.0	173259.430	1.0
1041.1483	22.00	-4.68	26494.322	2.0	36096.470	3.0
1041.1536	8.01	-2.06	255829.400	3.5	265431.500	2.5
1041.1677	9.02	-4.66	457376.180	.5	466978.150	1.5
1041.3032	27.00	-3.75	44658.030	1.5	54258.750	2.5
1041.3249	7.00	-3.10	106980.480	.5	116581.000	.5
1041.3249	7.00	-4.02	106980.480	.5	116581.000	1.5
1041.3282	24.01	-4.75	74718.050	1.5	84318.540	1.5
1041.3324	9.01	-.02	246662.010	1.0	256262.460	1.0
1041.3607	6.00	-3.10	69710.660	2.0	79310.850	2.0
1041.4865	27.00	-2.18	42434.230	2.5	52033.260	1.5
1041.4913	14.00	-2.19	53387.334	1.0	62986.320	2.0
1041.5304	14.00	-3.12	53387.334	1.0	62985.960	1.0
1041.5710	22.00	-4.43	20062.980	1.0	29661.232	1.0
1041.5992	10.00	-2.62	163657.268	1.0	173255.260	0.0
1041.6087	26.00	-3.45	45281.816	2.0	54879.720	2.0
1041.6136	22.00	-3.81	31489.451	4.0	41087.310	3.0
1041.6309	15.01	.51	131353.300	2.0	140951.000	3.0
1041.6461	6.00	-3.02	75253.970	1.0	84851.530	1.0
1041.6547	27.00	-4.03	23184.230	2.5	32781.710	2.5
1041.6635	15.00	-2.36	68246.500	2.5	77843.900	2.5
1041.6667	24.00	-3.14	24299.890	2.0	33897.260	1.0
1041.6796	28.00	-2.96	49032.589	2.0	58629.840	2.0
1041.6797	18.01	-1.76	200880.520	3.5	210477.770	3.5
1041.6960	24.00	-1.94	53073.900	3.0	62671.000	4.0
1041.7055	26.00	-2.78	44243.668	5.0	53840.680	6.0
1041.7111	28.00	-2.96	49032.589	2.0	58629.550	3.0
1041.7277	9.00	-.46	116040.883	1.5	125637.690	2.5
1041.7285	15.00	-4.48	68246.500	2.5	77843.300	1.5
1041.7427	24.00	-2.24	36577.730	4.0	46174.400	3.0
1041.7871	6.00	-3.05	75255.270	2.0	84851.530	1.0
1041.8501	15.00	-.69	67113.820	2.5	76709.500	3.5
1041.8653	23.00	-4.71	8578.520	2.5	18174.060	1.5
1041.8697	24.00	-3.54	47793.820	5.0	57389.320	6.0
1041.8784	8.00	-2.51	99092.980	1.0	108688.400	2.0
1041.8795	6.00	-4.83	75256.120	0.0	84851.530	1.0
1041.9109	27.00	-1.78	36329.860	2.5	45924.980	3.5
1041.9370	10.01	-2.66	294333.220	.5	303928.100	.5
1041.9468	22.00	-3.98	18145.400	2.0	27740.190	2.0
1041.9515	8.00	-2.29	99093.653	2.0	108688.400	2.0
1041.9892	8.01	-1.63	255983.600	4.5	265578.000	3.5
1042.0013	17.00	-.55	88080.042	2.5	97674.330	2.5
1042.0272	17.00	-.17	88080.042	2.5	97674.092	3.5
1042.0641	22.00	-3.64	39265.800	2.0	48859.510	1.0
1042.0716	10.01	-2.83	280989.530	1.5	290583.170	1.5
1042.0813	8.00	-2.14	99094.849	3.0	108688.400	2.0
1042.0913	26.00	-3.02	44664.061	2.0	54257.520	2.0
1042.1032	24.00	-2.83	45225.200	2.0	54818.550	2.0
1042.1390	16.01	-1.70	115892.300	.5	125485.320	.5
1042.1618	10.01	-1.10	282375.330	1.5	291968.140	.5
1042.1672	14.00	-3.55	53362.240	3.0	62955.000	2.0
1042.2205	18.01	-3.28	192556.840	2.5	202149.110	2.5
1042.2206	7.00	-3.73	106758.731	.5	116351.000	1.5
1042.2259	14.00	-2.53	53362.240	3.0	62954.460	3.0
1042.2325	28.01	-3.85	120250.170	3.5	129842.330	2.5
1042.2466	23.01	-3.89	44159.430	2.0	53751.460	1.0
1042.2640	27.00	-2.77	41968.890	2.5	51560.760	2.5
1042.2955	29.01	-3.76	115639.020	2.0	125230.600	3.0
1042.3042	26.00	-4.26	21715.735	5.0	31307.235	4.0
1042.3758	26.00	-3.28	24772.019	1.0	34362.860	1.0
1042.3998	29.01	.08	136336.880	1.0	145927.500	2.0
1042.4270	22.00	-4.27	37690.320	5.0	47280.690	5.0
1042.4346	28.01	-3.91	107142.210	1.5	116732.510	2.5
1042.5042	25.00	-2.03	46901.130	2.5	56490.790	2.5
1042.5371	18.00	-2.92	111667.870	0.0	121257.227	1.0
1042.5520	14.00	-1.21	54205.090	2.0	63794.310	2.0
1042.5553	24.00	-2.12	48558.570	2.0	58147.760	3.0
1042.5596	18.01	-2.79	194996.490	1.5	204585.640	2.5
1042.5640	24.00	-3.26	47793.820	5.0	57382.930	5.0
1042.5651	28.00	-3.84	49403.420	1.0	58992.520	2.0
1042.6053	28.01	-3.28	126738.820	1.5	136327.550	1.5
1042.6126	7.00	-3.19	106778.337	1.5	116367.000	.5
1042.6126	7.00	-3.07	106778.337	1.5	116367.000	1.5
1042.6126	7.00	-2.32	106778.337	1.5	116367.000	2.5
1042.6245	9.00	-.25	118936.797	1.5	128525.350	2.5
1042.6379	14.00	-1.66	54205.090	2.0	63793.520	1.0
1042.6401	18.01	-1.22	205079.070	2.5	214667.480	2.5
1042.6503	14.00	-.36	54185.264	1.0	63773.580	2.0
1042.6781	24.00	-3.17	53073.900	3.0	62661.960	3.0
1042.6922	7.00	-3.78	107037.069	2.5	116625.000	1.5
1042.6922	7.00	-3.56	107037.069	2.5	116625.000	2.5
1042.7141	7.00	-4.86	95532.120	2.5	105119.850	1.5
1042.7488	28.01	-3.78	106369.300	1.5	115956.710	2.5
1042.7550	17.00	.09	88080.042	2.5	97667.396	3.5
1042.7804	28.01	-3.30	106283.160	2.5	115870.280	2.5
1042.8180	22.00	-4.89	15108.121	3.0	24694.895	4.0
1042.8424	23.00	-4.20	8715.720	3.5	18302.270	3.5
1042.8496	9.00	-1.76	118936.797	1.5	128523.280	1.5
1042.9239	15.01	-3.79	132372.600	1.0	141958.400	1.0
1043.0145	7.00	-2.42	106996.032	1.5	116581.000	.5
1043.0145	7.00	-2.09	106996.032	1.5	116581.000	1.5
1043.0145	7.00	-2.08	106996.032	1.5	116581.000	2.5
1043.0382	25.00	-3.91	34938.700	4.5	44523.450	3.5
1043.0720	25.00	-4.60	42053.730	2.5	51638.170	2.5
1043.0807	28.01	-2.99	106007.890	2.5	115592.250	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1043.0992	18.01	-2.51	200880.520	3.5	210464.710	2.5
1043.1090	10.01	-2.62	312763.910	4.5	322348.010	3.5
1043.1090	10.01	-1.64	312763.910	4.5	322348.010	4.5
1043.1826	9.00	-.95	118936.797	1.5	128520.220	.5
1043.1884	26.02	-4.82	189679.070	3.0	199262.440	3.0
1043.1895	20.02	-2.40	350805.320	4.0	360388.680	3.0
1043.1928	24.00	-1.68	35618.510	1.0	45201.840	1.0
1043.2561	10.00	-2.59	158795.992	1.0	168378.740	2.0
1043.2562	10.00	-2.38	162899.113	2.0	172481.860	1.0
1043.2613	15.00	-.46	68260.600	.5	77843.300	1.5
1043.2733	23.00	-4.68	21646.390	3.5	31228.980	2.5
1043.2809	10.01	-1.20	312765.490	3.5	322348.010	4.5
1043.3038	28.01	-3.88	105499.050	3.5	115081.360	4.5
1043.3376	17.01	-2.73	131768.000	2.0	141350.000	3.0
1043.3702	17.02	-4.42	194959.500	2.5	204541.200	2.5
1043.3866	23.01	-2.95	30613.970	4.0	40195.520	3.0
1043.4127	25.00	-3.48	35114.980	2.5	44696.290	2.5
1043.4130	26.00	-4.00	44166.240	3.0	53747.547	3.0
1043.4405	26.00	-3.56	40842.130	3.0	50423.185	4.0
1043.4832	7.00	-2.41	106778.337	1.5	116359.000	2.5
1043.4844	22.00	-3.61	30060.328	4.0	39640.980	3.0
1043.4900	77.00	-3.69	45688.150	2.5	55268.750	3.5
1043.5162	9.01	.20	246682.100	2.0	256262.460	1.0
1043.5387	26.00	-2.12	38175.332	3.0	47755.485	3.0
1043.6109	24.00	-4.23	45225.200	2.0	54804.690	1.0
1043.6371	23.00	-3.01	34486.800	2.5	44066.050	3.5
1043.6687	24.00	-1.96	47793.820	5.0	57372.780	4.0
1043.7188	29.01	-2.38	141204.100	3.0	150782.600	2.0
1043.7226	22.00	-3.67	26772.965	5.0	36351.430	5.0
1043.7308	24.00	-3.55	24093.160	2.0	33671.550	3.0
1043.7351	24.00	-2.88	47772.300	1.0	57350.650	2.0
1043.7853	24.00	-4.72	31352.420	1.0	40930.310	1.0
1043.8311	18.00	-2.08	113643.260	1.0	123220.730	2.0
1043.8341	22.00	-3.69	18037.225	4.0	27614.667	4.0
1043.8398	23.00	-4.87	32456.450	1.5	42033.840	1.5
1043.8823	6.00	-2.87	78249.940	4.0	87826.940	3.0
1043.8855	28.01	-4.85	121180.540	4.5	130757.510	4.5
1043.9028	22.00	-3.72	37617.868	4.0	47194.680	4.0
1043.9213	20.00	-.86	36731.615	1.0	46308.257	2.0
1043.9440	28.00	-.48	42621.048	3.0	52197.482	3.0
1043.9684	10.00	-2.68	162899.113	2.0	172475.323	2.0
1043.9913	10.01	-1.34	312772.010	3.5	322348.010	3.5
1043.9913	10.01	-.79	312772.010	3.5	322348.010	4.5
1044.0098	18.00	-3.26	114805.180	2.0	124381.010	2.0
1044.0251	28.01	-4.89	121456.320	1.5	131032.010	2.5
1044.0392	10.01	-3.46	312772.450	2.5	322348.010	3.5
1044.0393	28.01	-2.09	121325.090	2.5	130900.650	2.5
1044.0491	18.01	-.65	181594.050	2.5	191169.520	1.5
1044.0851	24.00	-2.27	47786.100	2.0	57361.240	3.0
1044.0853	26.00	-4.64	48238.832	2.0	57813.970	3.0
1044.0894	24.00	-4.55	31355.210	2.0	40930.310	1.0
1044.1341	10.01	-1.86	280797.260	2.5	290371.950	2.5
1044.1355	26.00	-4.37	48122.913	3.0	57697.590	4.0
1044.1472	14.00	-1.75	53362.240	3.0	62936.810	4.0
1044.1603	27.00	-4.78	46002.830	2.5	55577.280	1.5
1044.1767	17.01	-2.85	161634.900	2.0	171209.200	2.0
1044.2101	26.00	-3.71	51103.237	5.0	60677.230	5.0
1044.2148	27.00	-2.75	23207.760	1.5	32781.710	2.5
1044.2159	22.00	-3.78	39265.800	2.0	48839.740	3.0
1044.2607	18.01	-.90	190106.230	1.5	199679.760	2.5
1044.2617	28.01	-3.44	120268.810	3.5	129842.330	2.5
1044.2618	14.00	-2.11	53362.240	3.0	62935.760	3.0
1044.2726	24.00	-1.91	53117.540	4.0	62690.960	5.0
1044.3512	24.00	-2.58	53073.900	3.0	62646.600	2.0
1044.3552	7.00	-2.67	106778.337	1.5	116351.000	1.5
1044.3566	27.00	-2.79	43199.650	2.5	52772.300	2.5
1044.3708	27.00	-3.99	43130.240	.5	52702.760	1.5
1044.3877	7.00	-3.03	106868.635	3.5	116441.000	2.5
1044.4159	22.00	-4.38	37622.573	3.0	47194.680	4.0
1044.4238	20.00	-1.83	36731.615	1.0	46303.649	2.0
1044.4603	18.01	.53	199679.760	2.5	209251.460	3.5
1044.4788	22.01	-3.61	53596.700	1.5	63168.230	2.5
1044.4824	28.00	-4.77	47139.392	2.0	56710.889	2.0
1044.4900	22.00	-3.24	26494.322	2.0	36065.750	3.0
1044.5040	13.01	-3.56	138518.700	2.0	148090.000	2.0
1044.5040	13.01	-2.82	138518.700	2.0	148090.000	1.0
1044.5149	18.00	-4.40	114805.180	2.0	124376.380	1.0
1044.5432	28.01	-4.15	106620.530	3.5	116191.470	2.5
1044.5574	28.01	-3.48	110573.360	2.5	120144.170	2.5
1044.5760	28.01	-2.98	115081.360	4.5	124652.000	4.5
1044.5902	25.02	-3.50	208935.880	4.5	218506.390	3.5
1044.6065	28.01	-3.56	120271.970	2.5	129842.330	2.5
1044.6068	20.00	-3.69	36731.615	1.0	46301.973	1.0
1044.6393	6.00	-1.56	78249.940	4.0	87820.000	4.0
1044.6501	6.00	-3.13	78249.940	4.0	87819.900	3.0
1044.7244	28.01	-3.68	129271.720	3.5	138841.000	3.5
1044.7452	27.00	-1.40	43295.320	4.5	52864.410	4.5
1044.7474	27.00	-3.73	44857.570	.5	54426.640	1.5
1044.7570	26.00	-4.24	48702.518	4.0	58271.500	5.0
1044.7779	18.01	-.58	199679.760	2.5	209248.550	2.5
1044.8107	14.00	-2.27	54205.090	2.0	63773.580	2.0
1044.8424	14.00	-.50	54205.090	2.0	63773.290	3.0
1044.8592	26.00	-3.38	41130.620	1.0	50698.666	2.0
1044.8828	29.01	-4.85	115662.770	4.0	125230.600	3.0
1044.8833	22.00	-3.16	26564.385	3.0	36132.210	4.0
1044.8937	28.01	-3.12	127331.600	2.5	136899.330	1.5
1044.9007	14.00	-2.01	53387.334	1.0	62955.000	2.0
1044.9336	7.00	-3.76	106868.635	3.5	116436.000	2.5
1044.9895	22.00	-2.94	31914.277	5.0	41481.130	5.0
1044.9931	10.01	-1.85	303237.910	1.5	312804.730	2.5
1044.9931	6.00	-1.56	69744.030	3.0	79310.850	2.0
1045.0127	28.01	-1.27	115085.360	3.5	124652.000	4.5
1045.0291	18.01	-1.63	200880.520	3.5	210447.010	3.5
1045.0684	10.01	-1.63	303237.910	1.5	312804.040	1.5
1045.1985	28.01	-2.81	70358.940	4.5	79923.880	4.5
1045.2035	20.00	-2.68	38192.392	1.0	47757.286	2.0
1045.2039	28.01	-4.86	122270.050	3.5	131834.940	2.5
1045.2050	25.02	-4.26	208743.100	2.5	218307.980	2.5
1045.2138	23.00	-.74	32988.820	3.5	42553.620	4.5
1045.2411	24.00	-2.83	47786.100	2.0	57350.650	2.0
1045.2586	25.02	-2.20	209032.300	5.5	218596.690	5.5
1045.2771	29.01	.17	136336.880	1.0	145901.100	1.0
1045.2826	6.00	-.75	78199.070	2.0	87763.240	3.0
1045.2979	27.00	-2.91	43199.650	2.5	52763.680	3.5
1045.3036	22.00	-3.67	38764.832	3.0	48328.810	4.0
1045.3077	26.00	-3.19	44183.607	2.0	53747.547	3.0
1045.3941	6.00	-2.88	78199.070	2.0	87762.220	2.0
1045.3995	6.00	-3.80	79310.850	2.0	88873.950	2.0
1045.4050	6.00	-3.37	78199.070	2.0	87762.120	3.0
1045.4056	10.00	-3.00	162517.872	1.0	172080.916	1.0
1045.4061	24.00	-2.57	45255.510	3.0	54818.550	2.0
1045.4061	22.00	-3.64	38544.380	3.0	48107.420	2.0
1045.4500	10.00	-3.58	158795.992	1.0	168358.630	1.0
1045.4815	8.01	-1.76	245902.850	2.5	255465.200	3.5
1045.5198	10.03	-.09	634413.000	2.5	643975.000	2.5
1045.5351	10.01	.25	308101.270	2.5	317663.130	1.5
1045.5394	22.00	-7.46	7255.369	2.0	16817.190	1.0
1045.5422	26.00	-2.12	43499.485	4.0	53061.280	5.0
1045.5449	16.00	.28	55329.861	1.0	64891.632	2.0
1045.5723	10.01	-1.04	308101.610	1.5	317663.130	1.5
1045.6128	24.00	-1.70	35640.690	0.0	45201.840	1.0
1045.6620	15.01	-1.47	132397.700	2.0	141958.400	1.0
1045.6669	26.00	-4.97	33765.291	2.0	43325.946	3.0
1045.6757	16.00	-.42	55329.861	1.0	64890.436	0.0
1045.7098	20.00	-2.23	38192.392	1.0	47752.655	1.0
1045.7637	27.00	-2.42	43952.060	5.5	53511.830	5.5
1045.7648	23.00	-4.53	15270.420	1.5	24830.180	1.5
1045.7912	10.00	-3.21	158795.992	1.0	168355.510	1.0
1045.8217	26.00	-3.56	44826.920	0.0	54386.160	1.0
1045.8249	22.00	-4.24	20209.444	2.0	29768.655	2.0
1045.8414	23.00	-2.59	15571.900	2.5	25130.960	2.5
1045.8457	18.00	-3.17	114821.990	3.0	124381.010	2.0
1045.9158	24.00	-1.86	47814.400	3.0	57372.780	4.0
1045.9406	16.00	.06	55329.861	1.0	64888.014	1.0
1045.9410	23.00	-2.31	32846.740	2.5	42404.890	3.5
1045.9475	28.01	-3.21	106007.890	2.5	115565.980	2.5
1045.9596	18.01	-1.19	200880.520	3.5	210438.500	4.5
1046.0070	22.00	-2.12	18192.577	6.0	27750.124	5.0
1046.0121	13.01	-1.23	139242.900	3.0	148800.400	4.0
1046.0121	13.01	-1.04	139242.900	3.0	148800.400	4.0
1046.0414	26.00	-4.47	44243.668	5.0	53800.900	5.0
1046.0417	10.01	-1.20	281025.940	2.5	290583.170	1.5
1046.0526	24.00	-2.81	36552.130	3.0	46109.260	2.0
1046.0548	14.00	-.64	54205.090	2.0	63762.200	3.0
1046.1150	28.01	-3.14	121385.800	1.5	130942.360	1.5
1046.1216	28.01	-2.85	129284.500	2.5	138841.000	3.5
1046.1216	28.01	-3.65	121385.800	1.5	130942.300	1.5
1046.1347	25.00	-2.19	52870.100	3.5	62426.480	3.5
1046.1402	23.00	-4.04	17181.980	4.5	26738.310	4.5
1046.1500	24.00	-2.20	48507.560	1.0	58063.800	2.0
1046.1544	8.01	-2.05	255912.000	.5	265468.200	.5
1046.1544	8.01	-3.53	255912.000	.5	265468.200	1.5
1046.1796	25.02	-4.41	208819.640	3.5	218375.610	4.5
1046.1806	18.01	-.92	194861.270	2.5	204417.230	1.5
1046.2219	26.00	-4.21	44411.137	1.0	53966.720	2.0
1046.2224	28.00	-3.85	49032.589	2.0	58588.168	3.0
1046.2639	8.01	-1.76	255913.000	1.5	265468.200	.5
1046.2639	8.01	-2.58	255913.000	1.5	265468.200	1.5
1046.2672	6.00	-4.38	79318.780	1.0	88873.950	2.0
1046.2829	26.00	-4.20	44511.795	2.0	54066.821	2.0
1046.3033	26.01	-2.75	54870.620	2.5	64425.460	2.5
1046.3164	23.00	-3.22	27470.880	3.5	37025.600	3.5
1046.3252	23.01	-9.68	25191.080	2.0	34745.720	3.0
1046.3318	18.01	-2.23	201030.300	.5	210584.880	1.5
1046.3384	18.01	-1.30	195031.120	2.5	204585.640	2.5
1046.3515	17.01	-2.98	161654.800	1.0	171209.200	2.0
1046.3909	24.00	-4.64	31352.420	1.0	40906.460	1.0
1046.4161	23.01	-1.84	30641.710	3.0	40195.520	3.0
1046.4391	13.01	-2.62	138536.400	3.0	148090.000	2.0
1046.4391	13.01	-3.53	138536.400	3.0	148090.000	3.0
1046.4475	10.00	-2.31	162517.872	1.0	172071.396	2.0
1046.4544	24.00	-3.10	53117.540	4.0	62671.000	4.0
1046.4754	7.00	-3.30	106758.731	.5	116312.000	.5
1046.4754	7.00	-3.60	106758.731	.5	116312.000	1.5
1046.5103	21.00	-5.00	25014.150	2.5	34567.100	3.5
1046.5355	29.01	-.20	136336.880	1.0	145889.600	0.0
1046.5551	7.00	-4.75	106814.459	2.5	116367.000	1.5
1046.5551	7.00	-3.71	106814.459	2.5	116367.000	2.5
1046.5551	7.00	-2.14	106814.459	2.5	116367.000	3.5
1046.6133	28.01	-4.02	126738.820	1.5	136290.830	.5
1046.6297	22.00	-3.53	33680.130	3.0	43231.990	4.0
1046.6463	10.00	-2.63	163707.721	1.0	173259.430	1.0
1046.6549	25.00	-4.91	47753.990	2.5	57305.620	3.5
1046.6637	18.00	-4.45	114805.180	2.0	124356.730	2.0
1046.6674	18.00	-3.43	116660.054	1.0	126211.570	1.0
1046.6680	22.00	-3.62	26657.409	4.0	36208.920	4.0
1046.7196	18.01	-.38	149179.170	3.5	158730.210	2.5
1046.7425	10.00	-2.21	163708.599	2.0	173259.430	1.0
1046.7492	17.00	-.32	88188.550	1.5	97739.320	1.5
1046.7558	24.00	-3.89	36558.550	2.0	46109.260	2.0
1046.7799	23.01	-3.52	44200.970	1.0	53751.460	1.0
1046.7799	17.00	-1.13	88188.550	1.5	97739.040	.5
1046.8577	28.01	-2.72	126738.820	1.5	136288.600	2.5
1046.9015	25.00	-2.68	57305.620	3.5	66855.000	4.5
1046.9388	28.01	-4.70	121161.810	1.5	130710.850	.5
1046.9607	27.00	-4.04	23184.230	2.5	32733.070	3.5
1047.0049	18.00	-1.34	94553.707	0.0	104102.144	1.0
1047.0692	28.00	-1.72	44206.185	3.0	53754.036	2.0
1047.0803	23.00	-6.42	8578.520	2.5	18126.270	1.5
1047.0825	6.00	-2.73	78215.510	3.0	87763.240	3.0
1047.0923	18.01	-3.64	148620.070	1.5	158167.710	1.5
1047.0978	6.00	-.59	78215.510	3.0	87763.100	4.0
1047.1034	10.00	-2.94	163707.721	1.0	173255.260	0.0
1047.1801	26.00	-4.33	44378.420	1.0	53925.260	1.0
1047.1801	24.00	-2.42	47814.400	3.0	57361.240	3.0
1047.1932	27.00	-2.05	36329.860	2.5	45876.580	2.5
1047.1944	6.00	-3.30	78215.510	3.0	87762.220	2.0
1047.2054	6.00	-1.86	78215.510	3.0	87762.120	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1047.2088	20.00	-2.67	38219.118	2.0	47765.697	3.0
1047.2152	28.01	-2.98	127219.970	3.5	136766.490	2.5
1047.2185	28.01	-4.88	129294.510	2.5	138841.000	3.5
1047.2427	7.00	-3.08	106758.731	.5	116305.000	.5
1047.2427	7.00	-4.56	106758.731	.5	116305.000	1.5
1047.2708	22.00	-1.38	35035.147	2.0	44581.160	2.0
1047.3183	15.00	-1.51	67113.820	2.5	76659.400	2.5
1047.3244	26.00	-3.21	44285.436	2.0	53830.960	3.0
1047.3808	28.00	-2.79	49327.560	3.0	58872.570	4.0
1047.3838	18.00	-2.13	113716.610	3.0	123261.593	2.0
1047.3918	27.00	-2.87	43425.710	2.5	52970.620	2.5
1047.4323	7.00	-2.57	106814.459	2.5	116359.000	2.5
1047.4323	7.00	-4.59	106814.459	2.5	116359.000	3.5
1047.4456	24.00	-2.92	53117.540	4.0	62661.960	3.0
1047.4511	28.01	-4.81	121146.980	2.5	130691.350	1.5
1047.4643	6.00	-1.60	78293.490	1.0	87837.740	1.0
1047.4643	6.00	-2.26	78293.490	1.0	87837.740	2.0
1047.4961	28.01	-3.95	106283.160	2.5	115827.120	3.5
1047.4993	7.00	-2.23	107037.069	2.5	116581.000	1.5
1047.4993	7.00	-2.57	107037.069	2.5	116581.000	2.5
1047.5071	18.00	-4.24	114805.180	2.0	124349.040	3.0
1047.5181	28.00	-1.83	42653.723	2.0	52197.482	3.0
1047.5432	22.00	-3.36	26657.409	4.0	36200.940	5.0
1047.5543	26.02	-4.83	189784.520	2.0	199327.950	1.0
1047.5676	26.00	-4.29	38678.015	2.0	48221.323	1.0
1047.5708	10.01	-.81	312804.730	2.5	322348.010	3.5
1047.5828	23.00	-5.03	8715.720	3.5	18258.890	2.5
1047.5916	28.01	-3.13	129297.910	3.5	138841.000	3.5
1047.6271	18.00	-3.72	116660.054	1.0	126202.820	0.0
1047.6443	25.00	-3.13	52883.870	2.5	62426.480	3.5
1047.6541	25.00	-3.39	52758.110	4.5	62300.630	4.5
1047.6882	27.00	-4.20	44394.470	3.5	53936.680	2.5
1047.7266	27.00	-3.75	44183.340	4.5	53725.200	4.5
1047.7354	23.00	-4.47	28462.150	2.5	38003.930	1.5
1047.7563	18.01	-2.41	192712.000	1.5	202253.590	1.5
1047.8083	18.00	-1.00	104102.144	1.0	113643.260	1.0
1047.8535	22.00	-4.56	29986.185	3.0	39526.890	2.0
1047.9001	24.00	-3.34	35572.940	2.0	45113.220	3.0
1047.9638	19.00	-1.95	21534.700	2.5	31074.400	1.5
1048.0077	17.01	-.90	140259.000	2.0	149798.300	2.0
1048.0531	22.00	-3.16	31829.972	4.0	41368.860	4.0
1048.0627	29.01	-3.78	141204.100	3.0	150742.900	3.0
1048.1023	6.00	-1.82	77679.820	2.0	87218.260	2.0
1048.1322	20.00	-2.07	38219.118	2.0	47757.286	2.0
1048.1330	22.00	-4.07	38670.710	4.0	48208.870	3.0
1048.1388	22.00	-3.50	15156.787	4.0	24694.895	4.0
1048.1506	29.01	-3.18	141244.600	1.0	150782.600	2.0
1048.2166	19.00	-2.91	21537.000	1.5	31074.400	1.5
1048.2331	25.00	-1.68	52758.110	4.5	62295.360	5.5
1048.2905	14.00	-2.04	54257.582	3.0	63794.310	2.0
1048.3100	25.00	-1.98	52758.110	4.5	62294.660	3.5
1048.3110	7.00	-3.18	106814.459	2.5	116351.000	1.5
1048.3430	24.00	-3.70	47814.400	3.0	57350.650	2.0
1048.3473	9.01	-4.00	254541.450	2.0	264077.660	1.0
1048.4034	13.01	-1.30	139286.800	2.0	148822.500	3.0
1048.4815	24.00	-4.10	33113.270	4.0	42648.260	3.0
1048.5090	18.00	-3.96	114821.990	3.0	124356.730	2.0
1048.5310	10.01	-1.26	303237.910	1.5	312772.450	2.5
1048.5618	25.02	-4.28	121197.050	2.5	130731.310	3.5
1048.5684	8.02	-.95	428769.000	3.0	438303.200	2.0
1048.5794	28.01	-3.05	111783.790	3.5	121317.890	3.5
1048.6014	9.01	-4.73	254541.450	2.0	264075.350	2.0
1048.6025	9.01	-3.51	254541.460	3.0	264075.350	2.0
1048.6212	24.00	-1.25	24282.340	4.0	33816.060	4.0
1048.6275	7.00	-3.30	106778.337	1.5	116312.000	.5
1048.6275	7.00	-2.79	106778.337	1.5	116312.000	1.5
1048.6275	7.00	-4.00	106778.337	1.5	116312.000	2.5
1048.6289	26.02	-4.62	189679.070	3.0	199212.720	4.0
1048.6413	20.00	-2.68	38219.118	2.0	47752.655	1.0
1048.6421	6.00	-1.12	78293.490	1.0	87827.020	2.0
1048.7113	19.00	-2.22	21537.000	1.5	31069.900	.5
1048.8010	22.00	-3.65	26564.385	3.0	36096.470	3.0
1048.8082	25.00	-3.40	57305.620	3.5	66837.640	2.5
1048.8192	26.02	-4.37	189796.030	1.0	199327.950	1.0
1048.8830	10.01	-3.39	312816.670	5.5	322348.010	4.5
1048.8918	10.01	-2.21	312816.750	4.5	322348.010	4.5
1048.8940	25.00	-4.38	35165.050	1.5	44696.290	2.5
1048.8973	9.01	-3.30	254541.410	4.0	264072.620	3.0
1048.9017	9.01	-1.08	254546.490	2.0	264077.660	1.0
1048.9028	9.01	-4.42	254541.460	3.0	264072.620	3.0
1048.9077	22.00	-4.00	33700.874	4.0	43231.990	4.0
1048.9094	29.01	-2.64	139028.200	2.0	148559.300	2.0
1048.9094	25.00	-2.95	47774.520	3.5	57305.620	3.5
1048.9392	18.01	-2.52	170400.940	2.5	179931.770	1.5
1048.9425	13.01	-2.43	138559.200	4.0	148090.000	3.0
1048.9535	8.01	-4.26	255689.600	2.5	265220.300	1.5
1048.9535	8.01	-2.63	255689.600	2.5	265220.300	2.5
1048.9612	16.01	-4.26	143623.030	1.5	153153.660	.5
1048.9931	28.01	-3.50	105439.850	1.5	114970.190	.5
1049.0019	20.02	-2.02	373626.850	2.0	383157.110	3.0
1049.0184	6.00	-2.09	78307.630	2.0	87837.740	1.0
1049.0184	6.00	-1.75	78307.630	2.0	87837.740	2.0
1049.0195	9.00	-.97	119081.820	.5	128611.920	1.5
1049.1021	27.00	-4.70	43242.950	2.5	52772.300	2.5
1049.1295	6.00	-4.69	78731.270	1.0	88260.370	2.0
1049.1384	9.01	-.91	254546.330	3.0	264075.350	2.0
1049.1516	8.01	-1.24	255691.400	3.5	265220.300	2.5
1049.1560	9.01	-1.82	254546.490	2.0	264075.350	2.0
1049.1593	18.00	-2.93	113643.260	1.0	123172.090	1.0
1049.2287	21.00	-4.53	11557.640	2.5	21085.840	3.5
1049.2933	22.00	-4.92	37659.927	3.0	47187.540	2.0
1049.3554	18.00	-3.41	114821.990	3.0	124349.040	3.0
1049.3980	7.00	-3.07	106778.337	1.5	116305.000	.5
1049.3980	7.00	-3.75	106778.337	1.5	116305.000	1.5
1049.4171	9.01	-.75	254546.130	4.0	264072.620	3.0
1049.4390	9.01	-1.82	254546.330	3.0	264072.620	3.0
1049.4566	9.01	-3.36	254546.490	2.0	264072.620	3.0
1049.5009	14.00	-2.83	54257.582	3.0	63783.310	4.0
1049.5424	26.00	-4.06	44243.668	5.0	53769.020	4.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1049.5635	28.01	-3.48	106620.530	3.5	116145.690	3.5
1049.5713	25.00	-3.45	49591.510	1.5	59116.600	2.5
1049.5955	18.01	-.22	190507.360	1.5	200032.230	1.5
1049.6084	22.00	-1.65	6742.757	4.0	16267.510	5.0
1049.7399	25.00	-3.15	53109.210	2.5	62632.770	3.5
1049.7615	26.00	-2.82	44022.518	4.0	53545.882	3.0
1049.8490	25.00	-1.85	57485.970	2.5	67008.540	2.5
1049.8700	23.01	-2.81	30673.140	2.0	40195.520	3.0
1049.9127	22.00	-4.23	37617.868	4.0	47139.860	4.0
1049.9593	28.01	-2.38	122790.410	4.5	132311.980	4.5
1049.9648	7.00	-3.21	106980.480	.5	116502.000	.5
1049.9648	7.00	-3.90	106980.480	.5	116502.000	1.5
1050.0177	18.01	.20	190511.190	2.5	200032.230	1.5
1050.0265	26.01	-4.31	54904.500	3.5	64425.460	2.5
1050.0266	7.00	-.40	95475.280	.5	104996.240	1.5
1050.0519	27.00	-3.14	43242.950	2.5	52763.680	3.5
1050.1137	22.00	-4.14	18145.400	2.0	27665.570	1.0
1050.1402	28.01	-4.69	103653.030	3.5	113172.960	4.5
1050.1886	6.00	-2.34	78318.250	3.0	87837.740	2.0
1050.1997	6.00	-1.23	78307.630	2.0	87827.020	2.0
1050.2085	6.00	-1.40	78307.630	2.0	87826.940	3.0
1050.2154	22.00	-3.78	26494.322	2.0	36013.570	2.0
1050.2659	27.00	-2.65	44183.340	4.5	53702.130	3.5
1050.2836	24.00	-3.02	53172.330	5.0	62690.960	5.0
1050.2935	24.00	-3.12	36558.550	2.0	46077.090	1.0
1050.2968	18.01	-1.11	194996.490	1.5	204515.000	.5
1050.2979	8.01	-4.85	255913.000	1.5	265431.500	2.5
1050.3178	23.00	-4.25	27470.880	3.5	36989.200	2.5
1050.4083	23.00	-2.64	32988.820	3.5	42506.320	4.5
1050.4226	6.01	-2.13	168978.340	2.5	178495.710	2.5
1050.4226	6.01	-.83	168978.340	3.5	178495.710	2.5
1050.4326	9.01	-3.66	277188.860	1.0	286706.140	1.0
1050.4534	26.00	-3.42	42532.729	3.0	52049.820	2.0
1050.4579	27.00	-2.12	43199.650	2.5	52716.700	3.5
1050.4767	23.00	-3.38	32846.740	2.5	42363.620	3.5
1050.4767	23.00	-3.31	32846.740	2.5	42363.620	3.5
1050.4889	6.01	-.99	168978.340	2.5	178495.110	1.5
1050.5242	24.00	-1.45	47866.480	4.0	57382.930	5.0
1050.5290	26.00	-3.31	41018.029	2.0	50534.435	3.0
1050.5740	14.00	-3.90	54257.582	3.0	63773.580	2.0
1050.6003	17.00	-2.62	91660.580	2.5	101176.340	2.5
1050.6061	14.00	-4.56	54257.582	1.0	63773.290	3.0
1050.6147	26.02	-4.47	189784.520	2.0	199300.150	2.0
1050.6180	18.00	-1.18	112138.980	2.0	121654.580	2.0
1050.6190	17.00	-1.32	91660.580	2.5	101176.171	3.5
1050.6295	26.00	-3.54	44551.325	3.0	54066.821	2.0
1050.6411	17.00	-.80	88188.550	1.5	97703.941	2.5
1050.6467	18.00	-3.59	112138.980	2.0	121654.320	3.0
1050.6511	13.01	-1.75	135009.000	0.0	144524.300	1.0
1050.6572	26.00	-3.12	44551.325	3.0	54066.570	4.0
1050.6743	17.00	-1.23	88188.550	1.5	97703.640	1.5
1050.6997	7.00	.11	95493.660	1.5	105008.520	2.5
1050.7008	28.01	-2.90	121385.800	1.5	130900.650	2.5
1050.7218	24.00	-4.54	37205.880	3.0	46720.540	4.0
1050.7483	18.00	-.04	112138.980	2.0	121653.400	3.0
1050.7811	26.00	-3.51	44411.137	1.0	53925.260	1.0
1050.8046	28.01	-2.31	100332.090	4.5	109846.000	3.5
1050.8135	23.00	-4.34	32891.060	3.5	42404.890	3.5
1050.8389	8.01	-2.37	245767.800	.5	255281.400	.5
1050.8444	24.00	-2.89	27382.180	2.0	36895.730	3.0
1050.8698	18.01	-2.11	202155.860	2.5	211669.180	2.5
1050.8721	6.00	-4.48	78249.940	4.0	87763.240	3.0
1050.8875	6.00	-3.45	78249.940	4.0	87763.100	4.0
1050.9460	21.00	-4.32	11520.150	1.5	21032.780	2.5
1050.9650	26.00	-4.85	51294.262	3.0	60806.720	3.0
1050.9692	9.01	-2.40	277188.860	1.0	286701.280	2.0
1050.9858	6.00	-.82	78307.630	2.0	87819.900	3.0
1050.9935	14.02	-.21	240262.280	1.0	249774.480	2.0
1050.9935	13.01	-1.75	135012.100	1.0	144524.300	1.0
1050.9935	7.00	-2.53	106477.800	.5	115990.000	.5
1050.9935	7.00	-2.83	106477.800	.5	115990.000	1.5
1050.9957	6.00	-4.69	78249.940	4.0	87762.120	3.0
1051.0024	24.00	-1.84	24303.940	3.0	33816.060	4.0
1051.0600	3.00	-.49	30925.000	0.0	40439.205	0.0
1051.1007	27.00	-1.94	44183.340	4.5	53694.570	3.5
1051.1394	28.01	-2.48	111783.790	3.5	121294.670	4.5
1051.1571	15.00	-.21	55939.300	.5	65450.020	1.5
1051.1615	23.00	-3.66	28595.640	3.5	38106.320	2.5
1051.1748	10.01	-1.66	292546.700	.5	302057.260	.5
1051.3358	22.00	-4.20	38699.767	2.0	48208.870	3.0
1051.3406	7.00	-.23	95475.280	.5	104984.340	.5
1051.3726	6.00	-2.23	78318.250	3.0	87827.020	2.0
1051.3771	27.00	-2.81	43263.570	1.5	52772.300	2.5
1051.3815	6.00	-1.08	78318.250	3.0	87826.940	3.0
1051.3826	25.00	-3.40	53124.090	3.5	62632.770	3.5
1051.4976	18.01	-1.56	202155.860	2.5	211663.500	3.5
1051.5894	24.00	-2.45	48488.230	0.0	57995.040	1.0
1051.6157	20.00	-1.84	38259.124	3.0	47765.697	3.0
1051.6193	18.00	-3.40	114805.180	2.0	124311.720	1.0
1051.6458	24.00	-2.17	47866.480	4.0	57372.780	4.0
1051.6713	24.00	-3.09	36552.130	3.0	46058.200	4.0
1051.6825	7.00	-2.50	106996.032	1.5	116502.000	.5
1051.6825	7.00	-3.77	106996.032	1.5	116502.000	1.5
1051.7454	13.01	-1.05	135018.900	2.0	144524.300	1.0
1051.7522	14.00	-.40	54257.582	3.0	63762.920	4.0
1051.7587	25.02	-3.32	209091.410	5.5	218596.690	5.5
1051.7642	24.00	-2.33	48558.570	2.0	58063.800	2.0
1051.8195	28.01	-2.62	108368.050	2.5	117872.780	2.5
1051.8319	14.00	-1.35	54257.582	3.0	63762.200	3.0
1051.8472	23.00	-4.38	32660.260	2.5	42164.740	3.5
1051.8583	27.00	-4.15	43130.240	.5	52634.620	.5
1051.8605	22.00	-3.29	37690.320	5.0	47194.680	4.0
1051.8871	26.02	-4.95	189796.030	1.0	199300.150	2.0
1051.8871	18.00	-2.77	113716.610	3.0	123220.730	2.0
1051.8882	24.00	-4.97	33060.740	3.0	42564.850	4.0
1051.9207	28.00	-1.30	42767.900	3.0	52271.716	2.0
1051.9513	18.01	.36	185624.730	3.5	195128.270	4.5
1051.9988	27.00	-3.65	43199.650	2.5	52702.760	1.5
1052.0575	7.00	.01	95493.660	1.5	104996.240	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1052.0586	28.01	-4.31	105439.850	1.5	114942.420	1.5
1052.0974	27.00	-2.17	44201.920	2.5	53704.140	2.5
1052.1461	15.00	-1.77	66544.120	2.5	76045.900	2.5
1052.1494	6.00	-.46	78318.250	3.0	87820.000	4.0
1052.1605	6.00	-1.56	78318.250	3.0	87819.900	3.0
1052.1671	24.00	-1.96	53172.330	5.0	62673.920	6.0
1052.1921	22.00	-4.05	26564.385	3.0	36065.750	3.0
1052.2347	28.01	-3.55	106369.300	1.5	115870.280	2.5
1052.3135	7.00	-3.75	106758.731	.5	116259.000	.5
1052.3135	7.00	-4.36	106758.731	.5	116259.000	1.5
1052.3200	27.00	-4.02	44201.920	2.5	53702.130	3.5
1052.3211	23.00	-3.04	15270.420	1.5	24770.620	.5
1052.3388	27.00	-4.42	36875.130	1.5	46375.170	1.5
1052.3930	18.01	-2.14	186815.960	3.5	196315.510	2.5
1052.4241	16.01	-4.84	121529.490	2.5	131028.760	1.5
1052.4862	24.00	-3.44	33040.100	2.0	42538.810	3.0
1052.4906	24.00	-3.17	53172.330	5.0	62671.000	4.0
1052.5183	26.00	-4.87	48475.740	3.0	57974.160	2.0
1052.5244	7.00	-2.22	106868.635	3.5	116367.000	3.5
1052.5327	18.00	-1.12	115366.900	1.0	124865.190	2.0
1052.5469	20.00	-2.67	38259.124	3.0	47757.286	2.0
1052.5537	14.02	-2.95	165765.000	2.0	175263.100	1.0
1052.5913	28.00	-2.59	49032.589	2.0	58530.350	3.0
1052.6157	7.00	-2.50	106814.459	2.5	116312.000	1.5
1052.6157	7.00	-3.05	106814.459	2.5	116312.000	2.5
1052.6623	26.00	-2.85	44664.061	2.0	54161.182	3.0
1052.6999	26.00	-3.42	44760.739	1.0	54257.520	2.0
1052.7023	10.01	-.47	281998.280	2.5	291495.040	2.5
1052.7411	18.00	-1.70	114641.040	2.0	124137.450	2.0
1052.7424	20.00	-1.96	39333.382	0.0	48829.780	1.0
1052.7577	23.00	-2.67	17242.050	5.5	26738.310	4.5
1052.7588	18.00	-.33	114641.040	2.0	124137.290	3.0
1052.7621	10.01	-3.28	292451.780	1.5	301948.000	1.5
1052.8065	26.00	-3.25	44243.668	5.0	53739.488	5.0
1052.8608	25.00	-2.02	57485.970	2.5	66981.300	3.5
1052.8752	7.00	-2.46	106477.800	.5	115973.000	1.5
1052.9240	24.00	-3.72	47866.480	4.0	57361.240	3.0
1052.9307	18.00	-2.32	114641.040	2.0	124135.740	3.0
1052.9418	25.00	-4.99	42143.570	1.5	51638.170	2.5
1052.9473	15.00	.20	56090.450	1.5	65585.000	2.5
1052.9575	20.00	-2.04	39335.322	1.0	48829.780	1.0
1052.9575	20.00	-1.79	39335.322	1.0	48829.780	2.0
1053.0527	29.01	-3.18	139028.200	2.0	148521.800	1.0
1053.0531	28.00	-1.14	33112.368	3.0	42605.964	3.0
1053.1283	28.00	-3.92	49032.589	2.0	58525.507	1.0
1053.1314	28.01	-2.82	129396.040	5.5	138888.930	6.5
1053.1581	27.00	-2.68	44201.920	2.5	53694.570	3.5
1053.1972	22.00	-4.22	33655.853	2.0	43148.150	3.0
1053.2537	28.00	-1.27	45281.152	3.0	54772.940	3.0
1053.3012	24.00	-4.60	35862.820	4.0	45354.180	5.0
1053.3611	28.01	-4.05	121325.090	2.5	130815.910	3.5
1053.3767	7.00	-.61	95493.660	1.5	104984.340	.5
1053.3921	7.00	-3.46	106814.459	2.5	116305.000	1.5
1053.3944	18.00	-2.64	115366.900	1.0	124857.420	2.0
1053.4055	14.02	-.05	240284.280	2.0	249774.700	3.0
1053.4078	8.01	-4.58	256087.600	2.5	265578.000	3.5
1053.4111	18.00	-2.70	115366.900	1.0	124857.270	1.0
1053.4117	7.00	-4.12	106868.635	3.5	116359.000	2.5
1053.4117	7.00	-2.48	106868.635	3.5	116359.000	3.5
1053.4133	28.01	-2.27	122821.630	5.5	132311.980	4.5
1053.4300	14.02	-.95	240284.280	2.0	249774.480	2.0
1053.4721	23.00	-2.95	34428.760	1.5	43918.580	2.5
1053.4855	20.00	-3.13	39340.080	2.0	48829.780	1.0
1053.4855	20.00	-2.20	39340.080	2.0	48829.780	2.0
1053.4855	20.00	-1.35	39340.080	2.0	48829.780	3.0
1053.5387	18.00	-2.80	113716.610	3.0	123205.830	3.0
1053.5542	18.01	-.88	186815.960	3.5	196305.040	3.5
1053.6031	20.02	-3.24	350900.040	2.0	360388.680	3.0
1053.6209	23.01	-2.57	63657.200	2.0	73145.680	3.0
1053.6364	25.02	-3.48	208819.640	3.5	218307.980	2.5
1053.6631	24.00	-2.71	35870.530	4.0	45358.630	4.0
1053.6711	22.00	-1.00	29661.232	1.0	39149.260	2.0
1053.6909	23.00	-4.10	17116.920	3.5	26604.770	3.5
1053.7320	24.00	-3.05	48507.560	1.0	57995.040	1.0
1053.8775	24.00	-1.86	48661.590	3.0	58147.760	3.0
1053.8919	28.01	-4.29	121456.320	1.5	130942.360	1.5
1053.9208	17.00	-.16	88188.550	1.5	97674.330	2.5
1053.9574	7.00	.47	95532.120	2.5	105017.570	3.5
1053.9578	22.00	-3.92	17540.205	3.0	27025.652	4.0
1053.9846	22.00	-4.15	36000.144	4.0	45485.350	5.0
1053.9890	10.00	-4.80	161524.174	1.0	171009.340	1.0
1053.9964	25.00	-3.65	47903.800	4.5	57388.900	4.5
1054.0063	8.01	-2.04	245816.290	1.5	255301.300	2.5
1054.1242	6.00	-.50	68856.330	1.0	78340.280	1.0
1054.1553	18.01	.17	189654.780	2.5	199138.450	1.5
1054.1575	24.00	-3.50	35870.530	4.0	45354.180	5.0
1054.2143	22.00	-3.80	37555.021	3.0	47038.160	3.0
1054.2287	8.02	-.39	357111.000	2.0	366594.010	2.0
1054.2653	18.01	-1.40	201030.300	.5	210512.980	1.5
1054.3009	23.00	-7.46	8715.720	3.5	18198.080	2.5
1054.3187	29.01	-1.93	137077.600	3.0	146559.800	4.0
1054.3320	25.00	-3.42	35041.370	3.5	44523.450	3.5
1054.4222	7.00	-4.04	106758.731	.5	116240.000	1.5
1054.4777	28.01	-4.07	121180.550	5.5	130661.320	5.5
1054.4897	7.00	-3.44	106778.337	1.5	116259.000	.5
1054.4897	7.00	-3.36	106778.337	1.5	116259.000	1.5
1054.4897	7.00	-2.94	106778.337	1.5	116259.000	2.5
1054.5111	24.00	-1.89	36577.730	4.0	46058.200	4.0
1054.5189	20.02	.49	361794.080	1.0	371274.480	2.0
1054.5256	27.00	-4.13	43435.580	.5	52915.920	.5
1054.5418	28.00	-1.55	45281.152	3.0	54761.346	4.0
1054.6067	7.01	.16	205350.180	2.0	214829.790	1.0
1054.6746	29.01	-3.21	137077.600	3.0	146556.600	3.0
1054.6824	26.01	.70	77861.470	4.5	87340.400	5.5
1054.7570	23.01	-2.49	63548.500	1.0	73026.760	2.0
1054.7948	26.02	-4.88	189784.520	2.0	199262.440	3.0
1054.8080	10.00	-4.81	162435.678	1.0	171913.480	0.0
1054.8493	25.00	-3.08	57305.620	3.5	66783.050	3.5
1054.8939	27.00	-3.75	44183.340	4.5	53660.370	5.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1054.9640	7.00	.07	95532.120	2.5	105008.520	2.5
1054.9673	24.00	-4.54	37244.170	4.0	46720.540	4.0
1055.0063	24.00	-3.28	24286.540	1.0	33762.560	0.0
1055.0108	24.00	-2.62	33113.270	4.0	42589.250	5.0
1055.0531	21.00	-8.41	11610.240	3.5	21085.840	3.5
1055.0620	6.00	-4.98	79318.780	1.0	88794.300	2.0
1055.0910	22.00	-4.40	37555.021	3.0	47030.280	3.0
1055.0920	24.00	-4.42	33040.100	2.0	42515.350	2.0
1055.1043	21.00	-5.65	11557.640	2.5	21032.780	2.5
1055.1420	22.00	-4.50	26657.409	4.0	36132.210	4.0
1055.1577	18.01	.08	199446.540	.5	208921.200	1.5
1055.1589	28.01	-2.34	122837.330	4.5	132311.980	4.5
1055.1667	18.01	-1.62	190507.360	1.5	199981.940	1.5
1055.1750	22.00	-2.57	15220.390	5.0	24694.895	4.0
1055.1945	23.00	-3.12	28768.130	4.5	38242.460	3.5
1055.2056	24.00	-3.71	35884.400	5.0	45358.630	4.0
1055.2937	18.01	-2.30	205194.040	1.5	214667.480	2.5
1055.2939	22.00	-2.38	18141.229	5.0	27614.667	4.0
1055.2959	25.01	-4.34	66901.140	2.0	76374.560	2.0
1055.3115	15.00	-1.22	66360.120	1.5	75833.400	2.5
1055.3204	29.01	-2.42	138593.100	1.0	148066.300	2.0
1055.3315	24.00	-1.60	47877.550	1.0	57350.650	2.0
1055.3917	23.00	-3.08	32891.060	3.5	42363.620	3.5
1055.4462	6.00	-4.60	79318.780	1.0	88790.850	1.0
1055.4518	28.01	-3.23	96535.870	3.5	106007.890	2.5
1055.4563	27.00	-4.02	42988.120	3.5	52460.100	2.5
1055.4763	17.00	-.69	83130.900	1.5	92602.700	.5
1055.4775	25.00	-3.29	53101.320	.5	62573.110	1.5
1055.5103	22.00	-4.14	34327.960	1.0	43799.455	2.0
1055.5120	24.00	-4.30	37233.500	5.0	46704.980	5.0
1055.5354	10.01	-4.33	281332.550	.5	290803.820	.5
1055.5454	24.00	-3.63	37205.880	3.0	46677.060	2.0
1055.5585	26.00	-2.62	43922.652	3.0	53393.715	4.0
1055.5934	18.01	-2.12	190511.190	2.5	199981.940	1.5
1055.6246	24.00	-2.94	45734.320	2.0	55204.790	3.0
1055.6469	27.00	-3.96	23184.230	2.5	32654.500	2.5
1055.6469	15.00	-3.75	66343.330	.5	75813.600	.5
1055.6656	22.00	-4.40	12118.394	4.0	21588.496	4.0
1055.6703	24.00	-3.06	45201.840	1.0	54671.900	1.0
1055.6859	25.00	-4.07	53103.190	1.5	62573.110	1.5
1055.7015	24.00	-2.68	35884.400	5.0	45354.180	5.0
1055.7394	28.01	-2.83	109846.000	3.5	119315.440	2.5
1055.7618	10.00	-2.51	163012.621	1.0	172481.860	1.0
1055.7803	22.00	-4.66	17423.853	2.0	26892.926	3.0
1055.8185	6.00	-.72	78293.490	1.0	87762.220	2.0
1055.8532	26.00	-2.95	44664.061	2.0	54132.480	1.0
1055.8598	27.00	-2.70	43295.320	4.5	52763.680	3.5
1055.8598	25.01	-4.87	72648.800	4.0	82117.160	5.0
1055.8866	24.00	-1.50	48824.500	4.0	58292.620	4.0
1055.8977	22.00	-4.55	33680.130	3.0	43148.150	3.0
1055.9200	27.00	-2.57	42796.670	1.5	52264.490	1.5
1055.9346	6.00	-4.52	79323.160	0.0	88790.850	1.0
1055.9450	22.00	-3.83	32013.534	6.0	41481.130	5.0
1055.9872	26.00	-4.73	49242.872	3.0	58710.090	3.0
1056.0450	15.00	-2.98	68377.200	3.5	77843.900	2.5
1056.0562	17.00	-.43	88272.720	.5	97739.320	1.5
1056.0807	25.00	-3.79	44993.920	3.5	54460.300	2.5
1056.0873	17.00	-1.09	88272.720	.5	97739.040	.5
1056.0941	26.00	-4.40	48231.330	5.0	57697.590	4.0
1056.1264	20.02	-3.74	350741.190	3.0	360207.160	2.0
1056.1465	27.00	-2.02	43398.620	3.5	52864.410	4.5
1056.1942	26.00	-4.74	45913.480	3.0	55378.842	2.0
1056.2023	7.01	-1.36	211030.070	3.0	220495.360	2.0
1056.2224	8.01	-2.51	245816.290	1.5	255281.400	.5
1056.2423	7.00	-4.75	107037.069	2.5	116502.000	1.5
1056.2458	28.01	-2.65	129424.030	5.5	138888.930	6.5
1056.2628	22.00	-3.11	26494.322	2.0	35959.070	1.0
1056.2782	25.02	-2.90	208650.540	3.5	218115.150	3.5
1056.2905	8.01	-3.08	255755.800	2.5	265220.300	2.5
1056.3038	28.01	-3.12	122847.600	3.5	132311.980	4.5
1056.3094	24.00	-3.35	35884.400	5.0	45348.730	6.0
1056.3284	25.00	-4.54	47753.990	2.5	57218.150	3.5
1056.3329	7.00	-.67	95532.120	2.5	104996.240	1.5
1056.3362	28.01	-3.53	70358.940	4.5	79823.030	3.5
1056.3574	25.00	-4.67	53109.210	2.5	62573.110	1.5
1056.3574	15.02	.31	191639.500	1.5	201103.400	.5
1056.4882	26.00	-3.84	45220.662	3.0	54683.390	4.0
1056.4911	10.00	-3.21	163012.621	1.0	172475.323	2.0
1056.5215	7.01	-3.41	211032.930	2.0	220495.360	2.0
1056.5571	26.00	-4.78	44285.436	2.0	53747.547	3.0
1056.5673	23.01	-2.29	63816.900	3.0	73278.920	4.0
1056.5974	22.00	-2.71	18037.225	4.0	27498.975	3.0
1056.6019	11.00	-1.57	30266.990	.5	39728.700	1.5
1056.6072	7.00	-3.04	106778.337	1.5	116240.000	1.5
1056.6072	7.00	-3.98	106778.337	1.5	116240.000	2.5
1056.6924	8.01	-1.90	255759.400	3.5	265220.300	2.5
1056.6964	22.00	-4.99	19421.576	3.0	28882.440	3.0
1056.7024	24.00	-4.09	37244.170	4.0	46704.980	5.0
1056.7114	28.01	-4.66	89100.490	3.5	98561.220	2.5
1056.7348	7.00	-3.12	106980.480	.5	116441.000	.5
1056.7348	7.00	-4.96	106980.480	.5	116441.000	1.5
1056.7538	14.02	.14	240314.630	3.0	249774.980	4.0
1056.7851	14.02	-.92	240314.630	3.0	249774.700	3.0
1056.7941	9.01	-4.15	280250.210	2.0	289710.200	2.0
1056.8097	14.02	-2.47	240314.630	3.0	249774.480	2.0
1056.8775	26.00	-3.02	44415.057	4.0	53874.300	5.0
1056.8923	28.01	-3.76	106133.140	1.5	115592.250	1.5
1056.9013	22.00	-4.37	39265.800	2.0	48724.830	1.0
1056.9292	25.00	-2.78	59257.440	4.5	68716.220	4.5
1056.9549	18.01	-3.78	199879.320	3.5	209337.870	4.5
1056.9560	22.00	-4.78	39265.800	2.0	48724.340	2.0
1057.0097	27.00	-4.75	43398.620	3.5	52856.680	3.5
1057.0801	23.00	-4.93	15270.420	1.5	24727.850	2.5
1057.1159	28.01	-2.60	111783.790	3.5	121240.900	3.5
1057.1796	27.00	-3.48	44480.140	2.5	53936.680	2.5
1057.1863	28.01	-3.68	100389.520	2.5	109846.000	3.5
1057.2265	9.01	-3.87	280250.210	2.0	289706.330	3.0
1057.2265	11.00	-1.32	30272.580	1.5	39728.700	2.5
1057.2265	11.00	-2.27	30272.580	1.5	39728.700	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1057.2747	10.00	-3.41	163401.301	0.0	172856.990	1.0
1057.2835	6.00	-1.16	78307.630	2.0	87763.240	3.0
1057.2936	7.00	-3.05	106980.480	.5	116436.000	1.5
1057.3428	25.00	-1.41	46901.130	2.5	56356.210	3.5
1057.3602	26.00	-3.48	44511.795	2.0	53966.720	2.0
1057.3629	8.01	-4.06	256123.100	3.5	265578.000	3.5
1057.3708	28.01	-4.95	121115.590	1.5	130570.420	.5
1057.3976	6.00	-1.85	78307.630	2.0	87762.220	2.0
1057.3984	22.00	-4.28	31914.277	5.0	41368.860	4.0
1057.4088	6.00	-1.06	78307.630	2.0	87762.120	3.0
1057.4435	18.01	-.21	191169.520	1.5	200623.700	.5
1057.4737	23.00	-4.50	32660.260	2.5	42114.170	3.5
1057.4860	29.01	-2.18	139028.200	2.0	148482.000	3.0
1057.4905	8.01	-2.79	238731.540	1.5	248185.300	2.5
1057.5218	15.00	-3.05	66360.120	1.5	75813.600	.5
1057.5476	17.00	-2.48	90749.360	2.5	100202.610	1.5
1057.5800	10.00	-4.84	161607.261	2.0	171060.220	2.0
1057.6211	18.00	-2.42	111818.090	1.0	121270.682	2.0
1057.6582	18.01	-.97	190507.360	1.5	199959.620	2.5
1057.6650	8.01	-3.86	256125.800	2.5	265578.000	3.5
1057.6672	28.00	-2.37	45122.460	1.0	54574.640	1.0
1057.6818	26.00	-4.55	48361.920	4.0	57813.970	3.0
1057.7163	26.00	-3.41	26627.612	4.0	36079.353	3.0
1057.7344	24.00	-3.58	33113.270	4.0	42564.850	4.0
1057.7355	10.00	-4.27	161592.120	3.0	171043.690	2.0
1057.7657	6.00	-3.53	68856.330	1.0	78307.630	2.0
1057.7687	28.00	-1.77	45281.152	3.0	54732.425	2.0
1057.7970	25.01	-4.78	72648.800	4.0	82099.820	4.0
1057.7982	23.00	-4.63	17054.870	2.5	26505.880	2.5
1057.8149	24.00	-2.45	48507.560	1.0	57958.420	0.0
1057.8217	28.02	-4.72	121412.200	2.0	130863.000	1.0
1057.8273	7.00	-2.98	94770.850	.5	104221.600	1.5
1057.8276	22.00	-4.94	37743.933	3.0	47194.680	4.0
1057.8430	18.01	-.91	202155.860	2.5	211606.470	3.5
1057.8530	26.01	-3.78	50212.930	2.5	59663.450	1.5
1057.9229	26.00	-4.90	26406.490	1.0	35856.386	2.0
1057.9325	27.00	-4.57	45957.290	.5	55407.100	1.5
1057.9471	26.00	-4.72	35611.608	3.0	45061.287	3.0
1058.0025	22.00	-2.96	26564.385	3.0	36013.570	2.0
1058.0231	10.03	-.50	633790.000	1.5	643239.000	.5
1058.0288	24.00	-3.48	24093.160	2.0	33542.110	2.0
1058.0870	18.01	-1.15	190511.190	2.5	199959.620	2.5
1058.1094	24.00	-2.27	36552.130	3.0	46000.360	3.0
1058.1531	15.00	.48	56339.540	2.5	65787.380	3.5
1058.1923	22.00	-1.50	29818.310	3.0	39265.800	2.0
1058.2161	14.00	-1.01	50189.389	2.0	59636.667	1.0
1058.2162	22.00	-3.16	33700.874	4.0	43148.150	3.0
1058.2315	27.00	-4.99	46002.830	2.5	55449.970	2.5
1058.2438	24.00	-4.51	47942.290	6.0	57389.320	6.0
1058.2763	27.00	-4.40	23207.760	1.5	32654.500	2.5
1058.2808	24.00	-2.82	45225.200	2.0	54671.900	1.0
1058.2998	23.00	-3.86	34619.520	2.5	44066.050	3.5
1058.3572	22.00	-1.33	29661.232	1.0	39107.250	1.0
1058.3656	26.00	-4.95	51103.237	5.0	60549.180	5.0
1058.3900	22.00	-.80	29768.655	2.0	39214.380	3.0
1058.4626	22.00	-1.78	6661.003	3.0	16106.080	4.0
1058.4724	6.00	-2.55	78318.250	3.0	87763.240	3.0
1058.4748	7.00	-3.10	106996.032	1.5	116441.000	.5
1058.4748	7.00	-2.83	106996.032	1.5	116441.000	1.5
1058.4748	7.00	-2.44	106996.032	1.5	116441.000	2.5
1058.4881	6.00	-1.23	78318.250	3.0	87763.100	4.0
1058.4937	13.01	-1.43	139286.800	2.0	148731.600	3.0
1058.5026	26.00	-4.41	33765.291	2.0	43210.011	2.0
1058.5142	14.00	-.02	39955.053	2.0	49399.670	1.0
1058.5227	7.00	-3.09	106814.459	2.5	116259.000	1.5
1058.5227	7.00	-2.47	106814.459	2.5	116259.000	2.5
1058.5430	24.00	-3.08	45201.840	1.0	54646.200	0.0
1058.5463	28.01	-2.42	121456.320	1.5	130900.650	2.5
1058.5755	24.00	-3.75	37244.170	4.0	46688.240	3.0
1058.5791	22.00	-3.55	38764.832	3.0	48208.870	3.0
1058.5822	28.01	-3.61	111783.790	3.5	121227.800	2.5
1058.5867	6.00	-4.62	78318.250	3.0	87762.220	2.0
1058.5979	6.00	-3.83	78318.250	3.0	87762.120	3.0
1058.6384	10.00	-2.66	163038.351	2.0	172481.860	1.0
1058.6546	7.00	-2.40	106868.635	3.5	116312.000	2.5
1058.6607	24.00	-1.53	47917.930	2.0	57361.240	3.0
1058.7290	15.01	.19	129110.600	1.0	138553.300	2.0
1058.7577	10.00	-4.21	161590.346	4.0	171032.790	3.0
1058.7838	7.00	-1.42	107182.788	1.5	116625.000	1.5
1058.8289	24.00	-3.34	36558.550	2.0	46000.360	3.0
1058.8300	8.01	-2.00	256136.200	4.5	265578.000	3.5
1058.8322	24.00	-4.86	35813.730	3.0	45255.510	3.0
1058.8410	22.00	-4.62	29971.078	4.0	39412.780	5.0
1058.8681	9.00	-.43	119081.820	.5	128523.280	1.5
1058.8827	15.01	-2.26	103166.370	1.0	112607.700	2.0
1058.9506	22.00	-2.59	26910.705	6.0	36351.430	5.0
1058.9601	24.00	-1.84	47942.290	6.0	57382.930	5.0
1059.0128	28.01	-4.38	121325.090	2.5	130765.260	3.5
1059.0354	7.00	-2.71	106996.032	1.5	116436.000	1.5
1059.0354	7.00	-3.00	106996.032	1.5	116436.000	2.5
1059.0622	25.02	-3.10	208935.880	4.5	218375.610	4.5
1059.1228	27.00	-3.26	43263.570	1.5	52702.760	1.5
1059.1287	18.00	-3.35	111818.090	1.0	121257.227	1.0
1059.1328	7.01	-1.46	211056.260	3.0	220495.360	2.0
1059.1372	22.00	-2.82	26657.409	4.0	36096.470	3.0
1059.2003	7.00	.64	110710.739	2.5	120149.238	3.5
1059.2114	9.00	-1.21	119081.820	.5	128520.220	.5
1059.2787	25.02	-3.13	208743.100	2.5	218180.900	1.5
1059.2900	13.01	-.95	138811.900	3.0	148249.600	4.0
1059.3461	13.01	-1.48	138811.900	2.0	148249.100	3.0
1059.3461	13.01	-2.38	138811.900	3.0	148249.100	3.0
1059.3506	6.00	-2.16	68856.330	1.0	78293.490	1.0
1059.3562	18.01	-4.43	192712.000	1.5	202149.110	2.5
1059.3717	10.00	-2.38	163038.351	2.0	172475.323	2.0
1059.3765	20.02	-2.06	373626.850	2.0	383063.780	3.0
1059.3910	13.01	-2.01	138811.900	2.0	148248.700	2.0
1059.3910	13.01	-1.28	138811.900	1.0	148248.700	2.0
1059.3910	13.01	-3.56	138811.900	3.0	148248.700	2.0
1059.4280	24.00	-2.19	48558.570	2.0	57995.040	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1059.4527	8.01	-2.20	246028.950	3.5	255465.200	3.5
1059.4734	17.00	-1.35	90749.360	2.5	100185.426	2.5
1059.4859	22.00	-2.71	26772.965	5.0	36208.920	4.0
1059.4965	17.00	-3.68	90749.360	2.5	100185.220	1.5
1059.5280	25.00	-3.13	59257.440	4.5	68693.020	5.5
1059.5897	28.01	-4.03	105439.850	1.5	114874.880	2.5
1059.6268	8.01	-2.35	256143.300	3.5	265578.000	3.5
1059.6425	28.01	-1.29	121699.020	1.5	131133.580	2.5
1059.6437	9.02	-4.73	458392.610	1.5	467827.160	1.5
1059.6515	20.02	-3.79	373626.850	2.0	383061.330	2.0
1059.6860	7.00	.76	110715.152	3.5	120149.325	4.5
1059.6864	15.00	-.21	55939.300	.5	65373.470	.5
1059.6958	7.00	-.78	110715.152	3.5	120149.238	3.5
1059.7249	22.00	-4.28	17369.590	1.0	26803.417	2.0
1059.7739	6.00	-3.33	77679.820	2.0	87113.210	2.0
1059.7800	14.00	-2.73	54185.264	1.0	63618.600	0.0
1059.8279	27.00	-2.70	43537.710	1.5	52970.620	2.5
1059.8357	28.01	-2.72	106133.140	1.5	115565.980	2.5
1059.8492	24.00	-2.31	47917.930	2.0	57350.650	2.0
1059.9077	25.00	-4.33	57305.620	3.5	66737.820	3.5
1059.9122	22.00	-4.76	25102.880	2.0	34535.040	2.0
1059.9402	27.00	-2.26	43911.360	1.5	53343.270	1.5
1059.9616	10.01	-1.72	294086.490	1.5	303518.210	1.5
1060.0459	27.00	-2.52	43425.710	2.5	52856.680	3.5
1060.0515	17.00	-1.47	88272.720	.5	97703.640	1.5
1060.0953	25.00	-1.68	52870.100	3.5	62300.630	4.5
1060.0988	9.02	-3.19	380307.130	1.5	389737.630	.5
1060.1269	18.01	-2.23	202155.860	2.5	211586.110	2.5
1060.1414	18.02	-4.33	243145.760	2.0	252575.880	1.0
1060.2019	28.00	-3.22	42767.900	3.0	52197.482	3.0
1060.2111	28.01	-3.45	110573.360	2.5	120002.860	3.5
1060.2316	20.00	-1.99	39333.382	0.0	48762.700	1.0
1060.2730	28.01	-1.87	92325.850	3.5	101754.800	2.5
1060.2816	14.00	-2.33	47351.554	2.0	56780.427	1.0
1060.2932	7.01	-3.32	211287.230	3.0	220716.000	3.0
1060.2977	28.01	-2.09	101144.630	3.5	110573.360	2.5
1060.3123	6.00	-4.12	78731.270	1.0	88159.870	0.0
1060.3425	14.00	-.38	39760.285	1.0	49188.617	2.0
1060.3641	7.00	-2.17	94793.460	1.5	104221.600	1.5
1060.4147	20.02	-3.04	350779.470	3.0	360207.160	2.0
1060.4222	22.00	-4.29	25107.417	2.0	34535.040	2.0
1060.4498	20.00	-2.07	39335.322	1.0	48762.700	1.0
1060.4498	20.00	-1.82	39335.322	1.0	48762.700	2.0
1060.5429	10.01	-.05	282375.330	1.5	291801.880	1.5
1060.6059	25.00	-3.16	59290.230	3.5	68716.220	4.5
1060.6565	7.00	-3.49	106814.459	2.5	116240.000	1.5
1060.6565	7.00	-2.82	106814.459	2.5	116240.000	2.5
1060.6566	24.01	-4.27	55023.300	2.5	64448.840	2.5
1060.6836	29.01	-3.22	139217.300	2.0	148642.600	2.0
1060.7342	10.01	-1.15	280947.100	1.5	290371.950	2.5
1060.7669	25.00	-1.91	52870.100	3.5	62294.660	3.5
1060.7669	18.01	-1.21	186890.950	2.5	196315.510	2.5
1060.7684	22.00	-2.60	6842.964	5.0	16267.510	5.0
1060.8749	17.01	-3.38	165362.100	0.0	174785.700	1.0
1060.9087	6.00	-4.52	77679.820	2.0	87103.120	1.0
1060.9132	24.00	-4.96	35862.820	4.0	45286.080	4.0
1060.9143	25.01	-4.96	62587.500	3.0	72010.750	4.0
1060.9200	29.01	-.23	138593.100	1.0	148016.300	1.0
1060.9447	9.02	-4.98	457555.170	1.5	466978.150	1.5
1060.9650	8.02	-2.19	367952.200	1.0	377375.000	2.0
1060.9661	23.00	-3.01	17181.980	4.5	26604.770	3.5
1060.9785	23.00	-1.81	33155.300	4.5	42577.980	5.5
1060.9841	24.00	-3.25	36577.730	4.0	46000.360	3.0
1060.9853	20.00	-3.16	39340.080	2.0	48762.700	1.0
1060.9853	20.00	-2.23	39340.080	2.0	48762.700	2.0
1060.9853	20.00	-1.38	39340.080	2.0	48762.700	3.0
1060.9943	21.00	-5.84	11610.240	3.5	21032.780	2.5
1061.0498	10.00	-4.42	162408.653	2.0	171830.700	1.0
1061.0889	17.01	-4.12	152233.100	2.0	161654.800	1.0
1061.1204	28.01	-4.46	129419.580	4.5	138841.000	3.5
1061.1249	27.00	-3.94	43921.890	2.5	53343.270	1.5
1061.1359	10.00	-4.92	161636.617	1.0	171057.900	1.0
1061.1508	7.01	-1.84	211294.850	4.0	220716.000	3.0
1061.1700	23.00	-4.56	15571.900	2.5	24992.880	3.5
1061.1970	18.01	-2.20	194996.490	1.5	204417.230	1.5
1061.2072	17.00	-2.41	90749.360	2.5	100170.010	2.5
1061.2263	17.00	-.77	90749.360	2.5	100169.840	3.5
1061.2353	23.00	-3.43	14514.750	1.5	23935.150	2.5
1061.2475	22.00	-3.55	37617.868	4.0	47038.160	3.0
1061.2623	24.00	-4.39	35934.020	6.0	45354.180	5.0
1061.3193	26.00	-4.47	35257.309	4.0	44676.963	4.0
1061.3344	28.00	-4.22	42621.048	3.0	52040.568	2.0
1061.4020	18.01	-1.72	190106.230	1.5	199525.150	1.5
1061.4268	28.00	-1.67	45281.152	3.0	54699.852	3.0
1061.4302	18.01	-1.71	190732.970	.5	200151.640	1.5
1061.4381	29.01	-1.96	137077.600	3.0	146496.200	3.0
1061.4719	18.01	-.49	181594.050	2.5	191012.350	1.5
1061.4916	10.00	-4.22	162410.174	3.0	171828.300	2.0
1061.5114	9.02	-2.32	431967.930	.5	441385.880	1.5
1061.5824	18.00	-1.09	114641.040	2.0	124058.360	3.0
1061.6345	17.00	-1.43	90749.360	2.5	100166.217	3.5
1061.6658	28.01	-3.87	105668.780	2.5	115085.360	3.5
1061.6692	27.00	-2.26	47128.960	2.5	56545.510	2.5
1061.6752	26.00	-3.37	26351.049	5.0	35767.546	4.0
1061.6849	18.01	-3.36	202155.860	2.5	211572.270	1.5
1061.6861	29.01	-1.65	136799.300	2.0	146215.700	1.0
1061.6901	28.00	-4.37	40361.254	3.0	49777.619	3.0
1061.7099	14.00	-3.78	47284.061	1.0	56700.250	1.0
1061.7233	23.00	-2.75	32988.820	3.5	42404.890	3.5
1061.7421	26.00	-3.21	44415.057	4.0	53830.960	3.0
1061.7778	22.00	-2.98	37622.573	3.0	47038.160	3.0
1061.7989	27.00	-3.77	43555.220	3.5	52970.620	2.5
1061.7994	26.00	-3.30	44551.325	3.0	53966.720	2.0
1061.8767	24.00	-2.46	35934.020	6.0	45348.730	6.0
1061.9207	24.00	-3.21	36552.130	3.0	45966.450	2.0
1061.9342	13.01	.05	133435.000	2.0	142849.200	3.0
1061.9467	18.01	.36	186890.950	2.5	196305.040	3.5
1061.9681	29.01	-.81	139217.300	2.0	148631.200	3.0
1062.0171	26.00	-3.36	44511.795	2.0	53925.260	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1062.0222	25.00	-2.31	47154.510	1.5	56567.930	1.5
1062.0628	18.00	-4.97	114641.040	2.0	124054.100	3.0
1062.0664	10.00	-1.27	150121.592	1.0	159534.620	1.0
1062.2050	15.01	-.71	129110.600	1.0	138522.400	1.0
1062.2061	10.01	-1.33	281171.380	2.5	290583.170	1.5
1062.2501	25.00	-3.63	53103.190	1.5	62514.590	2.5
1062.2610	26.00	-4.75	49108.876	4.0	58520.180	4.0
1062.2728	7.00	-2.71	106477.800	.5	115889.000	.5
1062.2728	7.00	-2.32	106477.800	.5	115889.000	1.5
1062.3190	25.00	-1.80	52883.870	2.5	62294.660	3.5
1062.3190	7.00	-.73	95475.280	.5	104886.070	.5
1062.3394	18.00	-1.77	114641.040	2.0	124051.650	2.0
1062.3630	18.00	-3.07	114641.040	2.0	124051.440	3.0
1062.4319	23.00	-4.98	32660.260	2.5	42070.050	2.5
1062.4985	7.00	-3.00	106477.800	.5	115887.000	.5
1062.4985	7.00	-3.67	106477.800	.5	115887.000	1.5
1062.5177	23.00	-4.89	13801.530	1.5	23210.560	2.5
1062.5437	13.01	-1.01	133440.400	3.0	142849.200	3.0
1062.5437	13.01	-.05	133440.400	3.0	142849.200	4.0
1062.5437	13.01	-.24	133440.400	3.0	142849.200	4.0
1062.5550	15.00	-2.65	68246.500	2.5	77655.200	3.5
1062.5742	21.00	-5.12	11677.310	4.5	21085.840	3.5
1062.5810	25.00	-4.40	35114.980	2.5	44523.450	3.5
1062.6228	8.01	-2.60	255812.200	1.5	265220.300	1.5
1062.6228	8.01	-4.98	255812.200	1.5	265220.300	2.5
1062.6431	26.02	-4.29	201207.290	4.0	210615.210	3.0
1062.6453	24.00	-2.64	36558.550	2.0	45966.450	2.0
1062.6671	22.00	-4.87	37622.573	3.0	47030.280	3.0
1062.6732	22.00	-3.58	38699.767	2.0	48107.420	2.0
1062.7244	8.01	-2.22	255813.100	2.5	265220.300	1.5
1062.7545	22.00	-4.69	19421.576	3.0	28828.510	2.0
1062.7640	22.00	-2.88	24921.110	1.0	34327.960	1.0
1062.7648	14.00	0.00	47284.061	1.0	56690.903	2.0
1062.7764	23.00	-4.50	15724.220	3.5	25130.960	2.5
1062.7978	28.01	-3.94	111783.790	3.5	121190.340	4.5
1062.8159	18.01	-1.72	185624.730	3.5	195031.120	2.5
1062.8668	10.01	-1.46	292651.320	1.5	302057.260	.5
1062.8803	23.01	-2.66	63816.900	3.0	73222.720	4.0
1062.8803	18.01	-2.87	172816.210	.5	182222.030	1.5
1062.9233	28.01	-3.76	121325.090	2.5	130730.530	2.5
1062.9281	26.00	-4.63	47377.909	4.0	56783.306	3.0
1062.9301	25.00	-2.89	53109.210	2.5	62514.590	2.5
1062.9426	7.00	-3.03	106758.731	.5	116164.000	.5
1062.9426	7.00	-3.22	106758.731	.5	116164.000	1.5
1062.9900	25.00	-2.58	48300.980	1.5	57705.830	.5
1063.0069	8.01	-3.55	245767.800	.5	255172.500	1.5
1063.0160	22.00	-3.92	38654.230	1.0	48058.850	1.0
1063.0357	18.00	-3.69	116660.054	1.0	126064.500	2.0
1063.0555	27.00	-4.48	46002.830	2.5	55407.100	1.5
1063.0679	28.01	-.59	121699.020	1.5	131103.180	2.5
1063.0860	13.01	-1.67	123415.900	2.0	132819.900	2.0
1063.0860	13.01	-.94	123415.900	2.0	132819.900	1.0
1063.0938	7.00	-2.97	107037.069	2.5	116441.000	1.5
1063.0938	7.00	-2.22	107037.069	2.5	116441.000	2.5
1063.0939	10.01	-3.06	292451.780	1.5	301855.710	2.5
1063.1086	13.01	-3.22	123415.900	2.0	132819.700	3.0
1063.1357	6.00	-2.64	61981.820	1.0	71385.380	2.0
1063.1358	24.00	-.21	47985.760	5.0	57389.320	6.0
1063.1776	27.00	-5.00	45111.480	4.5	54514.670	3.5
1063.2262	26.00	-3.57	44664.061	2.0	54066.821	2.0
1063.2375	28.01	-3.93	100619.260	4.5	110021.920	4.5
1063.2579	26.00	-3.02	44166.240	3.0	53568.720	2.0
1063.2875	10.00	-4.37	162419.982	2.0	171822.200	1.0
1063.2884	24.00	-2.11	48661.590	3.0	58063.800	2.0
1063.3033	10.00	-4.89	161607.261	2.0	171009.340	1.0
1063.3080	16.00	.40	69236.936	2.0	78638.973	3.0
1063.3209	9.00	-1.94	118936.797	1.5	128338.720	.5
1063.3235	13.01	-2.81	133447.300	4.0	142849.200	3.0
1063.3235	13.01	-1.25	133447.300	4.0	142849.200	4.0
1063.3235	13.01	-1.38	133447.300	4.0	142849.200	4.0
1063.3235	13.01	.28	133447.300	4.0	142849.200	5.0
1063.3235	13.01	-.77	123418.000	3.0	132819.900	2.0
1063.3287	14.00	-4.37	49399.670	1.0	58801.524	1.0
1063.3325	25.00	-1.95	47903.800	4.5	57305.620	3.5
1063.3348	17.01	-3.63	152233.100	2.0	161634.900	2.0
1063.3461	13.01	-1.67	123418.000	3.0	132819.700	3.0
1063.3529	23.01	-7.61	25191.080	2.0	34592.720	2.0
1063.3903	18.00	-4.90	114975.070	1.0	124376.380	1.0
1063.3914	10.01	-1.98	292546.700	.5	301948.000	1.5
1063.4094	28.01	-2.67	127331.600	2.5	136732.740	1.5
1063.4253	29.01	-1.25	139241.600	1.0	148642.600	2.0
1063.4328	18.00	-2.22	111667.870	0.0	121068.804	1.0
1063.4490	22.00	-3.18	33680.130	3.0	43080.920	2.0
1063.4999	18.00	-4.27	114641.040	2.0	124041.380	2.0
1063.5203	18.00	-3.04	114641.040	2.0	124041.200	1.0
1063.6594	7.00	-3.40	107037.069	2.5	116436.000	1.5
1063.6594	7.00	-3.67	107037.069	2.5	116436.000	2.5
1063.6629	13.01	-.61	123420.800	4.0	132819.700	3.0
1063.6833	24.00	-4.98	33040.100	2.0	42438.820	2.0
1063.7138	8.01	-3.59	245902.850	2.5	255301.300	2.5
1063.7285	23.00	-1.84	33155.300	4.5	42553.620	4.5
1063.7353	18.01	.33	199525.150	1.5	208923.410	2.5
1063.7364	24.00	-1.54	47974.530	3.0	57372.780	4.0
1063.7408	7.00	-3.32	107182.788	1.5	116581.000	.5
1063.7408	7.00	-4.28	107182.788	1.5	116581.000	1.5
1063.7408	7.00	-2.03	107182.788	1.5	116581.000	2.5
1063.8112	18.01	.38	189414.960	3.5	198812.550	2.5
1063.8587	24.00	-1.33	47985.760	5.0	57382.930	5.0
1063.9119	17.01	-4.66	161654.800	1.0	171051.500	1.0
1063.9607	7.00	-4.69	106758.731	.5	116155.000	.5
1063.9607	7.00	-2.23	106758.731	.5	116155.000	1.5
1063.9855	18.01	-.63	199525.150	1.5	208921.200	1.5
1064.0070	28.01	-1.75	108368.050	2.5	117763.910	1.5
1064.0421	21.00	-4.15	31275.320	3.5	40670.870	4.5
1064.0637	24.00	-.50	27500.370	3.0	36895.730	3.0
1064.1271	8.01	-2.21	245767.800	.5	255162.600	.5
1064.1441	27.00	-4.65	44394.470	3.5	53789.120	3.5
1064.1497	29.01	.43	138593.100	1.0	147987.700	2.0
1064.1826	27.00	-2.51	44394.470	3.5	53788.780	4.5
1064.2165	18.01	-2.91	191012.350	1.5	200406.360	.5
1064.3979	7.00	-.53	95493.660	1.5	104886.070	.5
1064.5690	8.01	-3.13	255829.400	3.5	265220.300	2.5
1064.5871	7.00	-1.87	94830.860	2.5	104221.600	1.5
1064.6296	7.00	-3.25	106868.635	3.5	116259.000	2.5
1064.6599	22.00	-1.00	29912.262	3.0	39302.360	4.0
1064.6676	23.01	-2.46	64026.600	4.0	73416.630	5.0
1064.6937	15.01	-1.37	130020.400	3.0	139410.200	2.0
1064.7606	24.00	-1.89	24282.340	4.0	33671.550	3.0
1064.7890	23.00	-3.58	17116.920	3.5	26505.880	2.5
1064.8343	26.00	-4.22	45294.830	5.0	54683.390	4.0
1064.8684	21.00	-4.07	31215.760	2.5	40604.020	3.5
1064.9308	25.00	-3.70	48318.120	.5	57705.830	.5
1064.9387	22.00	-3.43	29914.720	3.0	39302.360	4.0
1064.9727	18.02	-4.99	204563.530	1.0	213950.870	2.0
1065.0090	24.00	-3.00	47985.760	5.0	57372.780	4.0
1065.0289	28.00	-3.39	42653.723	2.0	52040.568	2.0
1065.0367	28.00	-.88	45281.152	3.0	54667.928	4.0
1065.0442	24.00	-2.36	47974.530	3.0	57361.240	3.0
1065.0522	25.00	-3.35	57621.900	1.5	67008.540	2.5
1065.0658	7.00	-2.42	106980.480	.5	116367.000	.5
1065.0658	7.00	-4.04	106980.480	.5	116367.000	1.5
1065.0885	23.00	-3.39	14548.830	2.5	23935.150	2.5
1065.1032	28.01	-2.64	107082.210	2.5	116468.400	1.5
1065.1123	18.01	-.90	195031.120	2.5	204417.230	1.5
1065.1630	7.00	-3.14	106778.337	1.5	116164.000	.5
1065.1630	7.00	-3.17	106778.337	1.5	116164.000	1.5
1065.1630	7.00	-2.36	106778.337	1.5	116164.000	2.5
1065.2232	26.00	-4.83	50979.627	4.0	60364.760	3.0
1065.2254	26.00	-3.47	44183.607	2.0	53568.720	2.0
1065.2724	8.01	-2.19	256083.500	1.5	265468.200	1.5
1065.3041	7.00	-.17	95475.280	.5	104859.700	1.5
1065.3233	28.00	-3.67	42656.317	1.0	52040.568	2.0
1065.4562	6.00	-4.14	61981.820	1.0	71364.900	1.0
1065.4665	18.00	-2.52	115366.900	1.0	124749.890	0.0
1065.4869	23.00	-4.46	17054.870	2.5	26437.680	1.5
1065.4903	8.01	-3.42	238626.320	.5	248009.100	1.5
1065.5221	29.01	-3.56	129759.600	1.0	139142.100	2.0
1065.5312	10.01	-1.95	280989.530	1.5	290371.950	2.5
1065.5380	21.00	-4.23	31172.620	1.5	40554.980	2.5
1065.5471	18.01	-4.61	182951.150	.5	192333.430	.5
1065.5857	26.01	-2.54	54904.500	3.5	64286.440	3.5
1065.6175	18.00	-4.76	114975.070	1.0	124356.730	2.0
1065.6504	23.00	-4.28	34537.210	1.5	43918.580	2.5
1065.6584	28.01	-4.31	121561.060	.5	130942.360	1.5
1065.7307	7.00	-2.36	106778.337	1.5	116159.000	2.5
1065.7374	22.00	-1.17	29768.655	2.0	39149.260	2.0
1065.7379	8.01	-4.38	256087.600	2.5	265468.200	1.5
1065.7493	17.01	-4.53	161671.000	0.0	171051.500	1.0
1065.8468	26.00	-3.06	44166.240	3.0	53545.882	3.0
1065.8556	22.00	-3.22	17423.853	2.0	26803.417	2.0
1065.9664	18.01	-4.36	199959.620	2.5	209338.210	3.5
1066.0076	22.00	-3.45	33655.853	2.0	43034.080	1.0
1066.0095	27.00	-2.68	43537.710	1.5	52915.920	.5
1066.0184	22.00	-4.31	19573.968	4.0	28952.100	4.0
1066.0254	27.00	-2.02	27497.060	2.5	36875.130	1.5
1066.0334	26.02	-4.51	188955.560	3.0	198333.560	2.0
1066.0972	14.00	-.35	39683.163	0.0	49060.601	1.0
1066.1004	18.01	-.73	190732.970	.5	200110.380	.5
1066.1220	8.00	-2.49	99092.980	1.0	108470.200	0.0
1066.1220	8.00	-2.14	99092.980	1.0	108470.200	1.0
1066.1220	8.00	-2.25	99092.980	1.0	108470.200	2.0
1066.1243	7.00	-3.09	106477.800	.5	115855.000	.5
1066.1243	7.00	-3.39	106477.800	.5	115855.000	1.5
1066.1641	27.00	-3.92	43398.620	3.5	52775.470	4.5
1066.1652	22.00	-1.92	6598.749	2.0	15975.590	3.0
1066.1744	28.01	-1.01	121699.020	1.5	131075.780	1.5
1066.1846	25.00	-4.25	59339.550	3.5	68716.220	4.5
1066.1854	7.00	-4.68	106778.337	1.5	116155.000	.5
1066.1854	7.00	-3.32	106778.337	1.5	116155.000	1.5
1066.1986	8.00	-2.62	99093.653	2.0	108470.200	1.0
1066.1986	8.00	-2.03	99093.653	2.0	108470.200	2.0
1066.1986	8.00	-1.82	99093.653	2.0	108470.200	3.0
1066.2039	9.02	-4.89	458392.610	1.5	467769.110	.5
1066.2221	25.00	-1.50	52758.110	4.5	62134.450	5.5
1066.2471	24.00	-3.86	47974.530	3.0	57350.650	2.0
1066.2710	8.02	-1.56	357111.000	2.0	366486.910	1.0
1066.3165	22.00	-4.88	37654.770	2.0	47030.280	3.0
1066.3346	8.00	-2.97	99094.849	3.0	108470.200	2.0
1066.3346	8.00	-2.13	99094.849	3.0	108470.200	3.0
1066.3346	8.00	-1.54	99094.849	3.0	108470.200	4.0
1066.3973	23.00	-4.84	32988.820	3.5	42363.620	3.5
1066.4951	7.00	-1.40	94770.850	.5	104144.790	.5
1066.4962	24.00	-3.00	35501.260	3.0	44875.190	2.0
1066.5076	18.00	-3.08	111818.090	1.0	121191.920	2.0
1066.5907	8.01	-2.72	245767.800	.5	255140.900	1.5
1066.6533	8.01	-3.38	248425.350	.5	257797.900	1.5
1066.7000	18.01	-4.21	199879.320	3.5	209251.460	3.5
1066.7102	25.02	-4.54	208743.100	2.5	218115.150	3.5
1066.7280	7.00	-3.09	107253.106	2.5	116625.000	1.5
1066.7280	7.00	-1.03	107253.106	2.5	116625.000	2.5
1066.7454	26.00	-2.72	44760.739	1.0	54132.480	1.0
1066.7546	24.00	-1.77	24299.890	2.0	33671.550	3.0
1066.7600	2.00	-1.14	185565.000	0.0	194939.180	0.0
1066.7881	7.00	-3.06	106868.635	3.5	116240.000	2.5
1066.8073	26.00	-2.60	44022.518	4.0	53393.715	4.0
1066.8333	7.00	-3.47	106996.032	1.5	116367.000	.5
1066.8333	7.00	-3.94	106996.032	1.5	116367.000	1.5
1066.8333	7.00	-2.81	106996.032	1.5	116367.000	2.5
1066.8411	17.01	-4.64	161634.900	2.0	171005.800	2.0
1066.8650	6.00	-3.97	61981.820	1.0	71352.510	0.0
1066.8843	7.00	-4.06	106980.480	.5	116351.000	.5
1066.8843	7.00	-2.50	106980.480	.5	116351.000	1.5
1066.9231	28.01	-2.27	100475.820	3.5	109846.000	3.5
1066.9743	9.00	-4.81	128220.360	3.5	137590.090	2.5
1066.9937	23.01	-2.69	63657.200	2.0	73026.760	2.0
1067.0142	28.01	-4.10	127219.970	3.5	136589.350	3.5
1067.1110	24.00	-.34	48014.400	4.0	57382.930	5.0
1067.1565	18.01	-.96	190511.190	2.5	199879.320	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1067.1609	11.00	-4.24	29172.839	2.5	38540.930	1.5
1067.2158	24.00	-1.66	24303.940	3.0	33671.550	3.0
1067.2521	11.00	-4.49	29172.889	1.5	38540.180	.5
1067.2693	24.01	-3.96	55081.700	1.5	64448.840	2.5
1067.3252	28.01	-4.69	121294.670	4.5	130661.320	5.5
1067.3530	18.00	-.35	104102.144	1.0	113468.550	2.0
1067.3696	28.01	-3.64	121325.090	2.5	130691.350	1.5
1067.3844	10.00	-1.25	161509.630	0.0	170875.760	1.0
1067.3947	7.00	-2.13	95493.660	1.5	104859.700	1.5
1067.4414	25.01	-3.95	67008.930	3.0	76374.560	2.0
1067.4460	27.00	-4.72	45111.480	4.5	54477.070	3.5
1067.4826	7.00	-3.16	106758.731	.5	116124.000	.5
1067.4826	7.00	-3.46	106758.731	.5	116124.000	1.5
1067.5064	27.00	-4.02	43398.620	3.5	52763.680	3.5
1067.5326	28.01	-1.44	121699.020	1.5	131063.850	.5
1067.5668	8.00	-2.39	97420.642	4.0	106785.172	3.0
1067.5668	8.00	-1.21	97420.642	4.0	106785.172	4.0
1067.5668	8.00	-.35	97420.642	4.0	106785.172	5.0
1067.5719	8.00	-3.99	97420.728	3.0	106785.213	2.0
1067.5719	8.00	-2.45	97420.728	3.0	106785.213	3.0
1067.5719	8.00	-1.39	97420.728	3.0	106785.213	4.0
1067.5761	22.00	-3.99	31829.972	4.0	41194.420	3.0
1067.5766	8.00	-2.14	97420.728	3.0	106785.172	2.0
1067.5766	8.00	-1.12	97420.728	3.0	106785.172	3.0
1067.5766	8.00	-.57	97420.728	3.0	106785.172	4.0
1067.5859	8.00	-2.77	97420.851	2.0	106785.213	2.0
1067.5859	8.00	-1.87	97420.851	2.0	106785.213	3.0
1067.5906	8.00	-2.11	97420.851	2.0	106785.172	1.0
1067.5906	8.00	-1.11	97420.851	2.0	106785.172	2.0
1067.5906	8.00	-.73	97420.851	2.0	106785.172	3.0
1067.5977	8.00	-2.53	97420.954	1.0	106785.213	2.0
1067.6023	8.00	-1.25	97420.954	1.0	106785.172	1.0
1067.6023	8.00	-.95	97420.954	1.0	106785.172	2.0
1067.6044	7.00	-3.49	106477.800	.5	115842.000	.5
1067.6044	7.00	-2.99	106477.800	.5	115842.000	1.5
1067.6079	8.00	-1.24	97421.003	0.0	106785.172	1.0
1067.6785	25.02	-3.42	208751.600	4.5	218115.150	3.5
1067.7002	23.00	-3.60	17116.920	3.5	26480.280	3.5
1067.7044	22.00	-2.45	6742.757	4.0	16106.080	4.0
1067.7449	7.00	-2.84	106996.032	1.5	116359.000	2.5
1067.7838	10.00	-3.70	162899.113	2.0	172261.740	1.0
1067.7869	29.01	-1.58	137212.700	1.0	146575.300	2.0
1067.8325	28.01	-4.75	89460.350	5.5	98822.550	6.5
1067.8416	28.01	-3.21	109269.830	1.5	118631.950	.5
1068.0892	23.01	-2.95	30641.710	3.0	40001.660	2.0
1068.1326	15.00	-.10	56090.450	1.5	65450.020	1.5
1068.1643	22.00	-4.71	17995.750	0.0	27355.042	1.0
1068.1764	18.00	-.56	105462.804	3.0	114821.990	3.0
1068.1881	22.00	-4.63	38699.767	2.0	48058.850	1.0
1068.2240	10.00	-4.47	161701.451	3.0	171060.220	2.0
1068.2373	26.00	-2.73	38678.015	2.0	48036.667	2.0
1068.2684	24.00	-1.24	48014.400	4.0	57372.780	4.0
1068.2844	10.00	-4.59	161699.661	2.0	171057.900	1.0
1068.3037	18.01	-2.12	147875.860	2.5	157233.930	3.5
1068.3083	6.00	.07	60352.630	1.0	69710.660	2.0
1068.3157	26.00	-4.55	29320.050	1.0	38678.015	2.0
1068.3323	25.00	-4.08	57485.970	2.5	66843.790	1.5
1068.3397	18.00	-1.69	105617.315	2.0	114975.070	1.0
1068.4846	10.00	-2.32	161524.174	1.0	170880.660	2.0
1068.4859	22.00	-2.88	18061.540	1.0	27418.015	2.0
1068.5013	7.00	-4.85	86137.320	.5	95493.660	1.5
1068.5161	8.01	-2.15	245816.290	1.5	255172.500	1.5
1068.5344	6.00	-.29	60333.430	0.0	69689.480	1.0
1068.5744	13.01	-.21	133914.100	2.0	143269.800	3.0
1068.6579	7.00	-3.33	106996.032	1.5	116351.000	.5
1068.6579	7.00	-2.80	106996.032	1.5	116351.000	1.5
1068.6600	25.00	-2.84	53124.090	3.5	62479.040	4.5
1068.7030	26.00	-3.66	42859.756	2.0	52214.330	1.0
1068.7592	28.00	-1.20	45418.858	2.0	54772.940	3.0
1068.7728	26.00	-2.75	44415.057	4.0	53769.020	4.0
1068.8588	23.00	-1.95	20767.570	3.5	30120.780	2.5
1068.9147	22.00	-2.91	17540.205	3.0	26892.926	3.0
1068.9194	28.01	-2.53	93390.060	2.5	102742.740	1.5
1068.9455	22.00	.05	30060.328	4.0	39412.780	5.0
1068.9717	14.00	-.19	48020.074	1.0	57372.297	2.0
1069.0200	13.01	-3.41	123468.100	3.0	132819.900	2.0
1069.0349	25.00	-3.52	57485.970	2.5	66837.640	2.5
1069.0394	17.00	-2.19	91538.500	1.5	100890.130	2.5
1069.0428	13.01	-4.31	123468.100	3.0	132819.700	3.0
1069.0444	10.00	-1.41	161524.174	1.0	170875.760	1.0
1069.0444	10.00	-.90	161524.174	1.0	170875.760	2.0
1069.0737	7.00	-1.40	94793.460	1.5	104144.790	.5
1069.1000	22.00	-3.61	12118.394	4.0	21469.494	3.0
1069.1092	23.00	-3.39	33155.300	4.5	42506.320	4.5
1069.1114	17.01	-4.19	161654.800	1.0	171005.800	2.0
1069.1126	25.00	-2.16	48270.910	2.5	57621.900	1.5
1069.1240	6.00	.36	60393.140	2.0	69744.030	3.0
1069.1326	28.00	-3.33	46522.965	2.0	55873.780	2.0
1069.1595	27.00	-3.29	42811.440	3.5	52162.020	3.5
1069.1892	22.01	-6.32	25193.040	2.5	34543.360	3.5
1069.2189	25.00	-3.61	34938.700	4.5	44288.760	4.5
1069.2711	26.00	-4.96	24772.019	1.0	34121.623	0.0
1069.2783	7.00	-3.46	106814.459	2.5	116164.000	1.5
1069.2783	7.00	-2.51	106814.459	2.5	116164.000	2.5
1069.2783	7.00	-2.73	106814.459	2.5	116164.000	3.5
1069.2807	27.00	-2.00	41918.410	3.5	51267.930	4.5
1069.3173	7.00	-.44	95532.120	2.5	104881.320	3.5
1069.3871	21.00	-3.68	31172.620	1.5	40521.210	1.5
1069.4238	7.00	-2.94	106758.731	.5	116107.000	.5
1069.4238	7.00	-4.44	106758.731	.5	116107.000	1.5
1069.4251	14.00	-.06	48102.323	2.0	57450.580	3.0
1069.4259	17.00	-2.50	92194.190	1.5	101542.440	1.5
1069.4545	8.01	-3.33	256083.500	1.5	265431.500	2.5
1069.4694	9.02	-2.03	431967.930	.5	441315.800	.5
1069.5873	24.00	-2.68	48014.400	4.0	57361.240	3.0
1069.6159	27.00	-3.36	43425.710	2.5	52772.300	2.5
1069.6480	8.01	-1.36	245816.290	1.5	255162.600	.5
1069.6823	10.01	-.97	281025.940	2.5	290371.950	2.5
1069.7063	29.01	-2.54	137077.600	3.0	146423.400	4.0
WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1069.7219	7.00	-3.16	106778.337	1.5	116124.000	.5
1069.7219	7.00	-2.65	106778.337	1.5	116124.000	1.5
1069.7219	7.00	-3.88	106778.337	1.5	116124.000	2.5
1069.7383	20.02	-3.11	331403.200	1.0	340748.720	2.0
1069.7922	25.01	-4.11	72648.800	4.0	81993.850	4.0
1069.8288	28.01	-4.26	121385.800	1.5	130730.530	2.5
1069.8504	7.00	-4.21	106814.459	2.5	116159.000	2.5
1069.8504	7.00	-2.30	106814.459	2.5	116159.000	3.5
1069.9091	10.00	-4.88	161699.661	2.0	171043.690	2.0
1069.9238	8.01	-3.70	256087.600	2.5	265431.500	2.5
1069.9653	20.00	-2.05	39333.382	0.0	48676.920	1.0
1069.9822	24.00	-3.76	48824.500	4.0	58167.890	4.0
1069.9914	25.02	-2.11	209032.300	5.5	218375.610	4.5
1069.9971	23.00	-3.01	15571.900	2.5	24915.160	1.5
1070.0567	6.00	-1.81	68856.330	1.0	78199.070	2.0
1070.0741	22.00	-4.71	38764.832	3.0	48107.420	2.0
1070.0956	8.01	-1.43	256125.800	2.5	265468.200	1.5
1070.0983	18.00	-1.44	105462.804	3.0	114805.180	2.0
1070.1133	22.00	-2.43	37852.434	4.0	47194.680	4.0
1070.1414	29.01	-1.03	139217.300	2.0	148559.300	2.0
1070.1678	27.00	-4.92	45971.190	3.5	55312.960	4.5
1070.1875	20.00	-2.13	39335.322	1.0	48676.920	1.0
1070.1875	20.00	-1.88	39335.322	1.0	48676.920	2.0
1070.2812	23.00	-4.93	15770.720	4.5	25111.500	4.5
1070.3086	7.00	-4.95	106814.459	2.5	116155.000	1.5
1070.3351	18.01	-2.08	190106.230	1.5	199446.540	.5
1070.3429	14.00	-3.00	49850.830	2.0	59191.072	2.0
1070.3534	26.02	-4.17	213457.820	7.0	222797.970	8.0
1070.4130	14.00	-2.40	49850.830	2.0	59190.460	1.0
1070.4600	21.00	-3.58	31215.760	2.5	40554.980	2.5
1070.5058	17.00	-1.90	92194.190	1.5	101533.010	2.5
1070.5104	17.00	-2.89	92194.190	1.5	101532.970	1.5
1070.5196	17.01	-3.90	161634.900	2.0	170973.600	3.0
1070.5316	22.00	-2.16	29768.655	2.0	39107.250	1.0
1070.5620	22.00	-3.52	39686.100	2.0	49024.430	3.0
1070.5884	29.01	-2.36	137077.600	3.0	146415.700	2.0
1070.6033	27.00	-3.37	43425.710	2.5	52763.680	3.5
1070.6274	28.01	-4.44	129503.240	4.5	138841.000	3.5
1070.6480	28.01	-4.93	105499.050	3.5	114836.630	3.5
1070.7317	6.00	-.39	60352.630	1.0	69689.480	1.0
1070.7329	20.00	-3.22	39340.080	2.0	48676.920	1.0
1070.7329	20.00	-2.30	39340.080	2.0	48676.920	2.0
1070.7329	20.00	-1.45	39340.080	2.0	48676.920	3.0
1070.7355	26.00	-4.84	44676.963	4.0	54013.780	5.0
1070.7879	28.01	-3.16	110573.360	2.5	119909.720	1.5
1070.7971	25.00	-1.80	47154.510	1.5	56490.790	2.5
1070.8085	28.01	-3.56	106620.530	3.5	115956.710	2.5
1070.9682	26.00	-4.57	45220.662	3.0	54555.450	4.0
1070.9817	10.01	-2.55	303508.480	1.5	312843.150	2.5
1070.9844	22.00	-2.82	18145.400	2.0	27480.047	3.0
1070.9898	10.01	-1.81	303508.480	1.5	312843.080	1.5
1071.0036	6.00	-4.24	79310.850	2.0	88645.330	1.0
1071.0036	6.00	-3.26	79310.850	2.0	88645.330	2.0
1071.0036	56.01	-2.87	57390.930	0.0	66727.967	0.0
1071.0288	26.01	-.86	78237.540	3.5	87571.800	2.5
1071.1011	10.01	-1.62	303509.520	2.5	312843.150	2.5
1071.1092	10.01	-2.75	303509.520	2.5	312843.080	1.5
1071.1160	29.01	-1.99	139028.200	2.0	148361.700	1.0
1071.1195	21.00	-.03	32751.540	3.5	42085.010	4.5
1071.1218	9.01	-1.27	254541.450	2.0	263874.900	1.0
1071.1321	9.01	-1.57	254541.540	1.0	263874.900	1.0
1071.1321	9.01	-1.57	254541.540	1.0	263874.900	0.0
1071.1436	9.01	-.84	254541.410	4.0	263874.670	3.0
1071.1482	9.01	-1.41	254541.450	2.0	263874.670	2.0
1071.1482	9.01	-2.41	254541.450	2.0	263874.670	3.0
1071.1493	9.01	-1.03	254541.460	3.0	263874.670	2.0
1071.1493	9.01	-1.39	254541.460	3.0	263874.670	3.0
1071.1585	9.01	-2.41	254541.540	1.0	263874.670	2.0
1071.1757	9.01	-.67	254541.350	5.0	263874.330	4.0
1071.1826	9.01	-1.54	254541.410	4.0	263874.330	4.0
1071.1884	9.01	-2.72	254541.460	3.0	263874.330	4.0
1071.2227	15.00	-3.81	66343.330	.5	75675.900	1.5
1071.2319	26.00	-3.60	44415.057	4.0	53747.547	3.0
1071.2364	20.00	-3.81	36554.749	1.0	45887.200	0.0
1071.2491	25.00	-4.80	47753.990	2.5	57086.330	2.5
1071.2572	18.00	-1.44	114805.180	2.0	124137.450	2.0
1071.2755	18.00	-4.04	114805.180	2.0	124137.290	3.0
1071.2985	23.00	-2.95	32738.140	1.5	42070.050	2.5
1071.3277	14.00	-2.63	53387.334	1.0	62718.990	0.0
1071.3284	23.00	-2.70	20789.130	2.5	30120.780	2.5
1071.3375	27.00	-3.39	35450.560	3.5	44782.130	4.5
1071.3433	7.00	-3.99	106980.480	.5	116312.000	.5
1071.3433	7.00	-2.90	106980.480	.5	116312.000	1.5
1071.3548	7.00	-.07	95493.660	1.5	104825.080	2.5
1071.3641	10.00	-4.92	161701.451	3.0	171032.790	3.0
1071.3800	22.00	-4.75	28828.510	2.0	38159.710	3.0
1071.4340	27.00	-4.68	44394.470	3.5	53725.200	4.5
1071.4455	24.00	-3.21	24093.160	2.0	33423.790	1.0
1071.4535	18.00	-.29	114805.180	2.0	124135.740	3.0
1071.5052	17.00	-2.42	92194.190	1.5	101524.300	2.5
1071.5167	6.00	-4.72	78731.270	1.0	88061.280	1.0
1071.5258	7.00	-4.97	107037.069	2.5	116367.000	1.5
1071.5258	7.00	-3.64	107037.069	2.5	116367.000	2.5
1071.5258	7.00	-2.31	107037.069	2.5	116367.000	3.5
1071.5489	18.02	-3.76	242923.960	1.0	252253.690	2.0
1071.6338	18.01	-2.83	190196.160	.5	199525.150	1.5
1071.6361	10.01	-1.53	283322.350	1.5	292651.320	1.5
1071.6580	23.01	-2.56	63816.900	3.0	73145.680	3.0
1071.6671	21.00	-3.40	31275.320	3.5	40604.020	3.5
1071.6714	7.00	-2.94	106778.337	1.5	116107.000	.5
1071.6714	7.00	-3.63	106778.337	1.5	116107.000	1.5
1071.6855	9.01	-3.38	254546.130	4.0	263874.670	3.0
1071.6878	23.01	-1.99	30673.140	2.0	40001.660	2.0
1071.6913	27.00	-1.98	44183.340	4.5	53511.830	5.5
1071.7004	9.01	-4.18	254546.490	2.0	263874.900	1.0
1071.7085	9.01	-3.64	254546.330	3.0	263874.670	2.0
1071.7085	9.01	-3.99	254546.330	3.0	263874.670	3.0
1071.7246	9.01	-4.08	254546.130	4.0	263874.330	4.0
1071.7269	9.01	-4.33	254546.490	2.0	263874.670	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1071.7508	26.00	-4.62	45551.748	1.0	54879.720	2.0
1071.7597	7.00	-2.61	107253.106	2.5	116581.000	2.5
1071.7640	26.00	-2.19	44676.963	4.0	54004.820	3.0
1071.7958	7.00	-.53	95532.120	2.5	104859.700	1.5
1071.8108	6.00	-3.70	79310.850	2.0	88638.300	2.0
1071.8108	6.00	-2.52	79310.850	2.0	88638.300	3.0
1071.8257	17.00	-.51	91538.500	1.5	100865.820	2.5
1071.8786	17.00	-1.20	91538.500	1.5	100865.360	1.5
1071.8820	23.00	-4.95	15571.900	2.5	24898.730	2.5
1071.9142	6.00	-2.98	79318.780	1.0	88645.330	1.0
1071.9142	6.00	-2.66	79318.780	1.0	88645.330	2.0
1071.9556	28.01	-2.48	107142.210	1.5	116468.400	1.5
1071.9786	28.01	-2.24	101247.370	2.5	110573.360	2.5
1072.0029	22.00	-3.66	27025.652	4.0	36351.430	5.0
1072.0533	18.01	-3.44	148842.370	2.5	158167.710	1.5
1072.0579	25.00	-4.67	57305.620	3.5	66630.920	4.5
1072.0648	9.02	-1.94	432060.640	1.5	441385.880	1.5
1072.0671	26.02	-4.53	189011.840	4.0	198337.060	3.0
1072.0866	28.01	-3.95	121385.800	1.5	130710.850	.5
1072.1093	22.00	-4.88	37325.407	2.0	46650.260	3.0
1072.1200	25.02	-3.48	208650.540	3.5	217975.300	2.5
1072.1372	8.01	-3.48	245816.290	1.5	255140.900	1.5
1072.1476	7.00	-3.77	106980.480	.5	116305.000	.5
1072.1476	7.00	-3.86	106980.480	.5	116305.000	1.5
1072.1578	26.00	-2.46	44415.057	4.0	53739.488	5.0
1072.1878	28.01	-1.57	108548.610	1.5	117872.780	2.5
1072.2182	18.00	-3.94	104102.144	1.0	113426.050	2.0
1072.2682	26.00	-4.94	21999.132	4.0	31322.603	3.0
1072.2925	24.00	-2.21	48824.500	4.0	58147.760	3.0
1072.4178	6.00	-2.82	79323.160	0.0	88645.330	1.0
1072.4453	7.00	-3.46	107037.069	2.5	116359.000	2.5
1072.4453	7.00	-2.04	107037.069	2.5	116359.000	3.5
1072.4466	20.00	-3.40	35730.454	2.0	45052.374	3.0
1072.5254	26.00	-3.09	29356.780	2.0	38678.015	2.0
1072.5498	22.00	-3.34	39715.437	3.0	49036.460	4.0
1072.5616	25.00	-4.07	48300.980	1.5	57621.900	1.5
1072.5870	13.01	-1.36	138811.900	2.0	148132.600	3.0
1072.5870	13.01	-2.26	138811.900	3.0	148132.600	3.0
1072.6215	27.00	-.73	47225.110	3.5	56545.510	2.5
1072.6270	22.00	-2.06	6556.828	1.0	15877.180	2.0
1072.6606	21.00	-3.21	31350.810	4.5	40670.870	4.5
1072.6715	20.00	-3.89	35730.454	2.0	45050.419	2.0
1072.7227	6.00	-3.22	79318.780	1.0	88638.300	2.0
1072.7406	14.00	.06	48264.292	3.0	57583.657	4.0
1072.7582	7.00	-3.14	107182.788	1.5	116502.000	.5
1072.7582	7.00	-1.78	107182.788	1.5	116502.000	1.5
1072.7636	26.00	-3.63	44511.795	2.0	53830.960	3.0
1072.7780	25.00	-4.97	51638.170	2.5	60957.210	3.5
1072.7803	8.00	-2.34	99092.980	1.0	108412.000	2.0
1072.7826	15.01	-3.82	131632.000	3.0	140951.000	3.0
1072.7849	26.02	-4.45	213505.730	6.0	222824.710	7.0
1072.8137	21.00	-.20	32696.840	2.5	42015.570	3.5
1072.8265	20.00	-1.14	35730.454	2.0	45049.073	1.0
1072.8578	8.00	-2.12	99093.653	2.0	108412.000	2.0
1072.8978	23.00	-4.57	32846.740	2.5	42164.740	3.5
1072.8978	23.00	-3.81	32846.740	2.5	42164.740	3.5
1072.9323	29.01	-1.25	139241.600	1.0	148559.300	2.0
1072.9531	6.00	-.34	60393.140	2.0	69710.660	2.0
1072.9818	25.00	-3.21	53109.210	2.5	62426.480	3.5
1072.9830	27.00	-4.72	46260.020	1.5	55577.280	1.5
1072.9956	8.00	-1.97	99094.849	3.0	108412.000	2.0
1073.0164	14.00	-3.65	50189.389	2.0	59506.359	2.0
1073.0348	9.00	-.08	137590.090	2.5	146906.900	1.5
1073.0509	7.00	-4.74	95493.660	1.5	104810.330	2.5
1073.0866	10.01	-1.06	303508.480	1.5	312824.840	2.5
1073.1079	22.00	-.18	29986.185	3.0	39302.360	4.0
1073.1288	22.00	-4.38	26892.926	3.0	36208.920	4.0
1073.1318	7.00	-3.29	106996.032	1.5	116312.000	.5
1073.1318	7.00	-3.39	106996.032	1.5	116312.000	1.5
1073.1318	7.00	-3.04	106996.032	1.5	116312.000	2.5
1073.1534	15.00	-2.92	66360.120	1.5	75675.900	1.5
1073.1845	9.00	-1.22	137590.090	2.5	146905.600	2.5
1073.1903	18.00	-2.78	114821.990	3.0	124137.450	2.0
1073.2030	28.01	-3.65	101258.010	1.5	110573.360	2.5
1073.2064	10.01	-2.15	303509.520	2.5	312824.840	2.5
1073.2087	18.00	-1.55	114821.990	3.0	124137.290	3.0
1073.2087	10.01	-.92	303509.520	2.5	312824.820	3.5
1073.2909	22.00	-2.46	6661.003	3.0	15975.590	3.0
1073.3182	25.00	-3.86	47903.800	4.5	57218.150	3.5
1073.3482	26.02	-4.28	189024.530	5.0	198338.620	4.0
1073.3620	7.01	-4.24	211402.030	4.0	220716.000	3.0
1073.3874	18.00	-1.49	114821.990	3.0	124135.740	3.0
1073.3874	18.00	-.14	114821.990	3.0	124135.740	4.0
1073.4084	28.00	-1.43	45418.858	2.0	54732.425	2.0
1073.6087	27.00	-4.93	45971.190	3.5	55283.020	2.5
1073.6110	25.00	-3.98	47774.520	3.5	57086.330	2.5
1073.6306	7.00	-4.44	86220.480	1.5	95532.120	2.5
1073.6502	10.01	-3.32	312763.910	4.5	322075.380	4.5
1073.6698	29.01	-2.24	139331.300	3.0	148642.600	2.0
1073.8136	22.00	-4.40	39152.057	5.0	48462.110	5.0
1073.8323	10.01	-2.60	312765.490	3.5	322075.380	4.5
1073.8370	10.01	-3.70	312765.490	3.5	322075.340	3.5
1073.8405	25.00	-4.70	41031.480	4.5	50341.300	4.5
1073.8462	27.00	-2.25	42811.440	3.5	52121.210	4.5
1073.8578	27.00	-2.11	44394.470	3.5	53704.140	2.5
1073.8726	7.00	-2.35	106814.459	2.5	116124.000	1.5
1073.8726	7.00	-2.92	106814.459	2.5	116124.000	2.5
1073.8762	28.01	-4.26	122441.220	4.5	131750.730	3.5
1073.8831	20.02	-3.45	373880.370	3.0	383189.820	4.0
1073.9085	26.02	-4.96	189024.530	5.0	198333.760	6.0
1073.9131	27.00	-1.91	43555.220	3.5	52864.410	4.5
1073.9359	22.00	-2.17	39715.437	3.0	49024.430	3.0
1073.9387	7.00	-3.07	106996.032	1.5	116305.000	.5
1073.9387	7.00	-4.35	106996.032	1.5	116305.000	1.5
1073.9960	22.00	-4.59	19573.968	4.0	28882.440	3.0
1074.0043	8.01	-3.71	256123.100	3.5	265431.500	2.5
1074.0158	8.01	-2.35	255912.000	.5	265220.300	1.5
1074.0366	6.00	-3.40	78529.620	3.0	87837.740	2.0
1074.0666	11.00	-2.42	30266.990	.5	39574.850	.5
1074.0708	22.00	-3.36	25227.217	3.0	34535.040	2.0
1074.0747	23.00	-3.73	20812.990	1.5	30120.780	2.5
1074.0897	27.00	-2.75	44394.470	3.5	53702.130	3.5
1074.1097	14.00	-3.58	53362.240	3.0	62669.727	2.0
1074.1313	8.01	-1.89	255913.000	1.5	265220.300	1.5
1074.1519	20.02	-1.91	350900.040	2.0	360207.160	2.0
1074.1535	22.00	-.49	29907.273	2.0	39214.380	3.0
1074.1728	14.00	-1.11	53362.240	3.0	62669.179	4.0
1074.1739	25.02	-2.44	209289.760	6.5	218596.690	5.5
1074.1746	14.00	-3.50	53362.240	3.0	62669.164	3.0
1074.2108	9.00	.07	137598.990	3.5	146905.600	2.5
1074.2155	29.01	.19	136725.930	5.0	146032.500	5.0
1074.2634	26.00	-4.03	29371.860	3.0	38678.015	2.0
1074.2718	26.00	-3.30	44760.739	1.0	54066.821	2.0
1074.3159	8.01	-2.11	256125.800	2.5	265431.500	2.5
1074.3294	14.00	-2.02	53362.240	3.0	62667.823	3.0
1074.3321	26.00	-3.34	44826.920	0.0	54132.480	1.0
1074.3355	7.01	-1.78	211410.470	3.0	220716.000	3.0
1074.3448	21.00	-4.28	31215.760	2.5	40521.210	1.5
1074.3517	23.00	-2.20	20789.130	2.5	30094.520	1.5
1074.4219	14.00	-4.59	54313.818	1.0	63618.600	0.0
1074.4348	10.01	-2.14	312763.910	4.5	322068.580	5.5
1074.4487	26.00	-2.60	42532.729	3.0	51837.279	3.0
1074.4544	29.01	-4.14	139217.300	2.0	148521.800	1.0
1074.4649	16.01	-2.33	119294.700	2.5	128599.110	3.5
1074.4902	25.00	-3.78	45156.110	2.5	54460.300	2.5
1074.4919	14.00	-.52	54185.264	1.0	63489.440	2.0
1074.5376	25.00	-4.06	48318.120	.5	57621.900	1.5
1074.5422	28.01	-4.09	118563.390	3.5	127867.130	4.5
1074.5618	29.01	-.90	136725.930	5.0	146029.500	4.0
1074.5849	10.01	-2.99	312772.010	3.5	322075.380	4.5
1074.6207	18.01	-1.85	186815.960	3.5	196119.020	3.5
1074.6346	10.01	-4.87	312763.910	4.5	322066.850	3.5
1074.6404	10.01	-3.00	312772.450	2.5	322075.340	3.5
1074.6440	11.00	-1.29	25739.991	.5	35042.850	1.5
1074.6671	26.00	-2.57	44664.061	2.0	53966.720	2.0
1074.6982	25.00	-2.36	53124.090	3.5	62426.480	3.5
1074.7109	28.00	-3.57	49327.560	3.0	58629.840	2.0
1074.7120	11.00	-2.12	30272.580	1.5	39574.850	.5
1074.7143	24.00	-2.95	35572.940	2.0	44875.190	2.0
1074.7282	10.01	-2.74	303509.520	2.5	312811.650	3.5
1074.7296	22.00	-1.57	29912.262	3.0	39214.380	3.0
1074.7444	28.00	-3.66	49327.560	3.0	58629.550	3.0
1074.7837	21.00	-.39	32659.210	1.5	41960.860	2.5
1074.7860	18.02	-4.42	204649.240	2.0	213950.870	2.0
1074.8056	27.00	-4.01	43555.220	3.5	52856.680	3.5
1074.8172	10.01	-4.02	312765.490	3.5	322066.850	3.5
1074.8519	17.00	-1.15	91564.300	.5	100865.360	1.5
1074.8773	7.01	-3.06	211415.160	2.0	220716.000	3.0
1074.9293	11.00	-1.59	25739.991	.5	35040.380	.5
1074.9378	14.00	-.30	39760.285	1.0	49060.601	1.0
1074.9628	27.00	-2.46	44394.470	3.5	53694.570	3.5
1074.9859	29.01	-1.24	139331.300	3.0	148631.200	3.0
1075.0136	22.00	-3.83	29914.720	3.0	39214.380	3.0
1075.0333	24.00	-4.81	35813.730	3.0	45113.220	3.0
1075.0483	26.01	.04	78237.540	3.5	87536.900	3.5
1075.0541	28.01	-3.31	127219.970	3.5	136519.280	4.5
1075.0599	18.01	-.44	190732.970	.5	200032.230	1.5
1075.1709	23.00	-2.54	17181.980	4.5	26480.280	3.5
1075.1975	29.01	-1.54	136725.930	5.0	146024.000	4.0
1075.2379	23.00	-4.06	17054.870	2.5	26352.590	2.5
1075.2463	22.00	-3.61	29818.310	3.0	39115.958	4.0
1075.2749	6.00	-4.36	78529.620	3.0	87827.020	2.0
1075.2842	6.00	-2.20	78529.620	3.0	87826.940	3.0
1075.3119	10.01	-3.15	303527.740	4.5	312824.820	3.5
1075.3120	25.00	-3.17	57485.970	2.5	66783.050	3.5
1075.3417	8.00	-.78	97488.390	1.0	106785.213	2.0
1075.3464	8.00	-3.01	97488.390	1.0	106785.172	1.0
1075.3464	8.00	-2.71	97488.390	1.0	106785.172	2.0
1075.3498	8.00	-1.53	97488.460	2.0	106785.213	2.0
1075.3498	8.00	-.63	97488.460	2.0	106785.213	3.0
1075.3545	8.00	-2.36	97488.460	2.0	106785.172	2.0
1075.3545	8.00	-3.36	97488.460	2.0	106785.172	1.0
1075.3545	8.00	-1.98	97488.460	2.0	106785.172	3.0
1075.3582	10.01	-1.19	292651.320	1.5	301948.000	1.5
1075.3602	8.00	-3.10	97488.550	3.0	106785.213	2.0
1075.3602	8.00	-1.56	97488.550	3.0	106785.213	3.0
1075.3602	8.00	-.50	97488.550	3.0	106785.213	4.0
1075.3649	8.00	-2.02	97488.550	3.0	106785.172	3.0
1075.3649	8.00	-1.46	97488.550	3.0	106785.172	4.0
1075.3649	8.00	-3.04	97488.550	3.0	106785.172	2.0
1075.3767	26.02	-3.89	190404.310	3.0	199700.830	4.0
1075.3779	10.01	-2.58	312772.010	3.5	322068.520	4.5
1075.3976	6.00	-1.46	60393.140	2.0	69689.480	1.0
1075.4010	10.01	-3.21	303528.530	3.5	312824.840	2.5
1075.4033	10.01	-3.67	303528.530	3.5	312824.820	3.5
1075.4161	28.00	-2.92	48671.900	3.0	57968.080	3.0
1075.4716	23.00	-4.01	32738.140	1.5	42033.840	1.5
1075.4936	25.02	-3.14	208819.640	3.5	218115.150	3.5
1075.5104	7.00	-4.58	106868.635	3.5	116164.000	2.5
1075.5104	7.00	-2.03	106868.635	3.5	116164.000	3.5
1075.5711	10.01	-3.75	312772.010	3.5	322066.850	3.5
1075.6185	10.01	-4.06	312772.450	2.5	322066.880	2.5
1075.6220	10.01	-3.39	312772.450	2.5	322066.850	3.5
1075.6290	23.01	-2.20	30318.630	4.0	39612.970	5.0
1075.6421	22.00	-3.02	37743.933	3.0	47038.160	3.0
1075.6614	28.01	-3.64	108368.050	2.5	117662.110	1.5
1075.6669	22.00	-.73	29855.248	1.0	39149.260	2.0
1075.7260	22.00	-2.58	18061.540	1.0	27355.042	1.0
1075.7451	28.00	-3.98	40484.282	2.0	49777.619	3.0
1075.7837	26.00	-4.50	51461.707	4.0	60754.710	4.0
1075.7887	7.00	-.23	95532.120	2.5	104825.080	2.5
1075.8288	10.00	-2.85	161590.346	4.0	170882.960	3.0
1075.8288	10.00	-1.30	161590.346	4.0	170882.960	4.0
1075.8372	7.00	-3.33	106814.459	2.5	116107.000	1.5
1075.9172	18.00	-.40	113426.050	2.0	122717.900	3.0
1075.9184	18.01	-4.26	199959.620	2.5	209251.460	3.5
1075.9277	6.00	-3.44	68856.330	1.0	78148.090	2.0
1075.9306	26.00	-4.68	45833.240	4.0	55124.974	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1075.9439	18.00	-3.84	115366.900	1.0	124658.520	2.0
1076.0168	27.00	-2.75	43425.710	2.5	52716.700	3.5
1076.0341	10.00	-1.41	161592.120	3.0	170882.960	3.0
1076.0341	10.00	-2.89	161592.120	3.0	170882.960	4.0
1076.0353	9.02	-2.52	455648.670	1.5	464939.500	2.5
1076.0874	6.00	-1.40	78529.620	3.0	87820.000	4.0
1076.0892	7.00	-3.08	106868.635	3.5	116159.000	3.5
1076.0951	10.00	-2.59	161590.346	4.0	170880.660	3.0
1076.0990	6.00	-2.30	78529.620	3.0	87819.900	3.0
1076.1043	22.00	-4.80	26910.705	6.0	36200.940	5.0
1076.2149	15.00	-1.44	66544.120	2.5	75833.400	2.5
1076.2273	28.00	-2.64	33500.854	3.0	42790.027	2.0
1076.2311	22.00	-4.32	37654.770	2.0	46943.910	2.0
1076.2555	18.01	-4.53	199959.620	2.5	209248.550	2.5
1076.3007	10.00	-2.72	161592.120	3.0	170880.660	2.0
1076.3007	10.00	-4.10	161592.120	3.0	170880.660	3.0
1076.3273	8.01	-1.84	245816.290	1.5	255104.600	2.5
1076.3401	8.01	-1.46	256143.300	3.5	265431.500	2.5
1076.3597	18.01	-2.42	195297.610	1.5	204585.640	2.5
1076.3632	15.04	-.36	466893.000	1.5	476181.000	1.5
1076.3632	15.04	.59	466893.000	2.5	476181.000	1.5
1076.3632	15.04	.34	466893.000	1.5	476181.000	.5
1076.4091	10.00	-2.00	161590.346	4.0	170877.950	4.0
1076.4091	10.00	-.36	161590.346	4.0	170877.950	5.0
1076.4223	10.01	-.07	282680.650	.5	291968.140	.5
1076.4297	22.00	-4.98	37852.434	4.0	47139.860	4.0
1076.4351	29.01	-1.38	137649.100	2.0	146936.480	2.0
1076.4385	18.01	.32	186815.960	3.5	196103.310	4.5
1076.4490	26.02	-3.16	190413.570	4.0	199700.830	4.0
1076.5011	26.02	-4.13	192006.940	2.0	201293.750	2.0
1076.5336	23.00	-5.07	13801.530	1.5	23088.060	1.5
1076.5452	29.01	-1.88	138819.170	3.0	148105.600	4.0
1076.5882	28.00	-4.98	47424.830	1.0	56710.889	2.0
1076.6148	10.00	-.46	161592.120	3.0	170877.950	4.0
1076.6194	23.01	-2.95	64130.840	4.0	73416.630	5.0
1076.6380	6.00	-3.87	77679.820	2.0	86965.450	2.0
1076.6449	14.00	-.71	54205.090	2.0	63490.660	3.0
1076.7341	8.02	-2.06	358667.400	1.0	367952.200	1.0
1076.7643	21.00	-.58	32637.400	.5	41921.940	1.5
1076.7806	56.01	-.43	61336.000	0.0	70622.943	0.0
1076.7863	14.00	-.90	54205.090	2.0	63489.440	2.0
1076.8023	7.00	-1.55	107182.788	1.5	116467.000	.5
1076.8023	7.00	-2.25	107182.788	1.5	116467.000	1.5
1076.8038	25.02	-2.36	209091.410	5.5	218375.610	4.5
1076.8095	18.00	-3.13	115366.900	1.0	124651.050	1.0
1076.8235	29.01	-.12	138819.170	3.0	148103.200	3.0
1076.8364	13.00	-1.50	32949.804	.5	42233.722	1.5
1076.8374	10.01	-3.31	303527.740	4.5	312811.650	3.5
1076.8374	10.01	-2.35	303527.740	4.5	312811.650	4.5
1076.8652	8.01	-2.68	248514.230	1.5	257797.900	1.5
1076.8780	27.00	-2.90	42811.440	3.5	52095.000	3.5
1076.9290	10.01	-1.93	303528.530	3.5	312811.650	3.5
1076.9290	10.01	-1.44	303528.530	3.5	312811.650	4.5
1076.9391	9.00	-.52	118936.797	1.5	128219.830	1.5
1076.9406	15.00	-.91	56090.450	1.5	65373.470	.5
1076.9464	10.01	-1.02	303527.740	4.5	312810.710	5.5
1076.9511	10.01	-1.87	303527.740	4.5	312810.670	4.5
1076.9522	14.00	-1.41	54205.090	2.0	63488.010	3.0
1076.9580	56.01	-1.77	57390.930	0.0	66676.343	0.0
1077.0010	28.01	-4.40	128732.030	1.5	138014.530	2.5
1077.0134	14.00	-3.29	53387.334	1.0	62669.727	2.0
1077.0428	10.01	-1.42	303528.530	3.5	312810.670	4.5
1077.0439	18.00	-1.11	113426.050	2.0	122708.180	2.0
1077.0718	18.00	-2.32	113426.050	2.0	122707.940	3.0
1077.1135	23.00	-2.56	20812.990	1.5	30094.520	1.5
1077.1219	10.00	-3.90	162408.653	2.0	171690.110	2.0
1077.1219	10.00	-2.76	162408.653	2.0	171690.110	3.0
1077.1321	22.00	-4.44	31805.940	2.0	41087.310	3.0
1077.1534	10.00	-4.45	162410.174	3.0	171691.360	3.0
1077.1534	10.00	-3.03	162410.174	3.0	171691.360	4.0
1077.1553	27.00	-1.90	41918.410	3.5	51199.580	3.5
1077.1750	8.01	-.82	265639.000	3.5	274920.000	2.5
1077.1757	28.00	-2.90	45418.858	2.0	54699.852	3.0
1077.2261	28.01	-3.92	121190.340	4.5	130470.900	4.5
1077.2273	28.01	-4.61	120199.180	1.5	129479.730	1.5
1077.2679	29.01	-1.64	139241.600	1.0	148521.800	1.0
1077.2690	27.00	-4.51	46002.830	2.5	55283.020	2.5
1077.2985	10.00	-4.95	162410.174	3.0	171690.110	2.0
1077.2985	10.00	-3.66	162410.174	3.0	171690.110	3.0
1077.3306	21.00	-4.16	31275.320	3.5	40554.980	2.5
1077.3335	26.00	-3.66	44551.325	3.0	53830.960	3.0
1077.3381	18.00	-1.17	106087.305	1.0	115366.900	1.0
1077.4072	17.01	-.88	140740.000	1.0	150019.000	0.0
1077.4214	28.00	-1.24	44475.158	2.0	53754.036	2.0
1077.4478	27.00	-4.43	44658.030	1.5	53936.680	2.5
1077.4629	7.00	-3.12	106980.480	.5	116259.000	.5
1077.4629	7.00	-4.09	106980.480	.5	116259.000	1.5
1077.4733	22.00	-2.63	6598.749	2.0	15877.180	2.0
1077.4989	7.00	-2.01	95532.120	2.5	104810.330	2.5
1077.5056	22.00	-.84	29829.097	0.0	39107.250	1.0
1077.5187	23.00	-4.71	30120.780	2.5	39398.820	3.5
1077.5233	15.00	-1.98	68377.200	3.5	77655.200	3.5
1077.5271	10.00	-4.31	162408.653	2.0	171686.620	1.0
1077.5271	10.00	-3.35	162408.653	2.0	171686.620	2.0
1077.5744	8.01	-3.75	238731.540	1.5	248009.100	1.5
1077.6037	26.00	-4.07	49242.872	3.0	58520.180	4.0
1077.6081	22.00	-4.09	28882.440	3.0	38159.710	3.0
1077.6209	23.00	-4.42	13810.900	.5	23088.060	1.5
1077.6337	27.00	-4.13	43425.710	2.5	52702.760	1.5
1077.6416	26.00	-4.69	49433.108	2.0	58710.090	3.0
1077.6697	20.02	-4.28	373880.370	3.0	383157.110	3.0
1077.6813	18.00	-2.81	115366.900	1.0	124643.540	1.0
1077.7011	9.02	-3.09	406908.950	1.5	416185.420	2.5
1077.7039	10.00	-4.91	162410.174	3.0	171686.620	2.0
1077.7162	6.00	-2.01	77679.820	2.0	86956.160	1.0
1077.7278	28.01	-4.72	120203.490	2.5	129479.730	1.5
1077.7394	20.02	-4.01	373880.370	3.0	383156.510	4.0
1077.8373	17.00	-3.56	82918.893	2.5	92194.190	1.5
1077.8591	26.02	-2.65	190425.720	5.0	199700.830	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1077.8683	9.02	-2.67	380250.520	2.5	389525.550	1.5
1077.8798	7.00	-2.86	107037.069	2.5	116312.000	1.5
1077.8798	7.00	-2.68	107037.069	2.5	116312.000	2.5
1077.9985	18.01	-2.87	186815.960	3.5	196089.870	2.5
1078.0253	23.00	-4.17	32891.060	3.5	42164.740	3.5
1078.0276	25.02	-1.51	209323.030	6.5	218596.690	5.5
1078.0299	28.01	-4.11	105668.780	2.5	114942.420	1.5
1078.0320	20.00	-.87	38192.392	1.0	47466.014	2.0
1078.0580	10.00	-1.84	161607.261	2.0	170880.660	2.0
1078.0580	10.00	-.69	161607.261	2.0	170880.660	3.0
1078.0660	27.00	-2.64	42796.670	1.5	52070.000	2.5
1078.0717	26.00	-3.47	26105.908	6.0	35379.189	5.0
1078.0834	7.00	-4.97	86220.480	1.5	95493.660	1.5
1078.1429	28.00	-3.64	42767.900	3.0	52040.568	2.0
1078.1483	9.00	-2.70	117308.558	1.5	126581.180	.5
1078.1491	22.00	-2.23	18145.400	2.0	27418.015	2.0
1078.1613	23.02	-4.10	153112.600	3.5	162385.110	3.5
1078.1800	8.01	-3.17	246028.950	3.5	255301.300	2.5
1078.2045	13.00	-1.26	32965.643	1.5	42237.781	2.5
1078.2125	25.00	-.86	52758.110	4.5	62030.180	4.5
1078.2567	26.02	-4.85	213563.080	5.0	222834.770	6.0
1078.2729	28.01	-2.92	121042.520	1.5	130314.070	2.5
1078.2929	10.00	-3.15	162419.982	2.0	171691.360	3.0
1078.3090	26.00	-2.98	25091.620	0.0	34362.860	1.0
1078.3823	10.01	-2.51	312804.730	2.5	322075.340	3.5
1078.4384	10.00	-3.81	162419.982	2.0	171690.110	2.0
1078.4384	10.00	-4.97	162419.982	2.0	171690.110	3.0
1078.4563	14.00	-.91	48102.323	2.0	57372.297	2.0
1078.4730	23.01	-1.75	64229.100	5.0	73498.930	6.0
1078.4940	8.01	-2.83	245902.850	2.5	255172.500	1.5
1078.5056	17.00	-1.85	91906.790	2.5	101176.340	2.5
1078.5253	17.00	-.55	91906.790	2.5	101176.171	3.5
1078.5463	23.01	-3.41	44657.990	2.0	53927.190	3.0
1078.6115	25.00	-2.45	47299.290	.5	56567.930	1.5
1078.6279	10.00	-2.26	161607.261	2.0	170875.760	1.0
1078.6279	10.00	-1.31	161607.261	2.0	170875.760	2.0
1078.6452	8.01	-3.39	248425.350	.5	257693.700	.5
1078.6767	13.00	-2.21	32965.643	1.5	42233.722	1.5
1078.6849	14.00	-.39	39760.285	1.0	49028.294	0.0
1078.6940	7.00	-3.82	107037.069	2.5	116305.000	1.5
1078.7139	9.02	-4.81	457715.100	2.5	466982.860	2.5
1078.7220	15.01	-4.17	103340.010	2.0	112607.700	2.0
1078.7523	23.00	-2.52	32846.740	2.5	42114.170	3.5
1078.7570	29.01	-.53	136754.110	2.0	146021.500	3.0
1078.7767	23.01	-2.06	64026.600	4.0	73293.820	5.0
1078.7814	27.00	-2.75	43435.580	.5	52702.760	1.5
1078.7884	29.01	-1.65	136765.380	4.0	146032.500	5.0
1078.8478	18.01	.37	199981.940	1.5	209248.550	2.5
1079.0702	29.01	-.92	139217.300	2.0	148482.000	3.0
1079.0783	25.00	-3.78	51638.170	2.5	60902.800	3.5
1079.0981	6.00	-2.86	79310.850	2.0	88575.310	3.0
1079.1144	23.00	-3.42	20830.200	.5	30094.520	1.5
1079.1377	29.01	-1.79	136765.380	4.0	146029.500	4.0
1079.1447	20.00	-.45	38192.392	1.0	47456.452	1.0
1079.1482	21.00	-.93	32751.540	3.5	42015.570	3.5
1079.1494	21.00	-.84	32696.840	2.5	41960.860	2.5
1079.1494	6.00	-2.58	79310.850	2.0	88574.870	3.0
1079.1517	6.00	-3.55	79310.850	2.0	88574.850	2.0
1079.1610	9.02	-3.32	406904.380	.5	416168.300	1.5
1079.1762	22.00	-3.13	39198.320	6.0	48462.110	5.0
1079.2100	3.00	-3.41	27206.000	0.0	36472.037	0.0
1079.2363	20.00	-1.41	37751.867	2.0	47015.141	3.0
1079.2435	22.00	-3.93	17540.205	3.0	26803.417	2.0
1079.2509	22.00	-3.28	30039.211	5.0	39302.360	4.0
1079.2547	22.00	-4.04	6842.964	5.0	16106.080	4.0
1079.2720	7.00	-2.99	106996.032	1.5	116259.000	.5
1079.2720	7.00	-2.50	106996.032	1.5	116259.000	1.5
1079.2720	7.00	-2.59	106996.032	1.5	116259.000	2.5
1079.2869	10.01	-2.21	312804.040	1.5	322066.880	2.5
1079.2997	21.00	-.96	32659.210	1.5	41921.940	1.5
1079.3346	24.01	-4.98	54444.190	3.5	63706.620	4.5
1079.3459	22.00	-1.72	26803.417	2.0	36065.750	3.0
1079.3672	10.01	-3.36	312804.730	2.5	322066.880	2.5
1079.3707	10.01	-2.23	312804.730	2.5	322066.850	3.5
1079.4430	15.01	-1.26	131689.500	4.0	140951.000	3.0
1079.4781	26.00	-2.55	44664.061	2.0	53925.260	1.0
1079.5071	27.00	-4.54	45904.680	1.5	55165.630	2.5
1079.5456	26.00	-4.85	45294.830	5.0	54555.450	4.0
1079.5470	28.00	-2.55	49327.560	3.0	58588.168	3.0
1079.5654	27.00	-4.30	43199.650	2.5	52460.100	2.5
1079.5701	6.00	-2.00	68856.330	1.0	78116.740	1.0
1079.5771	18.00	-3.84	113426.050	2.0	122686.400	2.0
1079.6004	18.00	-2.37	113426.050	2.0	122686.200	1.0
1079.6107	14.00	-1.34	49850.830	2.0	59110.892	2.0
1079.6202	25.00	-1.93	48225.990	3.5	57485.970	2.5
1079.6738	7.00	-3.10	106980.480	.5	116240.000	1.5
1079.6906	20.00	-1.57	35730.454	2.0	44989.830	2.0
1079.6936	9.02	-4.23	406908.950	1.5	416168.300	1.5
1079.7092	26.00	-2.82	44022.518	4.0	53281.735	5.0
1079.7194	14.00	-2.46	49850.830	2.0	59109.959	3.0
1079.7344	10.03	-.47	634413.000	2.5	643672.000	1.5
1079.7788	29.01	.13	136765.380	4.0	146024.000	4.0
1079.7858	27.00	-3.76	42811.440	3.5	52070.000	2.5
1079.8043	10.00	-.65	150121.592	1.0	159379.993	0.0
1079.8196	18.01	-.83	185624.730	3.5	194883.000	3.5
1079.8264	7.00	-4.10	107182.788	1.5	116441.000	.5
1079.8264	7.00	-3.34	107182.788	1.5	116441.000	1.5
1079.8264	7.00	-3.83	107182.788	1.5	116441.000	2.5
1079.8514	20.00	-1.71	37748.197	1.0	47006.194	2.0
1079.8553	12.00	-3.34	47957.028	2.0	57214.992	1.0
1079.8803	28.01	-3.52	127331.600	2.5	136589.350	3.5
1079.9331	14.00	-2.40	49933.775	3.0	59191.072	2.0
1079.9795	9.00	-1.59	119081.820	.5	128338.720	.5
1079.9915	20.00	-.83	38219.118	2.0	47475.915	3.0
1080.0038	20.00	-4.08	38192.392	1.0	47449.083	2.0
1080.0051	24.00	-3.50	35618.510	1.0	44875.190	2.0
1080.0704	29.01	-.93	136765.380	4.0	146021.500	3.0
1080.0762	6.00	-3.08	79318.780	1.0	88574.850	2.0
1080.0937	20.01	-1.12	81498.000	.5	90753.920	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1080.0961	13.01	-2.44	133914.100	2.0	143170.000	1.0
1080.1346	24.00	-1.87	24286.540	1.0	33542.110	2.0
1080.1498	24.00	-3.11	45719.200	1.0	54974.640	2.0
1080.1585	7.00	-2.27	106868.635	3.5	116124.000	2.5
1080.1778	17.01	-2.46	131754.800	1.0	141010.000	2.0
1080.1824	9.02	-2.26	432060.640	1.5	441315.800	.5
1080.2006	26.00	-4.80	45428.385	4.0	54683.390	4.0
1080.2011	8.01	-.48	265665.000	2.5	274920.000	1.5
1080.2011	8.01	-1.40	265665.000	2.5	274920.000	2.5
1080.2245	7.00	-4.48	86220.480	1.5	95475.280	.5
1080.2502	14.03	-.82	327361.970	2.5	336616.550	2.5
1080.2502	14.03	.49	327361.970	2.5	336616.550	3.5
1080.2502	14.03	.33	327361.970	1.5	336616.550	2.5
1080.2674	10.00	-3.10	162435.678	1.0	171690.110	2.0
1080.2697	20.00	-1.95	37751.867	2.0	47006.280	3.0
1080.2797	20.00	-2.84	37751.867	2.0	47006.194	2.0
1080.3085	17.00	-2.12	90948.530	1.5	100202.610	1.5
1080.3716	7.01	-.55	220495.360	2.0	229748.900	3.0
1080.4099	7.00	-2.97	107182.788	1.5	116436.000	1.5
1080.4099	7.00	-2.83	107182.788	1.5	116436.000	2.5
1080.4101	21.00	-4.26	31350.810	4.5	40604.020	3.5
1080.4136	18.00	-4.43	114805.180	2.0	124058.360	3.0
1080.4323	28.01	-2.11	100592.980	3.5	109846.000	3.5
1080.4440	22.00	-3.37	39662.150	1.0	48915.070	2.0
1080.4486	28.00	-3.05	48715.200	4.0	57968.080	3.0
1080.4510	24.00	-4.89	33040.100	2.0	42292.960	1.0
1080.4638	28.01	-3.49	121227.800	2.5	130480.550	3.5
1080.4930	24.00	-3.94	45734.320	2.0	54986.820	3.0
1080.5140	23.01	-3.16	64026.600	4.0	73278.920	4.0
1080.5512	22.00	-1.02	29855.248	1.0	39107.250	1.0
1080.5689	25.00	-4.92	57485.970	2.5	66737.820	3.5
1080.5829	27.00	-2.20	41918.410	3.5	51170.140	4.5
1080.6028	18.01	-2.99	204937.800	4.5	214189.360	4.5
1080.6370	10.00	-.59	162408.653	2.0	171659.920	3.0
1080.6639	10.00	-1.74	162408.653	2.0	171659.690	2.0
1080.6717	23.01	-2.36	63657.200	2.0	72908.170	3.0
1080.6750	10.00	-3.64	162435.678	1.0	171686.620	1.0
1080.7016	18.00	-1.85	111818.090	1.0	121068.804	1.0
1080.7126	10.01	-3.31	281332.550	.5	290583.170	1.5
1080.7383	24.00	-4.14	35862.820	4.0	45113.220	3.0
1080.7407	18.01	-1.63	190196.160	.5	199446.540	.5
1080.8037	22.00	-2.98	24921.110	1.0	34170.950	0.0
1080.8142	28.01	-4.50	106620.530	3.5	115870.280	2.5
1080.8147	10.00	-1.76	162410.174	3.0	171659.920	3.0
1080.8147	10.00	-.45	162410.174	3.0	171659.920	4.0
1080.8329	23.00	-3.94	33155.300	4.5	42404.890	3.5
1080.8416	10.00	-3.06	162410.174	3.0	171659.690	2.0
1080.8416	10.00	-1.88	162410.174	3.0	171659.690	3.0
1080.8668	17.01	-3.14	137804.400	1.0	147053.700	2.0
1080.8855	24.00	-1.83	48140.180	7.0	57389.320	6.0
1080.8880	10.00	-4.23	163012.621	1.0	172261.740	1.0
1080.9054	18.01	-1.34	190732.970	.5	199981.940	1.5
1080.9076	20.00	-1.38	37757.449	3.0	47006.400	4.0
1080.9112	18.00	-4.70	114805.180	2.0	124054.100	3.0
1080.9143	7.00	-2.21	107253.106	2.5	116502.000	1.5
1080.9216	20.00	-2.44	37757.449	3.0	47006.280	3.0
1080.9317	20.00	-3.98	37757.449	3.0	47006.194	2.0
1080.9428	6.00	-2.58	68856.330	1.0	78104.980	0.0
1080.9962	9.00	-1.63	118936.797	1.5	128184.990	.5
1081.0071	17.01	-2.57	137877.600	2.0	147125.700	3.0
1081.0492	28.01	-4.38	105588.890	4.5	114836.630	3.5
1081.0597	27.00	-4.77	46329.630	2.5	55577.280	1.5
1081.0901	25.00	-4.91	35041.370	3.5	44288.760	4.5
1081.1006	28.01	-4.48	105838.060	3.5	115085.360	3.5
1081.1068	12.00	-1.23	47957.028	2.0	57204.275	2.0
1081.1068	12.00	-1.93	47957.028	2.0	57204.275	3.0
1081.1088	12.00	-2.60	47957.045	3.0	57204.275	2.0
1081.1088	12.00	-1.45	47957.045	3.0	57204.275	3.0
1081.1088	12.00	.01	47957.045	3.0	57204.275	4.0
1081.1101	12.00	-.32	47957.056	1.0	57204.275	2.0
1081.1199	12.00	-.19	47957.028	2.0	57204.163	3.0
1081.1205	29.01	-1.41	138819.170	3.0	148066.300	2.0
1081.1219	12.00	-1.28	47957.045	3.0	57204.163	3.0
1081.1478	20.00	-.27	38219.118	2.0	47466.014	2.0
1081.1976	18.00	-2.36	114805.180	2.0	124051.650	2.0
1081.2222	18.00	-1.25	114805.180	2.0	124051.440	3.0
1081.2432	25.00	-2.96	59470.140	3.5	68716.220	4.5
1081.2503	24.00	-.41	27649.710	4.0	36895.730	3.0
1081.2888	18.01	-.58	150147.620	2.5	159393.310	1.5
1081.3157	15.00	-.17	56339.540	2.5	65585.000	2.5
1081.4316	27.00	-2.38	42796.670	1.5	52041.140	.5
1081.4435	28.00	-3.76	47030.148	3.0	56274.516	2.0
1081.4815	10.00	-.90	161636.617	1.0	170880.660	2.0
1081.4903	7.00	-3.06	106996.032	1.5	116240.000	1.5
1081.4903	7.00	-2.67	106996.032	1.5	116240.000	2.5
1081.5274	18.01	.13	199679.760	2.5	208923.410	2.5
1081.5319	22.00	-4.45	20795.599	5.0	30039.211	5.0
1081.5682	22.00	-3.39	29971.078	4.0	39214.380	3.0
1081.5684	28.01	-3.05	105838.060	3.5	115081.360	4.5
1081.5745	28.00	-3.12	42954.234	2.0	52197.482	3.0
1081.5778	10.01	-3.69	303599.930	3.5	312843.150	2.5
1081.6445	10.01	-4.39	303600.500	2.5	312843.150	2.5
1081.6480	18.01	-4.38	183090.810	1.5	192333.430	.5
1081.6527	10.01	-3.87	303600.500	2.5	312843.080	1.5
1081.6585	29.01	-3.44	138819.170	3.0	148061.700	3.0
1081.6948	24.00	-2.17	24299.890	2.0	33542.110	2.0
1081.7168	22.00	-.82	30060.328	4.0	39302.360	4.0
1081.7206	17.01	-4.77	131768.000	2.0	141010.000	2.0
1081.7221	22.00	-.87	29907.273	2.0	39149.260	2.0
1081.7546	10.00	-3.70	163012.621	1.0	172254.330	0.0
1081.7861	18.01	-.93	199679.760	2.5	208921.200	1.5
1081.8736	10.00	-1.84	162830.703	3.0	172071.396	2.0
1081.8962	29.01	-2.58	141542.100	2.0	150782.600	2.0
1081.9619	10.00	-3.06	162419.982	2.0	171659.920	3.0
1081.9889	10.00	-1.91	162419.982	2.0	171659.690	2.0
1081.9889	10.00	-.58	162419.982	2.0	171659.690	3.0
1081.9945	18.01	-2.41	201345.220	1.5	210584.880	1.5
1081.9957	28.01	-3.84	121240.900	3.5	130480.550	3.5
1082.0386	22.00	-1.57	26892.926	3.0	36132.210	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1082.0551	10.00	-1.77	161636.617	1.0	170875.760	1.0
1082.0551	10.00	-1.68	161636.617	1.0	170875.760	2.0
1082.1491	24.00	-3.93	45966.450	2.0	55204.790	3.0
1082.1573	18.01	-4.49	204951.090	3.5	214189.360	4.5
1082.1585	26.02	-4.54	201166.350	3.0	210404.610	4.0
1082.1690	24.00	-1.82	24303.940	3.0	33542.110	2.0
1082.1831	8.01	-.85	245902.850	2.5	255140.900	1.5
1082.2032	26.00	-3.28	43922.652	3.0	53160.530	3.0
1082.2068	26.00	-3.39	42532.729	3.0	51770.577	3.0
1082.2124	20.01	-.87	81517.000	1.5	90754.800	2.5
1082.2156	17.00	-1.34	83364.927	.5	92602.700	.5
1082.2478	20.00	-2.08	39333.382	0.0	48570.880	1.0
1082.2615	18.00	-2.56	114147.750	1.0	123385.130	0.0
1082.2669	20.00	-.91	38219.118	2.0	47456.452	1.0
1082.2815	29.01	-2.16	137649.100	2.0	146886.310	1.0
1082.3063	22.00	-2.58	29912.262	3.0	39149.260	2.0
1082.3155	20.01	-1.82	81517.000	1.5	90753.920	1.5
1082.3183	17.00	-1.34	90948.530	1.5	100185.426	2.5
1082.3248	18.01	-3.30	191169.520	1.5	200406.360	.5
1082.3424	17.00	-1.92	90948.530	1.5	100185.220	1.5
1082.3542	27.00	-3.94	42796.670	1.5	52033.260	1.5
1082.3600	18.01	-1.33	185624.730	3.5	194861.270	2.5
1082.3799	18.00	-2.29	114821.990	3.0	124058.360	3.0
1082.3799	18.00	-1.20	114821.990	3.0	124058.360	4.0
1082.3998	18.00	-1.86	114805.180	2.0	124041.380	2.0
1082.4209	18.00	-2.80	114805.180	2.0	124041.200	1.0
1082.4350	15.01	-1.17	130174.300	2.0	139410.200	2.0
1082.4524	26.00	-4.26	44511.795	2.0	53747.547	3.0
1082.4620	23.00	-3.04	17116.920	3.5	26352.590	2.5
1082.4751	20.00	-2.16	39335.322	1.0	48570.880	1.0
1082.4751	20.00	-1.91	39335.322	1.0	48570.880	2.0
1082.4936	29.01	-3.87	139395.800	4.0	148631.200	3.0
1082.4972	10.02	-3.93	379834.000	1.0	389069.370	2.0
1082.5886	27.00	-3.20	43537.710	1.5	52772.300	2.5
1082.5944	22.00	-4.15	29914.720	3.0	39149.260	2.0
1082.6483	14.00	-3.28	53362.240	3.0	62596.320	2.0
1082.6812	13.01	-2.18	139588.700	3.0	148822.500	2.0
1082.6812	13.01	-3.61	139588.700	3.0	148822.500	3.0
1082.6812	13.01	-3.94	139588.700	4.0	148822.500	3.0
1082.6812	13.01	-2.18	139588.700	4.0	148822.500	3.0
1082.6812	13.01	-3.47	139588.700	4.0	148822.500	4.0
1082.6812	13.01	-3.61	139588.700	4.0	148822.500	4.0
1082.6812	13.01	-1.95	139588.700	5.0	148822.500	4.0
1082.6929	18.01	-3.16	204951.090	3.5	214184.790	3.5
1082.6975	20.00	-1.78	35818.713	3.0	45052.374	3.0
1082.7023	6.00	-3.74	78529.620	3.0	87763.240	3.0
1082.7088	14.00	.22	39955.053	2.0	49188.617	2.0
1082.7187	6.00	-1.84	78529.620	3.0	87763.100	4.0
1082.7363	18.01	-3.25	201351.550	2.5	210584.880	1.5
1082.7445	26.01	.52	78237.540	3.5	87470.800	4.5
1082.7492	26.02	-4.65	201166.350	3.0	210399.570	3.0
1082.7658	14.00	-.76	54257.582	3.0	63490.660	3.0
1082.7703	6.00	-1.72	77679.820	2.0	86912.860	1.0
1082.7914	15.00	-.17	66813.040	1.5	76045.900	2.5
1082.7946	22.00	-3.77	6742.757	4.0	15975.590	3.0
1082.7985	28.01	-4.45	120270.440	5.5	129503.240	4.5
1082.8017	28.00	-2.55	47030.148	3.0	56262.920	3.0
1082.8017	28.00	-3.47	48735.308	2.0	57968.080	3.0
1082.8219	6.00	-4.39	78529.620	3.0	87762.220	2.0
1082.8336	6.00	-2.45	78529.620	3.0	87762.120	3.0
1082.8362	26.00	-3.95	43922.652	3.0	53155.130	4.0
1082.8571	9.02	-4.71	458594.860	2.5	467827.160	1.5
1082.8688	25.02	-3.49	208743.100	2.5	217975.300	2.5
1082.8794	18.00	-3.97	114821.990	3.0	124054.100	3.0
1082.9090	14.00	-2.02	54257.582	3.0	63489.440	2.0
1082.9100	2.00	-.75	159856.000	0.0	169090.378	0.0
1082.9263	27.00	-2.54	41968.890	2.5	51200.600	1.5
1082.9268	20.00	-1.30	35818.713	3.0	45050.419	2.0
1082.9439	18.01	-1.02	150474.900	1.5	159706.460	.5
1082.9712	14.00	-.86	54257.582	3.0	63488.910	4.0
1082.9756	29.01	-.20	136754.110	2.0	145985.400	2.0
1082.9781	7.00	-3.98	106758.731	.5	115990.000	.5
1082.9781	7.00	-4.28	106758.731	.5	115990.000	1.5
1083.0200	2.00	-.27	159856.000	0.0	169089.440	0.0
1083.0300	2.00	-.05	159856.000	0.0	169089.355	0.0
1083.0330	20.00	-3.25	39340.080	2.0	48570.880	1.0
1083.0330	20.00	-2.32	39340.080	2.0	48570.880	2.0
1083.0330	20.00	-1.47	39340.080	2.0	48570.880	3.0
1083.0460	27.00	-2.82	41968.890	2.5	51199.580	3.5
1083.0767	14.00	-3.48	54257.582	3.0	63488.010	3.0
1083.1117	28.01	-4.38	107082.210	2.5	116312.340	1.5
1083.1269	28.01	-3.57	121240.900	3.5	130470.900	4.5
1083.1668	18.00	-3.00	114821.990	3.0	124051.650	2.0
1083.1915	18.00	-1.85	114821.990	3.0	124051.440	3.0
1083.2120	17.00	-.51	91660.580	2.5	100889.855	3.5
1083.2443	8.01	-.40	265691.000	3.5	274920.000	2.5
1083.2478	22.00	-2.53	39686.100	2.0	48915.070	2.0
1083.2747	28.00	-1.38	44475.158	2.0	53703.899	1.0
1083.3382	20.00	-.07	39335.322	1.0	48563.522	2.0
1083.3388	22.00	-.74	29986.185	3.0	39214.380	3.0
1083.3535	18.01	-1.19	186890.950	2.5	196119.020	3.5
1083.3617	29.01	-2.42	139331.300	3.0	148559.300	2.0
1083.4233	26.00	-3.68	44166.240	3.0	53393.715	4.0
1083.4474	21.01	-2.06	55715.520	1.0	64942.790	0.0
1083.4848	11.00	-1.80	29172.839	2.5	38399.790	2.5
1083.4848	11.00	-.50	29172.839	2.5	38399.790	3.5
1083.4907	11.00	-.65	29172.889	1.5	38399.790	2.5
1083.5096	28.01	-1.95	100619.260	4.5	109846.000	3.5
1083.5472	28.00	-3.79	49403.420	1.0	58629.840	2.0
1083.5542	23.00	-4.89	15688.800	2.5	24915.160	1.5
1083.6235	29.01	1.00	136725.930	5.0	145951.700	6.0
1083.6318	7.01	-3.02	211490.300	2.0	220716.000	3.0
1083.6428	26.00	-4.98	38995.717	1.0	48221.323	1.0
1083.7022	21.00	-2.08	32696.840	2.5	41921.940	1.5
1083.7046	22.00	-4.57	25102.880	2.0	34327.960	1.0
1083.7223	14.02	-2.11	240549.770	2.0	249774.700	3.0
1083.7246	10.01	-3.78	303599.930	3.5	312824.840	2.5
1083.7270	10.01	-2.40	303599.930	3.5	312824.820	3.5
1083.7480	14.02	-3.01	240549.770	2.0	249774.480	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1083.7551	18.00	-2.33	114821.990	3.0	124046.640	4.0
1083.7598	18.01	-.63	196076.390	1.5	205301.000	2.5
1083.7762	18.01	-1.37	196076.390	1.5	205300.860	1.5
1083.7903	10.01	-.12	283322.350	1.5	292546.700	.5
1083.7915	10.01	-2.52	303600.500	2.5	312824.840	2.5
1083.7927	27.00	-4.27	22475.360	4.5	31699.690	4.5
1083.7939	10.01	-3.03	303600.500	2.5	312824.820	3.5
1083.7962	6.00	-4.71	78116.740	1.0	87341.040	0.0
1083.7974	29.01	.31	136754.110	2.0	145978.400	3.0
1083.8033	10.02	-2.42	379834.000	1.0	389058.240	1.0
1083.8115	28.01	-3.92	105861.190	2.5	115085.360	3.5
1083.8174	28.01	-4.06	129271.720	3.5	138495.840	4.5
1083.8301	10.00	-.78	162435.678	1.0	171659.690	2.0
1083.8315	27.00	-3.94	44480.140	2.5	53704.140	2.5
1083.8970	20.00	.41	39340.080	2.0	48563.522	2.0
1083.9033	10.00	-3.88	163038.351	2.0	172261.740	1.0
1083.9126	23.00	-3.35	32846.740	2.5	42070.050	2.5
1083.9161	23.02	-4.36	153112.600	3.5	162335.880	3.5
1083.9184	18.01	-3.89	186074.350	2.5	195297.610	1.5
1083.9960	29.01	-.02	138883.000	4.0	148105.600	4.0
1084.0066	18.01	-2.08	191012.350	1.5	200234.860	2.5
1084.0677	27.00	-3.57	44480.140	2.5	53702.130	3.5
1084.0747	7.00	-2.76	107037.069	2.5	116259.000	1.5
1084.0747	7.00	-2.79	107037.069	2.5	116259.000	2.5
1084.0795	25.00	-3.51	57621.900	1.5	66843.790	1.5
1084.1018	29.01	-3.54	129759.600	1.0	138981.300	2.0
1084.1218	23.01	-4.15	64057.390	3.0	73278.920	4.0
1084.1276	17.00	-1.50	90948.530	1.5	100170.010	2.5
1084.1566	17.00	-.60	82918.893	2.5	92140.127	1.5
1084.1970	25.00	-3.61	48168.010	4.5	57388.900	4.5
1084.2378	22.00	-3.42	25107.417	2.0	34327.960	1.0
1084.2723	27.00	-3.19	43555.220	3.5	52775.470	4.5
1084.2782	29.01	-1.56	138883.000	4.0	148103.200	3.0
1084.3158	28.01	-3.19	121111.900	.5	130331.780	1.5
1084.3170	29.01	-.81	136725.930	5.0	145945.800	5.0
1084.3735	18.00	-3.09	114821.990	3.0	124041.380	2.0
1084.3858	14.00	-.31	47284.061	1.0	56503.346	2.0
1084.4477	10.00	-.38	150315.861	2.0	159534.620	1.0
1084.4875	9.02	-3.30	380307.130	1.5	389525.550	1.5
1084.5440	27.00	-4.32	41982.660	1.5	51200.600	1.5
1084.6087	18.01	-.70	195297.610	1.5	204515.000	.5
1084.6279	22.00	-3.19	25317.813	1.0	34535.040	2.0
1084.6370	27.00	-2.70	43242.950	2.5	52460.100	2.5
1084.6452	27.00	-4.83	43555.220	3.5	52772.300	2.5
1084.6546	25.00	-3.10	57305.620	3.5	66522.620	4.5
1084.6592	20.00	-3.92	35835.413	2.0	45052.374	3.0
1084.6687	26.01	-2.86	54870.620	2.5	64087.500	2.5
1084.6792	20.00	0.00	38259.124	3.0	47475.915	3.0
1084.7499	28.01	-3.97	121115.590	1.5	130331.780	1.5
1084.7515	22.00	-3.83	6661.003	3.0	15877.180	2.0
1084.7629	9.02	-4.84	432060.640	1.5	441276.720	2.5
1084.8029	25.00	-3.32	57621.900	1.5	66837.640	2.5
1084.8100	23.00	-.89	20202.490	2.5	29418.170	3.5
1084.8285	26.00	-4.68	51461.707	4.0	60677.230	5.0
1084.8547	28.01	-3.71	108548.610	1.5	117763.910	1.5
1084.8782	17.01	-4.66	128662.500	2.0	137877.600	2.0
1084.8830	25.00	-3.21	48270.910	2.5	57485.970	2.5
1084.8893	20.00	-1.19	35835.413	2.0	45050.419	2.0
1084.8900	8.01	-1.33	265705.000	2.5	274920.000	1.5
1084.8900	8.01	-3.81	265705.000	2.5	274920.000	2.5
1084.9018	29.01	-1.54	137212.700	1.0	146427.600	1.0
1084.9076	26.00	-3.83	47377.909	4.0	56592.760	4.0
1084.9398	26.00	-2.88	44676.963	4.0	53891.540	3.0
1084.9454	29.01	.83	138819.170	3.0	148033.700	4.0
1084.9571	27.00	-3.91	44480.140	2.5	53694.570	3.5
1084.9761	7.00	-3.73	106758.731	.5	115973.000	1.5
1085.0203	7.00	-1.30	107253.106	2.5	116467.000	1.5
1085.0478	20.00	-1.97	35835.413	2.0	45049.073	1.0
1085.1232	29.01	-2.37	136765.380	4.0	145978.400	3.0
1085.1430	22.00	-4.92	39115.958	4.0	48328.810	4.0
1085.1653	7.00	-2.68	106778.337	1.5	115991.000	2.5
1085.1962	38.01	-1.98	68645.200	0.0	77860.124	0.0
1085.1963	17.01	-.71	140740.000	1.0	149952.400	1.0
1085.2198	29.01	.22	136773.200	1.0	145985.400	2.0
1085.2220	18.00	-4.14	116999.389	2.0	126211.570	1.0
1085.2634	23.01	-3.54	64287.100	5.0	73498.930	6.0
1085.2763	10.01	-3.02	303599.930	3.5	312811.650	3.5
1085.2763	10.01	-1.92	303599.930	3.5	312811.650	4.5
1085.2830	7.00	-3.28	106778.337	1.5	115990.000	.5
1085.2830	7.00	-4.95	106778.337	1.5	115990.000	1.5
1085.2830	7.00	-3.58	106778.337	1.5	115990.000	2.5
1085.3123	22.00	-3.33	18287.560	4.0	27498.975	3.0
1085.3140	15.00	-4.77	66834.500	1.5	76045.900	2.5
1085.3258	28.01	-4.16	128803.230	2.5	138014.530	2.5
1085.3435	10.01	-1.81	303600.500	2.5	312811.650	3.5
1085.3458	18.01	-1.76	196089.870	2.5	205301.000	2.5
1085.3623	18.01	-2.31	196089.870	2.5	205300.860	1.5
1085.3642	17.00	-.61	91660.580	2.5	100871.554	3.5
1085.3906	28.01	-1.28	119656.250	3.5	128867.000	3.5
1085.3918	10.01	-2.05	303599.930	3.5	312810.670	4.5
1085.4610	22.00	-4.28	26803.417	2.0	36013.570	2.0
1085.4955	23.01	-3.29	63816.900	3.0	73026.760	2.0
1085.5212	22.00	-2.83	18145.400	2.0	27355.042	1.0
1085.5592	21.00	-2.19	32751.540	3.5	41960.860	2.5
1085.5658	26.00	-4.86	45281.816	2.0	54491.080	3.0
1085.5876	18.00	-2.81	113426.050	2.0	122635.128	2.0
1085.5980	18.01	-1.91	190942.650	.5	200151.640	1.5
1085.5985	14.00	-4.02	53387.334	1.0	62596.320	2.0
1085.6464	23.00	-2.61	20812.990	1.5	30021.570	.5
1085.6476	26.02	-4.89	213505.730	6.0	222714.300	6.0
1085.6605	27.00	-4.56	43555.220	3.5	52763.680	3.5
1085.6770	23.00	-3.16	33155.300	4.5	42363.620	3.5
1085.6994	7.01	-2.19	211287.230	3.0	220495.360	2.0
1085.7509	26.00	-3.32	42859.756	2.0	52067.450	2.0
1085.7608	22.00	-3.08	28952.100	4.0	38159.710	3.0
1085.8050	26.00	-3.95	42532.729	3.0	51739.964	2.0
1085.8068	28.01	-2.97	101366.140	2.5	110573.360	2.5
1085.8091	18.01	-4.29	204977.590	2.5	214184.790	3.5
1085.8457	20.00	-.87	38259.124	3.0	47466.014	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1085.8811	28.01	-3.78	106620.530	3.5	115827.120	3.5
1085.9223	28.01	-.30	119656.250	3.5	128862.490	4.5
1085.9389	28.01	-4.03	105668.780	2.5	114874.880	2.5
1085.9529	26.00	-3.93	44760.739	1.0	53966.720	2.0
1085.9731	28.01	-4.34	120218.220	6.5	129424.030	5.5
1086.0403	17.00	-1.06	91660.580	2.5	100865.820	2.5
1086.0615	24.00	-4.91	37883.340	2.0	47088.400	1.0
1086.0946	17.00	-2.36	91660.580	2.5	100865.360	1.5
1086.1070	18.00	-2.65	105617.315	2.0	114821.990	3.0
1086.1359	24.00	-3.81	46000.360	3.0	55204.790	3.0
1086.1406	10.01	-1.35	292651.320	1.5	301855.710	2.5
1086.1582	20.00	-.17	39333.382	0.0	48537.623	1.0
1086.1642	27.00	-3.46	45111.480	4.5	54315.670	5.5
1086.2161	10.01	.56	281998.280	2.5	291202.030	3.5
1086.2241	9.00	.16	118936.797	1.5	128140.480	2.5
1086.2404	22.00	-3.86	26892.926	3.0	36096.470	3.0
1086.2991	22.00	-4.53	33655.853	2.0	42858.900	3.0
1086.3127	7.00	-4.24	107037.069	2.5	116240.000	1.5
1086.3127	7.00	-2.25	107037.069	2.5	116240.000	2.5
1086.3294	28.00	-2.43	49327.560	3.0	58530.350	3.0
1086.3546	26.00	-1.17	38175.332	3.0	47377.909	4.0
1086.3871	20.00	-.28	39335.322	1.0	48537.623	1.0
1086.4274	28.01	-1.77	106007.890	2.5	115209.850	3.5
1086.4522	8.01	-1.12	245902.850	2.5	255104.600	2.5
1086.4569	28.01	-1.51	119665.290	2.5	128867.000	3.5
1086.4711	29.01	-1.01	136754.110	2.0	145955.700	1.0
1086.4883	20.00	-1.04	33317.264	0.0	42518.708	1.0
1086.5101	28.01	-4.81	68131.210	3.5	77332.470	2.5
1086.5254	25.00	-3.94	45259.170	1.5	54460.300	2.5
1086.5573	28.01	-2.71	121120.880	5.5	130321.740	5.5
1086.5644	29.01	-3.14	141542.100	2.0	150742.900	3.0
1086.5916	10.01	-1.18	281171.380	2.5	290371.950	2.5
1086.6616	22.00	-1.88	29907.273	2.0	39107.250	1.0
1086.6917	10.00	-2.70	163657.268	1.0	172856.990	1.0
1086.7022	22.00	-3.37	39715.437	3.0	48915.070	2.0
1086.7214	9.02	-.58	431967.930	.5	441167.400	.5
1086.7297	15.01	-3.19	129110.600	1.0	138310.000	2.0
1086.7344	18.01	-.92	200138.850	3.5	209338.210	3.5
1086.7416	28.01	-2.81	121125.410	4.5	130324.710	4.5
1086.7723	27.00	-2.77	43435.580	.5	52634.620	.5
1086.7746	18.01	.75	200138.850	3.5	209337.870	4.5
1086.7864	18.01	-.37	186890.950	2.5	196089.870	2.5
1086.8640	16.00	-4.18	69236.936	2.0	78435.200	3.0
1086.8790	14.00	.04	49933.775	3.0	59131.912	4.0
1086.9353	28.01	.37	119656.250	3.5	128853.910	4.5
1086.9401	28.01	-2.44	119656.250	3.5	128853.870	2.5
1086.9492	20.00	-.10	39340.080	2.0	48537.623	1.0
1086.9537	14.00	.32	40991.884	1.0	50189.389	2.0
1086.9696	18.01	-.45	185624.730	3.5	194822.100	3.5
1086.9708	22.00	-2.58	39662.150	1.0	48859.510	1.0
1087.0689	27.00	-3.39	43263.570	1.5	52460.100	2.5
1087.0878	18.01	-3.59	206245.570	3.5	215441.940	4.5
1087.0925	28.01	-3.38	121125.410	4.5	130321.740	5.5
1087.1053	26.00	-2.70	44551.325	3.0	53747.547	3.0
1087.1174	23.01	-2.25	64026.600	4.0	73222.720	4.0
1087.1457	28.01	-4.89	122441.220	4.5	131637.100	3.5
1087.1871	28.01	-4.53	121125.410	4.5	130320.940	3.5
1087.2499	22.00	-4.26	32857.721	3.0	42052.720	3.0
1087.2661	10.00	-2.41	163657.268	1.0	172852.130	0.0
1087.2896	7.00	-2.84	106778.337	1.5	115973.000	1.5
1087.2959	23.00	-3.75	17054.870	2.5	26249.480	1.5
1087.3207	38.01	-.24	55769.700	0.0	64966.619	0.0
1087.4047	28.01	-4.98	121042.570	1.5	130236.260	2.5
1087.4343	24.00	-1.15	35398.020	4.0	44591.460	5.0
1087.4366	10.01	-2.90	294086.490	1.5	303279.910	2.5
1087.4496	23.00	-4.87	33360.310	3.5	42553.620	4.5
1087.4543	18.01	-4.20	204996.090	3.5	214189.360	4.5
1087.5301	28.01	-3.47	121120.880	5.5	130313.510	5.5
1087.5470	22.00	-4.79	18287.560	4.0	27480.047	3.0
1087.5691	28.01	-2.63	128822.230	1.5	138014.530	2.5
1087.6638	7.01	-.25	220716.000	3.0	229907.500	4.0
1087.6792	23.00	-2.65	20830.200	.5	30021.570	.5
1087.7218	27.00	-4.75	46329.630	2.5	55520.640	3.5
1087.7235	20.00	-2.05	36547.688	0.0	45738.684	1.0
1087.7621	9.02	-.82	431967.930	.5	441158.600	1.5
1087.7762	28.00	-2.66	49327.560	3.0	58518.110	4.0
1087.8337	26.00	-3.93	42859.756	2.0	52049.820	2.0
1087.8413	24.00	-4.63	33934.880	3.0	43124.880	2.0
1087.8461	20.00	-4.11	38259.124	3.0	47449.083	2.0
1087.8472	27.00	-4.86	46260.020	1.5	55449.970	2.5
1087.9159	7.00	-1.15	95493.660	1.5	104683.030	2.5
1087.9325	9.00	-3.63	117391.950	.5	126581.180	.5
1087.9479	18.01	-3.67	189414.960	3.5	198604.060	4.5
1087.9644	24.00	-4.16	37233.500	5.0	46422.460	4.0
1087.9673	28.00	-2.35	44565.100	3.0	53754.036	2.0
1087.9868	20.00	-.19	39335.322	1.0	48524.093	0.0
1088.0094	28.01	-1.19	119665.290	2.5	128853.870	2.5
1088.0130	9.01	-3.48	277520.380	1.0	286708.930	0.0
1088.0201	23.00	-2.34	32988.820	3.5	42177.310	4.5
1088.0663	28.01	-2.12	121125.410	4.5	130313.510	5.5
1088.0907	7.00	-3.69	107253.106	2.5	116441.000	1.5
1088.0907	7.00	-3.15	107253.106	2.5	116441.000	2.5
1088.0941	18.00	-1.32	105617.315	2.0	114805.180	2.0
1088.1338	23.01	-2.05	64229.100	5.0	73416.630	5.0
1088.1515	28.01	-4.47	128827.150	3.5	138014.530	2.5
1088.1768	26.00	-4.16	22946.810	1.0	32133.977	2.0
1088.1847	23.00	-4.85	32846.740	2.5	42033.840	1.5
1088.2143	28.00	-3.73	50039.180	2.0	59226.030	1.0
1088.2321	17.01	-3.32	161348.400	1.0	170535.100	2.0
1088.2420	22.00	-2.54	37538.804	2.0	46725.420	3.0
1088.2593	18.01	-3.48	206255.230	2.5	215441.700	3.5
1088.2809	14.00	-.87	48264.292	3.0	57450.580	3.0
1088.3243	9.00	-.82	118936.797	1.5	128122.719	1.5
1088.3292	28.01	-3.63	121294.670	4.5	130480.550	3.5
1088.3434	9.01	-2.57	277520.380	1.0	286706.140	1.0
1088.3475	22.00	-3.38	37852.434	4.0	47038.160	3.0
1088.3802	25.00	-2.77	53109.210	2.5	62294.660	3.5
1088.3814	18.01	-1.61	186890.950	2.5	196076.390	1.5
1088.4145	22.00	-4.45	28791.620	1.0	37976.780	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1088.4347	10.01	-2.42	294333.220	.5	303518.210	1.5
1088.4572	7.00	-1.04	95532.120	2.5	104716.920	3.5
1088.5094	9.01	-4.33	277521.780	2.0	286706.140	1.0
1088.5165	29.01	-.94	137913.800	1.0	147098.100	0.0
1088.5165	29.01	-.78	139331.300	3.0	148515.600	4.0
1088.5268	7.00	-4.56	107182.788	1.5	116367.000	.5
1088.5268	7.00	-2.87	107182.788	1.5	116367.000	1.5
1088.5268	7.00	-2.01	107182.788	1.5	116367.000	2.5
1088.5332	14.00	.04	49850.830	2.0	59034.988	3.0
1088.5342	6.00	-3.05	80782.510	1.0	89966.660	2.0
1088.5425	16.01	-.25	155818.370	2.5	165002.450	1.5
1088.5597	20.00	-1.58	36554.749	1.0	45738.684	1.0
1088.6089	7.00	-2.36	106980.480	.5	116164.000	.5
1088.6089	7.00	-2.48	106980.480	.5	116164.000	1.5
1088.6219	20.02	-3.40	373880.370	3.0	383063.780	3.0
1088.6351	10.00	-.65	161699.661	2.0	170882.960	3.0
1088.6388	22.00	-3.76	27025.652	4.0	36208.920	4.0
1088.6706	26.01	-4.10	54904.500	3.5	64087.500	2.5
1088.6831	7.00	-3.32	107253.106	2.5	116436.000	1.5
1088.6831	7.00	-2.16	107253.106	2.5	116436.000	2.5
1088.7298	29.01	.06	136773.200	1.0	145955.700	1.0
1088.7678	25.00	-4.68	51638.170	2.5	60820.350	2.5
1088.7915	18.01	-2.82	196119.020	3.5	205301.000	2.5
1088.8034	18.01	-1.87	201345.220	1.5	210527.100	2.5
1088.8125	10.00	-2.18	162899.113	2.0	172080.916	1.0
1088.8454	20.00	-4.01	37298.287	2.0	46479.813	1.0
1088.8474	10.00	-1.96	161701.451	3.0	170882.960	3.0
1088.8474	10.00	-.52	161701.451	3.0	170882.960	4.0
1088.8828	24.00	-4.83	44746.260	6.0	53927.470	6.0
1088.8982	25.00	-4.73	34463.370	1.5	43644.450	1.5
1088.9078	10.00	-1.35	161699.661	2.0	170880.660	2.0
1088.9078	10.00	-2.50	161699.661	2.0	170880.660	3.0
1088.9124	20.02	-4.85	373880.370	3.0	383061.330	2.0
1088.9172	28.01	-4.30	121120.880	5.5	130301.800	6.5
1088.9195	9.01	-2.65	277520.380	1.0	286701.280	2.0
1088.9765	29.01	.91	136765.380	4.0	145945.800	5.0
1089.0046	26.00	-4.12	42859.756	2.0	52039.939	1.0
1089.0857	9.01	-2.13	277521.780	2.0	286701.280	2.0
1089.0892	8.01	-3.68	248514.230	1.5	257693.700	.5
1089.1001	7.00	-3.42	107445.622	1.5	116625.000	1.5
1089.1001	7.00	-3.39	107445.622	1.5	116625.000	2.5
1089.1129	25.02	-2.45	208935.880	4.5	218115.150	3.5
1089.1202	10.00	-2.50	161701.451	3.0	170880.660	2.0
1089.1202	10.00	-1.20	161701.451	3.0	170880.660	3.0
1089.1318	28.00	-1.46	33610.916	2.0	42790.027	2.0
1089.1723	22.00	-3.87	33680.130	3.0	42858.900	3.0
1089.1782	7.00	-1.56	95475.280	.5	104654.000	.5
1089.1806	29.01	-1.31	138883.000	4.0	148061.700	3.0
1089.2260	26.00	-4.08	43079.013	1.0	52257.330	0.0
1089.2292	24.00	-4.97	37244.170	4.0	46422.460	4.0
1089.2357	18.00	-1.70	105462.804	3.0	114641.040	2.0
1089.2443	22.00	-2.42	37659.927	3.0	46838.090	4.0
1089.3684	14.00	-1.84	49933.775	3.0	59110.892	2.0
1089.4117	22.00	-3.69	39152.057	5.0	48328.810	4.0
1089.4368	7.00	-2.74	106814.459	2.5	115991.000	2.5
1089.4369	25.00	-2.63	53124.090	3.5	62300.630	4.5
1089.4690	28.01	-4.66	112686.300	2.5	121862.570	3.5
1089.4738	28.01	-4.74	121294.670	4.5	130470.900	4.5
1089.4759	7.00	-2.70	107182.788	1.5	116359.000	2.5
1089.4792	14.00	-1.49	49933.775	3.0	59109.959	3.0
1089.4892	17.01	-3.74	137877.600	2.0	147053.700	2.0
1089.4893	10.00	-2.63	161699.661	2.0	170875.760	1.0
1089.4893	10.00	-3.58	161699.661	2.0	170875.760	2.0
1089.5106	23.00	-4.07	32988.820	3.5	42164.740	3.5
1089.5284	24.00	-3.71	36558.550	2.0	45734.320	2.0
1089.5545	18.01	-1.99	201351.550	2.5	210527.100	2.5
1089.5556	7.00	-3.05	106814.459	2.5	115990.000	1.5
1089.5556	7.00	-2.40	106814.459	2.5	115990.000	2.5
1089.5629	22.00	-3.90	20795.599	5.0	29971.078	4.0
1089.5664	18.01	-1.11	185624.730	3.5	194800.180	4.5
1089.5856	22.00	-1.38	27025.652	4.0	36200.940	5.0
1089.5913	18.00	-1.85	113426.050	2.0	122601.290	1.0
1089.5937	24.01	-3.82	59130.510	1.5	68305.730	1.5
1089.6316	26.00	-3.09	24772.019	1.0	33946.920	2.0
1089.6768	7.00	-3.85	106980.480	.5	116155.000	.5
1089.6768	7.00	-2.91	106980.480	.5	116155.000	1.5
1089.7018	10.00	-2.44	161701.451	3.0	170875.760	2.0
1089.7433	28.01	-2.67	121146.980	2.5	130320.940	3.5
1089.7505	27.00	-3.49	42988.120	3.5	52162.020	3.5
1089.7932	18.01	-2.33	196076.390	1.5	205249.930	2.5
1089.8087	22.00	-3.21	39686.100	2.0	48859.510	1.0
1089.8110	29.01	.22	136754.110	2.0	145927.500	2.0
1089.8598	28.01	-2.08	109269.830	1.5	118442.810	1.5
1089.8783	22.00	-2.42	26892.926	3.0	36065.750	3.0
1089.9287	18.01	-.91	190507.360	1.5	199679.760	2.5
1089.9378	26.00	-4.10	42532.729	3.0	51705.052	2.0
1089.9426	10.00	-2.48	162899.113	2.0	172071.396	2.0
1090.0811	20.00	-1.14	35818.713	3.0	44989.830	2.0
1090.0867	26.02	-4.89	192006.940	2.0	201178.010	1.0
1090.1069	28.01	.58	119656.250	3.5	128827.150	3.5
1090.1462	25.00	-3.02	53124.090	3.5	62294.660	3.5
1090.1616	7.00	-2.60	95493.660	1.5	104664.100	1.5
1090.1806	18.01	-3.85	196103.310	4.5	205273.590	5.5
1090.1985	28.01	-3.97	107142.210	1.5	116312.340	1.5
1090.2104	19.00	-2.70	24701.430	.5	33871.460	.5
1090.2104	6.00	-4.44	80801.270	2.0	89971.300	3.0
1090.2200	2.00	-2.31	186105.000	0.0	195277.461	0.0
1090.2258	13.01	-.20	133679.300	3.0	142849.200	4.0
1090.2258	13.01	-.01	133679.300	3.0	142849.200	4.0
1090.2258	13.01	-4.21	133679.300	3.0	142849.200	3.0
1090.3839	18.01	-1.04	190511.190	2.5	199679.760	2.5
1090.3887	29.01	-4.50	138819.170	3.0	147987.700	2.0
1090.4113	27.00	-4.19	42988.120	3.5	52156.460	4.5
1090.4265	7.00	-4.28	107182.788	1.5	116351.000	.5
1090.4265	7.00	-3.13	107182.788	1.5	116351.000	1.5
1090.4555	7.00	-3.50	106996.032	1.5	116164.000	.5
1090.4555	7.00	-2.80	106996.032	1.5	116164.000	1.5
1090.4555	7.00	-2.78	106996.032	1.5	116164.000	2.5
1090.4672	29.01	.41	138898.430	1.0	148066.300	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1090.4696	28.01	-4.80	105668.780	2.5	114836.630	3.5
1090.4803	18.01	-1.40	201345.220	1.5	210512.980	1.5
1090.4839	18.01	-4.77	190942.650	.5	200110.380	.5
1090.5600	28.01	-2.78	121146.980	2.5	130314.070	2.5
1090.5827	26.00	-3.01	44664.061	2.0	53830.960	3.0
1090.5874	24.00	-.65	27728.870	2.0	36895.730	3.0
1090.6183	13.01	-4.61	133440.400	3.0	142607.000	2.0
1090.6207	18.01	-3.55	196076.390	1.5	205242.970	.5
1090.6209	18.00	-3.97	113468.550	2.0	122635.128	2.0
1090.6540	17.01	-3.79	161348.400	1.0	170514.700	1.0
1090.7456	7.01	-.04	202170.630	1.0	211336.160	1.0
1090.7456	6.00	-2.97	80801.270	2.0	89966.800	3.0
1090.7622	6.00	-2.54	80801.270	2.0	89966.660	2.0
1090.7694	23.01	-4.90	64057.390	3.0	73222.720	4.0
1090.8028	27.00	-4.10	43537.710	1.5	52702.760	1.5
1090.8657	26.00	-3.33	44760.739	1.0	53925.260	1.0
1090.9063	7.01	-3.29	178273.380	0.0	187437.560	1.0
1090.9795	20.00	-1.36	36575.119	2.0	45738.684	1.0
1091.0135	23.00	-2.88	28768.130	4.5	37931.410	5.5
1091.0379	22.00	-1.76	29986.185	3.0	39149.260	2.0
1091.0492	23.01	-2.92	64130.840	4.0	73293.820	5.0
1091.0506	7.00	-2.69	106996.032	1.5	116159.000	2.5
1091.0516	23.00	-4.63	17181.980	4.5	26344.940	4.5
1091.0575	25.00	-4.82	48225.990	3.5	57388.900	4.5
1091.0873	28.01	-3.44	121317.890	3.5	130480.550	3.5
1091.0916	26.00	-3.96	49108.876	4.0	58271.500	5.0
1091.1147	23.00	-3.05	28595.640	3.5	37758.070	4.5
1091.1826	28.01	-.01	119665.290	2.5	128827.150	3.5
1091.2338	18.01	-3.25	201351.550	2.5	210512.980	1.5
1091.2900	2.00	-.10	186102.000	0.0	195265.467	0.0
1091.3255	28.01	-2.27	128853.870	2.5	138014.530	2.5
1091.3636	7.00	-3.84	95493.660	1.5	104654.000	.5
1091.3946	25.00	-2.34	52870.100	3.5	62030.180	4.5
1091.3970	18.01	-1.16	196089.870	2.5	205249.930	2.5
1091.4244	12.01	.02	71490.190	2.5	80650.020	1.5
1091.4744	26.02	-3.39	192006.940	2.0	201166.350	3.0
1091.4887	38.01	-.64	14555.900	0.0	23717.699	0.0
1091.5271	7.00	-3.14	106996.032	1.5	116155.000	.5
1091.5271	7.00	-3.07	106996.032	1.5	116155.000	1.5
1091.5280	12.01	-.93	71491.060	1.5	80650.020	1.5
1091.5780	7.00	-3.02	106814.459	2.5	115973.000	1.5
1091.6394	22.00	-2.23	33700.874	4.0	42858.900	3.0
1091.6425	8.01	-1.99	265762.000	1.5	274920.000	1.5
1091.6425	8.01	-2.64	265762.000	1.5	274920.000	2.5
1091.6699	18.01	-.76	189654.780	2.5	198812.550	2.5
1091.6704	14.00	-4.75	53387.334	1.0	62545.100	1.0
1091.7000	2.00	-.58	186105.000	0.0	195265.026	0.0
1091.7116	14.00	-3.19	53362.240	3.0	62519.660	2.0
1091.7295	26.02	-3.93	192006.940	2.0	201164.210	2.0
1091.7617	8.01	-1.52	265763.000	3.5	274920.000	2.5
1091.7688	28.01	-1.28	119665.290	2.5	128822.230	1.5
1091.9069	28.00	-3.53	45418.858	2.0	54574.640	1.0
1091.9100	3.00	-.28	31283.000	0.0	40441.264	0.0
1091.9215	25.02	-2.71	208819.640	3.5	217975.300	2.5
1091.9304	20.00	-1.56	36731.615	1.0	45887.200	0.0
1091.9423	20.00	-.75	35896.889	4.0	45052.374	3.0
1092.0698	20.00	-1.65	35835.413	2.0	44989.830	2.0
1092.0837	29.01	-.61	136773.200	1.0	145927.500	2.0
1092.1133	22.00	-2.01	30060.328	4.0	39214.380	3.0
1092.1624	22.00	-3.30	39686.100	2.0	48839.740	3.0
1092.1899	22.00	-4.97	34078.580	3.0	43231.990	4.0
1092.1956	28.00	-1.72	47030.148	3.0	56183.510	4.0
1092.2376	28.01	-3.44	121317.890	3.5	130470.900	4.5
1092.2603	23.00	-3.26	28462.150	2.5	37614.970	3.5
1092.3271	28.01	-3.05	121161.810	1.5	130314.070	2.5
1092.3462	18.01	-.75	151087.250	2.5	160239.350	1.5
1092.3868	24.00	-4.75	39158.630	4.0	48310.390	5.0
1092.4083	27.00	-4.06	47393.930	2.5	56545.510	2.5
1092.4274	10.01	-.36	294086.490	1.5	303237.910	1.5
1092.4429	19.00	-2.40	24720.170	1.5	33871.460	.5
1092.4737	9.00	-.69	118936.797	1.5	128087.829	2.5
1092.4883	7.00	-2.56	95532.120	2.5	104683.030	2.5
1092.5002	24.00	-4.25	46058.200	4.0	55209.010	4.0
1092.5133	29.01	-2.00	139331.300	3.0	148482.000	3.0
1092.5133	29.01	-.72	138883.000	4.0	148033.700	4.0
1092.5229	28.01	.13	121925.160	.5	131075.780	1.5
1092.5778	19.00	-3.02	24701.430	.5	33851.590	1.5
1092.5802	29.01	-3.36	116080.460	3.0	125230.600	3.0
1092.5913	26.00	-3.20	44243.668	5.0	53393.715	4.0
1092.6086	22.00	-2.24	37824.748	4.0	46974.650	5.0
1092.6447	28.00	-3.40	50039.180	2.0	59188.780	3.0
1092.6578	29.01	-1.45	135733.600	3.0	144883.090	2.0
1092.6842	10.00	-2.43	163707.721	1.0	172856.990	1.0
1092.7581	25.00	-3.17	57305.620	3.5	66454.270	3.5
1092.7844	27.00	-2.68	44555.710	1.5	53704.140	2.5
1092.7891	10.00	-2.01	163708.599	2.0	172856.990	1.0
1092.8035	22.00	-4.20	28828.510	2.0	37976.780	2.0
1092.8262	23.01	-4.21	64130.840	4.0	73278.920	4.0
1092.8919	28.01	-2.34	128867.000	3.5	138014.530	2.5
1092.9565	29.01	-.19	136754.110	2.0	145901.100	1.0
1092.9577	28.01	.34	119656.250	3.5	128803.230	2.5
1092.9768	23.00	-4.94	30094.520	1.5	39241.340	2.5
1092.9857	18.00	-4.79	116942.815	3.0	126089.560	3.0
1092.9875	24.00	-2.15	24277.060	0.0	33423.790	1.0
1092.9887	18.01	-3.03	196103.310	4.5	205250.030	3.5
1093.0043	24.00	-2.06	46058.200	4.0	55204.790	3.0
1093.0162	6.01	-.15	178495.110	1.5	187641.600	2.5
1093.0221	55.00	-1.74	18535.519	0.0	27684.465	0.0
1093.0568	28.01	-3.57	121178.560	3.5	130324.710	4.5
1093.0604	28.01	-2.44	109148.050	4.5	118294.170	3.5
1093.0879	6.01	0.00	178495.710	2.5	187641.600	3.5
1093.0879	6.01	-1.30	178495.710	2.5	187641.600	2.5
1093.0987	29.01	.92	138883.000	4.0	148028.800	5.0
1093.1262	18.01	-.52	199446.540	.5	208592.110	.5
1093.1584	15.00	-.83	65156.400	1.5	74301.700	2.5
1093.1656	18.01	-.52	199446.540	.5	208591.780	1.5
1093.1847	18.01	-1.30	196076.390	1.5	205221.470	1.5
1093.2541	15.00	.31	65157.200	2.5	74301.700	2.5
1093.2650	10.00	-2.74	163707.721	1.0	172852.130	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1093.2660	29.01	-2.53	139217.300	2.0	148361.700	1.0
1093.2935	28.01	-3.78	121180.540	4.5	130324.710	4.5
1093.3593	24.00	-4.40	37205.880	3.0	46349.500	2.0
1093.3712	7.00	-3.84	106980.480	.5	116124.000	.5
1093.3712	7.00	-2.75	106980.480	.5	116124.000	1.5
1093.3844	24.00	-.66	48217.830	2.0	57361.240	3.0
1093.3856	8.01	-1.16	265639.000	3.5	274782.400	3.5
1093.4023	18.02	-2.83	243145.760	2.0	252289.020	3.0
1093.4239	22.01	-2.51	53128.170	1.5	62271.250	2.5
1093.4454	13.01	-2.15	139588.700	4.0	148731.600	3.0
1093.4454	13.01	-4.07	139588.700	4.0	148731.600	3.0
1093.4454	13.01	-3.49	139588.700	3.0	148731.600	3.0
1093.4865	28.00	-3.21	47030.148	3.0	56172.704	3.0
1093.5076	28.01	-4.19	121178.560	3.5	130320.940	3.5
1093.5447	27.00	-4.72	15184.040	2.5	24326.110	3.5
1093.5506	28.01	-2.00	121800.340	1.5	130942.360	1.5
1093.5578	28.01	-4.63	121800.340	1.5	130942.300	1.5
1093.5612	22.00	-3.60	35439.228	1.0	44581.160	2.0
1093.6308	27.00	-3.61	44201.920	2.5	53343.270	1.5
1093.6476	18.00	-3.77	113468.550	2.0	122609.760	1.0
1093.6487	28.01	-3.51	121180.540	4.5	130321.740	5.5
1093.6501	22.00	-1.30	29818.310	3.0	38959.499	4.0
1093.7193	24.00	-.80	48210.040	1.0	57350.650	2.0
1093.7287	22.00	-4.36	17423.853	2.0	26564.385	3.0
1093.7445	28.01	-4.47	121180.540	4.5	130320.940	3.5
1093.7672	18.01	-4.57	158167.710	1.5	167307.920	.5
1093.7684	7.00	-3.45	106477.800	.5	115618.000	1.5
1093.7732	7.00	-1.46	95475.280	.5	104615.440	1.5
1093.8414	22.00	-4.40	34327.960	1.0	43467.550	2.0
1093.8773	18.01	-2.51	191012.350	1.5	200151.640	1.5
1093.9023	17.00	-2.51	74225.846	1.5	83364.927	.5
1093.9324	29.01	-3.81	129759.600	1.0	138898.430	1.0
1093.9491	28.01	-1.17	121925.160	.5	131063.850	.5
1093.9606	28.00	-2.70	48671.900	3.0	57810.494	4.0
1093.9611	10.02	-4.46	389058.240	1.0	398196.830	2.0
1093.9826	24.00	-3.07	37883.340	2.0	47021.750	1.0
1094.0303	26.00	-2.64	44022.518	4.0	53160.530	3.0
1094.0306	9.00	-.43	119081.820	.5	128219.830	1.5
1094.0365	25.00	-3.34	57705.830	.5	66843.790	1.5
1094.0389	28.01	.38	119665.290	2.5	128803.230	2.5
1094.0784	25.00	-2.14	48168.010	4.5	57305.620	3.5
1094.1215	24.00	-2.90	24286.540	1.0	33423.790	1.0
1094.1754	8.01	-4.57	256083.500	1.5	265220.300	2.5
1094.1754	8.01	-2.08	256083.500	1.5	265220.300	1.5
1094.2161	26.01	-3.01	54904.500	3.5	64040.960	3.5
1094.2185	24.00	-2.31	35398.020	4.0	44534.460	4.0
1094.3107	27.00	-2.40	44568.470	2.5	53704.140	2.5
1094.3299	28.01	-4.70	121178.560	3.5	130314.070	2.5
1094.3458	7.00	-2.73	107445.622	1.5	116581.000	.5
1094.3458	7.00	-2.47	107445.622	1.5	116581.000	1.5
1094.3458	7.00	-2.43	107445.622	1.5	116581.000	2.5
1094.3530	26.00	-4.78	43079.013	1.0	52214.330	1.0
1094.3762	28.00	-3.39	47139.392	2.0	56274.516	2.0
1094.4425	27.00	-3.11	41918.410	3.5	51052.980	3.5
1094.4557	10.02	-3.89	389058.240	1.0	398192.700	1.0
1094.4653	23.00	-3.51	28368.760	1.5	37503.140	2.5
1094.4988	23.01	-2.26	63816.900	3.0	72951.000	4.0
1094.5516	27.00	-3.93	44568.470	2.5	53702.130	3.5
1094.5599	17.00	-1.67	91069.020	.5	100202.610	1.5
1094.5635	23.01	-2.62	63548.500	1.0	72682.060	2.0
1094.5911	17.00	-1.02	91069.020	.5	100202.350	.5
1094.6199	27.00	-2.78	42988.120	3.5	52121.210	4.5
1094.6259	26.02	-4.65	213457.820	7.0	222590.860	7.0
1094.6343	28.01	-4.83	121180.540	4.5	130313.510	5.5
1094.6522	24.00	-1.38	48217.830	2.0	57350.650	2.0
1094.6666	8.01	-1.62	256087.600	2.5	265220.300	1.5
1094.6666	8.01	-3.38	256087.600	2.5	265220.300	2.5
1094.6772	26.00	-2.72	44022.518	4.0	53155.130	4.0
1094.6870	14.02	-.78	244871.470	1.0	254004.000	2.0
1094.7038	28.01	-3.09	121192.320	3.5	130324.710	4.5
1094.7115	14.00	-3.77	53387.334	1.0	62519.660	2.0
1094.7278	6.00	-2.24	80834.610	3.0	89966.800	3.0
1094.7349	25.00	-4.50	34463.370	1.5	43595.500	2.5
1094.7446	6.00	-3.14	80834.610	3.0	89966.660	2.0
1094.7469	23.01	-2.68	63657.200	2.0	72789.230	3.0
1094.7530	7.00	-2.76	95532.120	2.5	104664.100	1.5
1094.7625	25.01	-4.61	72648.800	4.0	81780.700	3.0
1094.7770	15.00	-3.44	66544.120	2.5	75675.900	1.5
1094.7863	18.00	-1.91	112138.980	2.0	121270.682	2.0
1094.7984	18.01	-1.97	196089.870	2.5	205221.470	1.5
1094.8200	19.00	-3.69	24720.170	1.5	33851.590	1.5
1094.8248	19.00	-2.73	24720.170	1.5	33851.550	2.5
1094.8692	18.01	-1.52	196119.020	3.5	205250.030	3.5
1094.8914	26.00	-3.91	44415.057	4.0	53545.882	3.0
1094.9101	22.00	-4.70	32857.721	3.0	41988.390	3.0
1094.9268	14.02	-1.26	244871.470	1.0	254002.000	1.0
1094.9581	7.00	-3.97	106758.731	.5	115889.000	.5
1094.9581	7.00	-2.27	106758.731	.5	115889.000	1.5
1095.0215	24.00	-4.27	39158.630	4.0	48288.370	4.0
1095.0467	23.01	-3.59	64287.100	5.0	73416.630	5.0
1095.0587	10.01	-.27	283322.350	1.5	292451.780	1.5
1095.0740	18.00	-1.41	106237.597	2.0	115366.900	1.0
1095.0849	7.00	-2.73	107182.788	1.5	116312.000	.5
1095.0849	7.00	-4.03	107182.788	1.5	116312.000	1.5
1095.1559	28.01	-3.17	121192.320	3.5	130320.940	3.5
1095.1774	12.01	-.23	71491.060	1.5	80619.500	.5
1095.1980	7.00	-2.98	106758.731	.5	115887.000	.5
1095.1980	7.00	-3.57	106758.731	.5	115887.000	1.5
1095.2341	7.00	-3.15	106996.032	1.5	116124.000	.5
1095.2341	7.00	-3.24	106996.032	1.5	116124.000	1.5
1095.2341	7.00	-2.91	106996.032	1.5	116124.000	2.5
1095.2423	29.01	-1.97	136773.200	1.0	145901.100	1.0
1095.2951	10.02	-3.80	389069.370	2.0	398196.830	2.0
1095.3023	8.01	-.93	245767.800	.5	254895.200	1.5
1095.3311	18.02	-3.56	243145.760	2.0	252272.920	1.0
1095.3320	12.00	-.87	47841.119	0.0	56968.271	1.0
1095.3586	7.00	-3.25	107037.069	2.5	116164.000	2.5
1095.3586	7.00	-1.82	107037.069	2.5	116164.000	3.5
1095.3743	28.01	-3.18	121194.140	2.5	130320.940	3.5
WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1095.4067	27.00	-2.45	42434.230	2.5	51560.760	2.5
1095.4079	7.00	-3.63	106980.480	.5	116107.000	.5
1095.4079	7.00	-3.73	106980.480	.5	116107.000	1.5
1095.4283	18.01	-.26	186171.260	.5	195297.610	1.5
1095.4439	18.01	-1.32	201351.550	2.5	210477.770	3.5
1095.4583	27.00	-2.73	44568.470	2.5	53694.570	3.5
1095.4967	23.01	-3.37	63548.500	1.0	72674.280	2.0
1095.5015	26.00	-4.44	46600.800	1.0	55726.540	0.0
1095.5483	23.00	-3.16	32988.820	3.5	42114.170	3.5
1095.5785	22.00	-4.29	34204.971	4.0	43330.070	5.0
1095.6095	18.01	-.46	196089.870	2.5	205214.710	3.5
1095.6225	22.00	-4.21	17369.590	1.0	26494.322	2.0
1095.6740	22.00	-2.85	39715.437	3.0	48839.740	3.0
1095.6888	24.00	-4.08	37244.170	4.0	46368.350	3.0
1095.7224	24.00	-1.94	24299.890	2.0	33423.790	1.0
1095.7276	12.00	-1.00	47844.414	1.0	56968.271	1.0
1095.7284	27.00	-2.16	41918.410	3.5	51042.260	2.5
1095.7304	12.00	-.69	47844.414	1.0	56968.248	2.0
1095.7509	7.00	-3.52	106778.337	1.5	115902.000	2.5
1095.7671	28.00	-1.61	47139.392	2.0	56262.920	3.0
1095.7909	10.02	-4.02	389069.370	2.0	398192.700	1.0
1095.8738	27.00	-3.33	43847.980	3.5	52970.620	2.5
1095.8786	15.01	-.32	130801.700	1.0	139924.300	2.0
1095.9068	7.00	-4.38	106868.635	3.5	115991.000	2.5
1095.9251	7.00	-3.11	107182.788	1.5	116305.000	.5
1095.9251	7.00	-3.59	107182.788	1.5	116305.000	1.5
1095.9402	28.00	-4.42	49403.420	1.0	58525.507	1.0
1095.9531	22.00	-4.07	28702.768	3.0	37824.748	4.0
1095.9589	7.00	-3.75	107037.069	2.5	116159.000	2.5
1095.9627	29.01	-.43	138981.300	2.0	148103.200	3.0
1095.9771	7.00	-2.19	95493.660	1.5	104615.440	1.5
1095.9807	28.01	-3.70	121192.320	3.5	130314.070	2.5
1095.9885	18.00	-4.50	116942.815	3.0	126064.500	2.0
1096.0155	24.00	-3.84	44050.870	4.0	53172.330	5.0
1096.0269	7.00	-2.66	106868.635	3.5	115990.000	2.5
1096.0432	10.01	-.03	282680.650	.5	291801.880	1.5
1096.0864	24.00	-.50	48251.910	3.0	57372.780	4.0
1096.1501	27.00	-4.40	46329.630	2.5	55449.970	2.5
1096.1790	29.01	-2.16	139241.600	1.0	148361.700	1.0
1096.1994	28.01	-3.18	121194.140	2.5	130314.070	2.5
1096.2150	29.01	-2.96	139395.800	4.0	148515.600	4.0
1096.2259	10.01	.37	282375.330	1.5	291495.040	2.5
1096.2367	18.01	-1.80	195297.610	1.5	204417.230	1.5
1096.2391	28.01	-4.57	107142.210	1.5	116261.810	.5
1096.2523	18.01	-1.32	201345.220	1.5	210464.710	2.5
1096.2871	7.00	-2.18	106477.800	.5	115597.000	1.5
1096.3016	23.01	-3.67	64026.600	4.0	73145.680	3.0
1096.3569	28.01	-4.19	106620.530	3.5	115739.150	4.5
1096.3624	9.00	-2.06	117164.006	2.5	126282.580	1.5
1096.4017	18.00	-2.91	112138.980	2.0	121257.227	1.0
1096.4397	7.00	-4.95	107037.069	2.5	116155.000	1.5
1096.4471	29.01	-.31	138898.430	1.0	148016.300	1.0
1096.4662	28.00	-3.02	48671.900	3.0	57789.611	4.0
1096.5036	8.01	-2.04	265665.000	2.5	274782.400	3.5
1096.5272	22.00	-4.51	17540.205	3.0	26657.409	4.0
1096.5386	12.00	-2.17	47851.162	2.0	56968.271	1.0
1096.5414	12.00	-1.17	47851.162	2.0	56968.248	2.0
1096.5450	12.00	-.25	47851.162	2.0	56968.218	3.0
1096.6239	29.01	-.82	136773.200	1.0	145889.600	0.0
1096.6479	17.00	-1.19	91069.020	.5	100185.220	1.5
1096.6997	25.00	-2.18	47452.160	.5	56567.930	1.5
1096.7081	29.01	-2.19	108014.660	3.0	117130.360	2.0
1096.7442	15.00	.12	65156.400	1.5	74271.800	1.5
1096.8404	24.00	-4.91	44591.460	5.0	53706.060	5.0
1096.8405	15.00	-.83	65157.200	2.5	74271.800	1.5
1096.8880	28.00	-3.16	48715.200	4.0	57829.405	5.0
1096.9078	28.01	-2.79	112686.300	2.5	121800.340	1.5
1096.9254	7.00	-3.46	107253.106	2.5	116367.000	2.5
1096.9254	7.00	-2.15	107253.106	2.5	116367.000	3.5
1096.9316	18.00	-4.50	114147.750	1.0	123261.593	2.0
1096.9728	28.01	-1.69	108548.610	1.5	117662.110	1.5
1097.0137	18.01	-2.50	201351.550	2.5	210464.710	2.5
1097.0799	18.01	.19	200138.850	3.5	209251.460	3.5
1097.1618	28.01	-.33	121115.590	1.5	130227.520	2.5
1097.2194	26.00	-4.91	48702.518	4.0	57813.970	3.0
1097.2257	18.01	-2.69	196103.310	4.5	205214.710	3.5
1097.2257	18.01	-1.91	196103.310	4.5	205214.710	4.5
1097.2715	6.00	-3.77	88766.980	1.0	97878.000	2.0
1097.2777	7.00	-2.93	106996.032	1.5	116107.000	.5
1097.2777	7.00	-4.22	106996.032	1.5	116107.000	1.5
1097.3145	7.00	-3.97	106778.337	1.5	115889.000	.5
1097.3145	7.00	-2.84	106778.337	1.5	115889.000	1.5
1097.3365	15.00	-1.13	56339.540	2.5	65450.020	1.5
1097.3762	29.01	.63	136919.350	3.0	146029.500	4.0
1097.3798	18.01	-.06	186171.260	.5	195281.380	.5
1097.4304	18.01	-1.30	200138.850	3.5	209248.550	2.5
1097.4557	23.00	-3.88	28313.680	.5	37423.170	1.5
1097.4723	26.00	-3.16	44243.668	5.0	53353.020	6.0
1097.4750	24.00	-1.25	48251.910	3.0	57361.240	3.0
1097.4810	28.01	-2.91	109269.830	1.5	118379.110	2.5
1097.4834	28.01	-3.04	107082.210	2.5	116191.470	2.5
1097.4950	26.00	-4.68	48531.896	3.0	57641.060	3.0
1097.5497	18.01	-1.49	196103.310	4.5	205212.020	4.5
1097.5554	7.00	-3.21	106778.337	1.5	115887.000	.5
1097.5554	7.00	-2.45	106778.337	1.5	115887.000	1.5
1097.5554	7.00	-2.10	106778.337	1.5	115887.000	2.5
1097.5654	18.01	-.61	196103.310	4.5	205211.890	5.5
1097.6347	14.00	-2.37	48264.292	3.0	57372.297	2.0
1097.6437	18.02	-3.28	243145.760	2.0	252253.690	2.0
1097.7269	18.00	-2.60	114147.750	1.0	123254.990	1.0
1097.7702	27.00	-3.54	42988.120	3.5	52095.000	3.5
1097.7847	9.02	-.90	432060.640	1.5	441167.400	.5
1097.8091	22.00	-2.34	27025.652	4.0	36132.210	4.0
1097.8196	6.00	-4.20	78731.270	1.0	87837.740	1.0
1097.8196	6.00	-2.50	78731.270	1.0	87837.740	2.0
1097.8891	7.00	-2.88	107253.106	2.5	116359.000	2.5
1097.8891	7.00	-1.86	107253.106	2.5	116359.000	3.5
1097.9308	14.00	-.59	39955.053	2.0	49060.601	1.0
1097.9837	28.00	-.80	33500.854	3.0	42605.964	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1098.0391	29.01	-1.47	136919.350	3.0	146024.000	4.0
1098.0760	26.00	-3.69	45281.816	2.0	54386.160	1.0
1098.1199	28.01	-3.33	121227.800	2.5	130331.780	1.5
1098.1959	18.01	.63	200234.860	2.5	209338.210	3.5
1098.2058	14.00	-.05	49933.775	3.0	59037.043	4.0
1098.2176	9.00	-1.98	119081.820	.5	128184.990	.5
1098.2183	26.00	-4.97	47755.485	3.0	56858.650	2.0
1098.2514	23.00	-3.41	17242.050	5.5	26344.940	4.5
1098.3407	29.01	-.59	136919.350	3.0	146021.500	3.0
1098.3431	25.00	-3.67	51718.220	1.5	60820.350	2.5
1098.3564	23.00	-2.38	33155.300	4.5	42257.320	5.5
1098.3865	55.00	-2.59	18535.519	0.0	27639.782	0.0
1098.4168	6.00	-4.97	78116.740	1.0	87218.260	2.0
1098.4469	25.00	-3.20	47466.660	1.5	56567.930	1.5
1098.4493	25.00	-3.81	51638.170	2.5	60739.420	3.5
1098.4538	14.00	-.50	49933.775	3.0	59034.988	3.0
1098.4906	20.00	-3.03	39333.382	0.0	48434.290	1.0
1098.5050	22.00	-4.37	32857.721	3.0	41958.510	2.0
1098.5374	28.01	-4.00	107737.810	1.5	116838.330	1.5
1098.5531	27.00	-4.79	46454.950	1.5	55555.340	2.5
1098.5628	28.01	-2.63	121800.340	1.5	130900.650	2.5
1098.5760	8.01	-2.55	265639.000	3.5	274739.200	2.5
1098.5761	28.01	-2.64	106007.890	2.5	115108.090	2.5
1098.5930	26.01	-2.85	93484.750	4.5	102584.810	5.5
1098.6244	28.01	-3.88	129396.040	5.5	138495.840	4.5
1098.6727	13.01	-3.80	134181.200	5.0	143280.600	4.0
1098.6932	17.00	-.46	91089.450	3.5	100188.680	4.5
1098.7224	26.00	-4.11	22838.320	2.0	31937.308	1.0
1098.7248	20.00	-3.11	39335.322	1.0	48434.290	1.0
1098.7248	20.00	-2.87	39335.322	1.0	48434.290	2.0
1098.7523	24.00	-2.64	48251.910	3.0	57350.650	2.0
1098.8007	26.00	-4.60	44826.920	0.0	53925.260	1.0
1098.8381	18.01	-.74	191012.350	1.5	200110.380	.5
1098.8465	9.02	-.26	432060.640	1.5	441158.600	1.5
1098.8545	7.00	-3.80	107253.106	2.5	116351.000	1.5
1098.8871	26.00	-4.57	45281.816	2.0	54379.440	3.0
1098.9178	23.01	-2.34	30306.400	3.0	39403.770	4.0
1098.9383	8.01	-1.88	256123.100	3.5	265220.300	2.5
1098.9734	27.00	-3.34	43537.710	1.5	52634.620	.5
1098.9734	18.01	-4.74	200151.640	1.5	209248.550	2.5
1098.9903	26.02	-4.73	213505.730	6.0	222602.500	6.0
1099.0145	28.01	-4.18	104081.040	4.5	113177.610	3.5
1099.0483	28.01	-.67	119773.600	6.5	128869.890	5.5
1099.0508	7.00	-2.99	106758.731	.5	115855.000	.5
1099.0508	7.00	-3.29	106758.731	.5	115855.000	1.5
1099.0662	22.00	-1.85	25438.898	2.0	34535.040	2.0
1099.0684	12.00	-3.82	49346.729	1.0	58442.853	2.0
1099.0862	17.00	-3.12	91089.450	3.5	100185.426	2.5
1099.1136	6.00	-2.69	78731.270	1.0	87827.020	2.0
1099.1208	18.01	-4.19	196119.020	3.5	205214.710	3.5
1099.1208	18.01	-1.05	196119.020	3.5	205214.710	4.5
1099.1401	24.00	-3.82	46109.260	2.0	55204.790	3.0
1099.1486	18.01	-2.32	201351.550	2.5	210447.010	3.5
1099.1686	28.00	-3.44	48715.200	4.0	57810.494	4.0
1099.1753	22.00	-5.00	37555.021	3.0	46650.260	3.0
1099.2574	24.00	-2.81	48288.370	4.0	57382.930	5.0
1099.2646	8.01	-3.01	256125.800	2.5	265220.300	2.5
1099.2646	8.01	-2.99	256125.800	2.5	265220.300	1.5
1099.2839	22.00	-3.56	28882.440	3.0	37976.780	2.0
1099.2996	20.00	-4.21	39340.080	2.0	48434.290	1.0
1099.2996	20.00	-3.28	39340.080	2.0	48434.290	2.0
1099.2996	20.00	-2.43	39340.080	2.0	48434.290	3.0
1099.3190	23.00	-4.07	14514.750	1.5	23608.800	1.5
1099.3323	23.00	-1.02	20202.490	2.5	29296.430	2.5
1099.3368	26.00	-3.42	45281.816	2.0	54375.719	2.0
1099.3492	24.00	-3.82	35572.940	2.0	44666.740	1.0
1099.3529	56.01	-1.92	57631.640	0.0	66727.900	0.0
1099.3891	23.01	-3.46	44657.990	2.0	53751.460	1.0
1099.4460	18.01	-.98	196119.020	3.5	205212.020	4.5
1099.4566	22.00	-4.48	39115.958	4.0	48208.870	3.0
1099.5753	28.01	-4.47	110573.360	2.5	119665.290	2.5
1099.5765	28.01	-3.40	104081.040	4.5	113172.960	4.5
1099.5814	23.01	-3.25	64130.840	4.0	73222.720	4.0
1099.6394	8.01	-.76	265691.000	3.5	274782.400	3.5
1099.6552	23.01	-3.36	63816.900	3.0	72908.170	3.0
1099.6600	2.00	-2.03	186102.000	0.0	195195.720	0.0
1099.7881	18.00	-3.23	116999.389	2.0	126089.560	3.0
1099.8596	18.01	-1.41	190942.650	.5	200032.230	1.5
1099.8608	25.00	-3.85	57305.620	3.5	66395.190	2.5
1099.8971	29.01	-.82	138898.430	1.0	147987.700	2.0
1099.9503	18.01	-2.05	205100.530	5.5	214189.360	4.5
1099.9782	13.01	-2.11	134181.200	4.0	143269.800	3.0
1099.9782	13.01	-2.03	134181.200	4.0	143269.800	3.0
1100.1064	7.00	-2.65	106814.459	2.5	115902.000	2.5
1100.1064	7.00	-2.08	106814.459	2.5	115902.000	3.5
1100.1537	6.00	-3.97	88790.850	1.0	97878.000	2.0
1100.1803	7.00	-2.71	107037.069	2.5	116124.000	1.5
1100.1803	7.00	-2.54	107037.069	2.5	116124.000	2.5
1100.2525	28.00	-3.20	42954.234	2.0	52040.568	2.0
1100.2546	26.00	-4.94	44676.963	4.0	53763.280	3.0
1100.2579	28.01	-1.45	122047.290	3.5	131133.580	2.5
1100.2688	29.01	-4.58	139395.800	4.0	148482.000	3.0
1100.3475	28.01	-3.95	107082.210	2.5	116167.760	1.5
1100.3547	24.00	-4.69	45719.200	1.0	54804.690	1.0
1100.3741	28.01	-.03	121111.900	.5	130197.230	1.5
1100.3971	23.01	-3.23	30318.630	4.0	39403.770	4.0
1100.3983	26.02	-4.92	213505.730	6.0	222590.860	7.0
1100.4092	18.01	-3.79	205104.320	4.5	214189.360	4.5
1100.4141	29.01	-1.26	138981.300	2.0	148066.300	2.0
1100.4274	7.01	-2.68	211410.470	3.0	220495.360	2.0
1100.4916	24.00	-2.83	37883.340	2.0	46967.700	2.0
1100.5001	28.01	-4.91	113753.040	4.5	122837.330	4.5
1100.5074	24.00	-3.94	45734.320	2.0	54818.550	2.0
1100.5127	14.00	-1.97	50189.389	2.0	59273.575	1.0
1100.5243	27.00	-3.46	41968.890	2.5	51052.980	3.5
1100.5716	6.00	-4.93	88794.300	2.0	97878.000	2.0
1100.5910	10.01	-4.50	281720.280	1.5	290803.820	.5
1100.5975	26.00	-3.09	44664.061	2.0	53747.547	3.0
1100.6176	7.00	-2.75	95532.120	2.5	104615.440	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1100.6238	7.00	-2.78	106758.731	.5	115842.000	.5
1100.6238	7.00	-4.29	106758.731	.5	115842.000	1.5
1100.6564	17.01	-2.51	144174.000	3.0	153257.000	2.0
1100.6831	16.00	-1.87	70701.840	2.0	79784.620	3.0
1100.7655	24.00	-3.58	45722.590	0.0	54804.690	1.0
1100.7776	28.01	.37	119773.600	6.5	128855.600	6.5
1100.7921	27.00	-4.45	42988.120	3.5	52070.000	2.5
1100.8212	28.01	-.53	121115.590	1.5	130197.230	1.5
1100.8382	13.01	-4.47	134181.200	3.0	143262.700	2.0
1100.8588	29.01	-.57	135733.600	3.0	144814.930	3.0
1100.8709	28.01	-4.45	105861.190	2.5	114942.420	1.5
1100.8709	23.00	-4.46	32988.820	3.5	42070.050	2.5
1100.8823	22.00	-2.89	18825.890	1.0	27907.026	2.0
1100.9522	17.00	-2.69	91089.450	3.5	100170.010	2.5
1100.9523	10.00	-3.02	163401.301	0.0	172481.860	1.0
1100.9631	18.01	-2.21	205104.320	4.5	214184.790	3.5
1100.9715	29.01	.59	138981.300	2.0	148061.700	3.0
1100.9728	17.00	-1.71	91089.450	3.5	100169.840	3.5
1100.9958	7.01	-2.24	211415.160	2.0	220495.360	2.0
1101.0649	25.00	-2.94	48225.990	3.5	57305.620	3.5
1101.1218	22.00	-4.93	28772.860	0.0	37852.021	1.0
1101.1498	24.00	-1.98	48310.390	5.0	57389.320	6.0
1101.1522	8.01	-.41	245816.290	1.5	254895.200	1.5
1101.1522	8.01	-1.02	245816.290	1.5	254895.200	2.5
1101.1559	28.00	-3.44	50039.180	2.0	59118.060	2.0
1101.2384	15.01	.64	129666.100	2.0	138744.300	3.0
1101.3026	28.01	-.17	122047.290	3.5	131124.960	3.5
1101.3100	2.00	-1.28	184865.000	0.0	193945.096	0.0
1101.3269	26.00	-1.63	38678.015	2.0	47755.485	3.0
1101.3354	8.01	-3.44	265705.000	2.5	274782.400	3.5
1101.3704	14.00	-1.09	50054.800	4.0	59131.912	4.0
1101.3840	8.01	-3.86	256143.300	3.5	265220.300	2.5
1101.4123	17.00	-1.48	91089.450	3.5	100166.217	3.5
1101.4248	7.00	-2.99	106778.337	1.5	115855.000	.5
1101.4248	7.00	-2.48	106778.337	1.5	115855.000	1.5
1101.4248	7.00	-3.73	106778.337	1.5	115855.000	2.5
1101.4288	26.01	-.72	78525.270	2.5	87601.900	1.5
1101.4737	28.01	-4.69	129419.580	4.5	138495.840	4.5
1101.4795	7.00	-4.09	107182.788	1.5	116259.000	.5
1101.4795	7.00	-4.28	107182.788	1.5	116259.000	1.5
1101.4795	7.00	-2.92	107182.788	1.5	116259.000	2.5
1101.4810	22.01	-5.56	20891.880	3.5	29968.080	4.5
1101.4824	17.00	-1.02	91089.450	3.5	100165.638	4.5
1101.5174	25.00	-3.51	59617.120	6.5	68693.020	5.5
1101.5478	8.01	-.60	246028.950	3.5	255104.600	2.5
1101.5563	17.00	-4.54	91127.030	2.5	100202.610	1.5
1101.5660	24.00	-2.36	27820.230	3.0	36895.730	3.0
1101.5902	13.01	-4.39	138496.700	1.0	147572.000	0.0
1101.5902	13.01	-4.00	138496.700	1.0	147572.000	1.0
1101.5902	13.01	-3.69	138496.700	1.0	147572.000	2.0
1101.6109	27.00	-4.15	46502.150	.5	55577.280	1.5
1101.6291	14.01	-1.29	113760.410	3.5	122835.390	3.5
1101.6291	14.01	.25	113760.410	3.5	122835.390	4.5
1101.6497	14.01	.14	113760.580	2.5	122835.390	3.5
1101.6824	7.00	-4.40	106814.459	2.5	115889.000	1.5
1101.6982	28.00	-2.72	48715.200	4.0	57789.611	4.0
1101.7238	8.01	-.86	265665.000	2.5	274739.200	2.5
1101.7966	14.00	.61	50054.800	4.0	59128.400	5.0
1101.8355	14.02	-.97	244928.720	0.0	254002.000	1.0
1101.8464	28.00	-4.69	50789.500	4.0	59862.690	5.0
1101.8719	18.00	-3.58	114147.750	1.0	123220.730	2.0
1101.8853	24.00	-3.04	48288.370	4.0	57361.240	3.0
1101.9252	7.00	-3.39	106814.459	2.5	115887.000	1.5
1101.9252	7.00	-2.41	106814.459	2.5	115887.000	3.5
1101.9254	24.00	-4.41	48310.390	5.0	57382.930	5.0
1101.9873	19.00	-1.34	21534.700	2.5	30606.730	2.5
1101.9873	19.00	-.03	21534.700	2.5	30606.730	3.5
1102.0140	28.01	-3.23	129424.030	5.5	138495.840	4.5
1102.0279	28.00	-3.10	48671.900	3.0	57743.596	3.0
1102.0286	10.02	-3.89	389139.050	3.0	398210.740	3.0
1102.0323	25.01	-4.84	70497.440	4.0	79569.100	5.0
1102.0331	22.00	-2.28	37172.947	1.0	46244.600	2.0
1102.0618	26.00	-3.04	42532.729	3.0	51604.146	3.0
1102.0899	10.00	-1.94	158795.992	1.0	167867.178	0.0
1102.1562	14.02	-1.10	244933.360	1.0	254004.000	2.0
1102.1734	26.00	-4.34	51294.262	3.0	60364.760	3.0
1102.1770	22.00	-4.17	17423.853	2.0	26494.322	2.0
1102.1890	24.00	-3.33	45734.320	2.0	54804.690	1.0
1102.2133	6.00	-3.36	78148.090	2.0	87218.260	2.0
1102.2423	7.00	-3.69	107037.069	2.5	116107.000	1.5
1102.2668	19.00	-.19	21537.000	1.5	30606.730	2.5
1102.3057	27.00	-3.85	39649.160	3.5	48718.570	2.5
1102.3069	29.01	-3.45	138028.700	1.0	147098.100	0.0
1102.3798	28.01	-.24	121115.590	1.5	130184.390	2.5
1102.3993	14.02	-1.57	244933.360	1.0	254002.000	1.0
1102.4053	28.01	-4.85	113753.040	4.5	122821.630	5.5
1102.4412	10.00	-2.31	163012.621	1.0	172080.916	1.0
1102.4458	22.00	-4.62	33655.853	2.0	42724.110	2.0
1102.4783	28.01	-.32	122047.290	3.5	131115.280	4.5
1102.5780	23.00	-4.95	17054.870	2.5	26122.040	3.5
1102.6035	18.01	-.72	199525.150	1.5	208592.110	.5
1102.6283	26.00	-4.53	51739.964	2.0	60806.720	3.0
1102.6303	28.01	.49	119665.290	2.5	128732.030	1.5
1102.6327	28.01	-3.57	103653.030	3.5	112719.750	3.5
1102.6388	24.00	-4.77	44050.870	4.0	53117.540	4.0
1102.6436	18.01	-.02	199525.150	1.5	208591.780	1.5
1102.6852	28.00	-1.70	47208.228	1.0	56274.516	2.0
1102.7142	29.01	-.85	136919.350	3.0	145985.400	2.0
1102.7819	22.00	-3.32	37659.927	3.0	46725.420	3.0
1102.7908	28.01	-4.00	127895.330	3.5	136960.750	2.5
1102.8006	18.01	-2.15	191169.520	1.5	200234.860	2.5
1102.8285	18.00	-3.83	116999.389	2.0	126064.500	2.0
1102.8614	27.00	-3.51	43199.650	2.5	52264.490	1.5
1102.8760	23.01	-2.24	64229.100	5.0	73293.820	5.0
1102.9429	14.02	-.34	244943.310	2.0	254007.480	3.0
1102.9636	38.01	-.76	68793.600	0.0	77860.082	0.0
1103.0046	7.00	-2.78	106778.337	1.5	115842.000	.5
1103.0046	7.00	-3.48	106778.337	1.5	115842.000	1.5
1103.0232	28.01	-1.10	119773.600	6.5	128837.110	5.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1103.0269	28.01	-3.98	107082.210	2.5	116145.690	3.5
1103.0464	25.00	-3.29	59652.900	5.5	68716.220	4.5
1103.0500	17.00	-2.91	83130.900	1.5	92194.190	1.5
1103.1157	24.00	-4.94	36552.130	3.0	45614.880	4.0
1103.1242	22.00	-3.39	39662.150	1.0	48724.830	1.0
1103.1291	18.01	-4.38	195866.760	1.5	204929.400	.5
1103.1595	24.00	-3.25	48310.390	5.0	57372.780	4.0
1103.1839	22.00	-3.27	39662.150	1.0	48724.340	2.0
1103.1912	28.01	-1.88	121111.900	.5	130174.030	1.5
1103.2074	12.00	-3.06	47957.028	2.0	57019.025	2.0
1103.2095	12.00	-2.14	47957.045	3.0	57019.025	2.0
1103.2100	3.00	-1.28	30925.000	0.0	39989.457	0.0
1103.2108	12.00	-4.06	47957.056	1.0	57019.025	2.0
1103.2290	18.01	-2.45	170530.310	3.5	179592.130	2.5
1103.2728	24.00	-4.84	35813.730	3.0	44875.190	2.0
1103.2825	22.00	-3.62	37976.780	2.0	47038.160	3.0
1103.2922	23.00	-3.78	28313.680	.5	37374.980	.5
1103.3287	8.01	-3.00	265859.000	.5	274920.000	1.5
1103.3658	12.00	-2.58	47957.028	2.0	57017.724	1.0
1103.3665	14.02	-1.09	244943.310	2.0	254004.000	2.0
1103.3692	12.00	-2.89	47957.056	1.0	57017.724	1.0
1103.4283	18.00	-4.51	117151.387	1.0	126211.570	1.0
1103.4479	12.00	-2.76	47957.056	1.0	57017.078	0.0
1103.4542	23.00	-4.44	14548.830	2.5	23608.800	1.5
1103.4993	27.00	-4.63	41982.660	1.5	51042.260	2.5
1103.5017	15.00	-.41	67113.820	2.5	76173.400	3.5
1103.5261	20.02	-2.55	350741.190	3.0	359800.570	3.0
1103.5323	22.00	-2.78	32857.721	3.0	41917.050	4.0
1103.5407	27.00	-2.67	43911.360	1.5	52970.620	2.5
1103.5663	29.01	.36	136919.350	3.0	145978.400	3.0
1103.5853	7.00	-3.08	107253.106	2.5	116312.000	1.5
1103.5998	10.00	-3.01	163012.621	1.0	172071.396	2.0
1103.6102	14.02	-2.27	244943.310	2.0	254002.000	1.0
1103.6284	22.01	-2.72	53121.480	.5	62180.020	1.5
1103.6357	28.01	-4.68	121692.550	4.5	130751.030	5.5
1103.6406	28.01	.19	121115.590	1.5	130174.030	1.5
1103.6455	30.02	-1.88	293768.600	1.0	302827.000	2.0
1103.6459	17.00	-1.81	91127.030	2.5	100185.426	2.5
1103.6576	17.01	-1.30	140740.000	1.0	149798.300	2.0
1103.6710	17.00	-2.35	91127.030	2.5	100185.220	1.5
1103.7210	10.02	-4.03	389139.050	3.0	398196.830	2.0
1103.7902	7.00	-3.02	107182.788	1.5	116240.000	1.5
1103.7902	7.00	-3.20	107182.788	1.5	116240.000	2.5
1103.8252	26.00	-4.22	44511.795	2.0	53568.720	2.0
1103.8919	7.00	-3.16	107445.622	1.5	116502.000	.5
1103.9514	28.01	-1.81	122047.290	3.5	131103.180	2.5
1104.0404	14.00	-1.62	50054.800	4.0	59109.959	3.0
1104.1318	23.00	-3.62	28368.760	1.5	37423.170	1.5
1104.1891	28.00	-3.18	46522.965	2.0	55576.905	3.0
1104.2036	18.00	-4.73	116999.389	2.0	126053.210	2.0
1104.2489	28.01	1.10	119773.600	6.5	128827.050	7.5
1104.2500	22.00	-4.86	33980.639	2.0	43034.080	1.0
1104.2511	8.00	-2.86	99680.968	1.0	108734.400	1.0
1104.2511	8.00	-2.38	99680.968	1.0	108734.400	2.0
1104.2610	8.00	-4.04	99681.049	2.0	108734.400	1.0
1104.2610	8.00	-2.86	99681.049	2.0	108734.400	2.0
1104.2610	8.00	-2.11	99681.049	2.0	108734.400	3.0
1104.2927	8.00	-2.73	99681.309	0.0	108734.400	1.0
1104.3111	18.00	-3.54	112138.980	2.0	121191.920	2.0
1104.3964	10.00	-1.95	159534.620	1.0	168586.860	0.0
1104.4013	7.00	-2.16	106477.800	.5	115530.000	.5
1104.4013	7.00	-3.64	106477.800	.5	115530.000	1.5
1104.4387	7.00	-2.64	107253.106	2.5	116305.000	1.5
1104.4441	22.01	-3.18	53128.170	1.5	62180.020	1.5
1104.4673	24.00	-2.19	24286.540	1.0	33338.200	0.0
1104.4807	7.01	-.25	197858.690	1.0	206910.240	0.0
1104.4949	18.00	-4.12	117151.387	1.0	126202.820	0.0
1104.5000	2.00	-.78	186210.000	0.0	195263.871	0.0
1104.5580	26.00	-2.46	45061.287	3.0	54112.203	2.0
1104.6528	25.00	-3.81	48168.010	4.5	57218.150	3.5
1104.6918	23.01	-2.45	64229.100	5.0	73278.920	4.0
1104.7602	28.01	-4.63	107142.210	1.5	116191.470	2.5
1104.8139	24.00	-3.98	44068.720	3.0	53117.540	4.0
1104.8176	28.01	.01	122084.790	1.5	131133.580	2.5
1104.8249	27.00	-2.57	43921.890	2.5	52970.620	2.5
1104.8285	29.01	-3.42	141733.900	2.0	150782.600	2.0
1104.8859	24.00	-3.55	35618.510	1.0	44666.740	1.0
1104.8896	8.01	-3.38	265691.000	3.5	274739.200	2.5
1104.9690	6.00	-3.60	78293.490	1.0	87341.040	0.0
1104.9720	10.00	-1.43	158601.115	2.0	167648.640	2.0
1105.0740	27.00	-4.02	45111.480	4.5	54158.170	4.5
1105.0936	26.01	.04	78525.270	2.5	87571.800	2.5
1105.1338	7.00	-2.83	106477.800	.5	115524.000	.5
1105.1338	7.00	-2.54	106477.800	.5	115524.000	1.5
1105.1449	27.00	-4.40	44658.030	1.5	53704.140	2.5
1105.1571	28.01	.86	122047.290	3.5	131093.300	4.5
1105.1608	28.00	-4.59	50142.800	3.0	59188.780	3.0
1105.2353	28.00	-3.48	49403.420	1.0	58448.790	0.0
1105.2357	26.00	-3.79	47377.909	4.0	56423.276	4.0
1105.2451	27.00	-4.81	45904.680	1.5	54949.970	1.5
1105.2561	29.01	-3.34	114511.440	1.0	123556.640	2.0
1105.3037	28.01	-.70	119773.600	6.5	128818.410	6.5
1105.3049	13.01	-1.79	133914.100	2.0	142958.900	1.0
1105.3612	26.01	-4.80	54904.500	3.5	63948.840	4.5
1105.4052	22.00	-3.30	33680.130	3.0	42724.110	2.0
1105.4284	18.01	-1.29	187589.230	2.5	196633.020	2.5
1105.5274	17.00	-1.32	91127.030	2.5	100170.010	2.5
1105.5481	17.00	-1.01	91127.030	2.5	100169.840	3.5
1105.5482	26.01	-3.84	60384.460	.5	69427.270	.5
1105.5677	25.00	-4.24	51718.220	1.5	60760.870	1.5
1105.5781	10.00	-2.46	163038.351	2.0	172080.916	1.0
1105.6203	27.00	-4.83	45904.680	1.5	54946.900	2.5
1105.6729	6.00	-2.01	69689.480	1.0	78731.270	1.0
1105.7306	22.00	-2.80	25493.722	2.0	34535.040	2.0
1105.7707	23.00	-3.53	28462.150	2.5	37503.140	2.5
1105.7756	26.00	-2.18	38995.717	1.0	48036.667	2.0
1105.7819	9.00	-1.11	119081.820	.5	128122.719	1.5
1105.8257	7.00	-2.19	106814.459	2.5	115855.000	1.5
1105.8257	7.00	-2.77	106814.459	2.5	115855.000	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1105.8343	24.00	-3.36	33113.270	4.0	42153.740	5.0
1105.8629	14.00	-1.64	54185.264	1.0	63225.500	2.0
1105.8771	25.00	-2.15	59652.900	5.5	68693.020	5.5
1105.8798	22.00	-3.92	27025.652	4.0	36065.750	3.0
1105.9787	18.01	-1.11	190942.650	.5	199981.940	1.5
1105.9913	17.00	-.75	91127.030	2.5	100166.217	3.5
1106.0433	26.00	-2.80	44022.518	4.0	53061.280	5.0
1106.0472	22.00	-3.94	39686.100	2.0	48724.830	1.0
1106.0820	10.00	-2.25	158601.115	2.0	167639.561	1.0
1106.1072	22.00	-2.80	39686.100	2.0	48724.340	2.0
1106.1283	26.00	-3.21	44243.668	5.0	53281.735	5.0
1106.2062	26.00	-4.10	42532.729	3.0	51570.160	3.0
1106.2063	28.01	-4.77	118294.170	3.5	127331.600	2.5
1106.2137	28.01	-4.88	113753.040	4.5	122790.410	4.5
1106.2724	28.01	-.95	119833.000	5.5	128869.890	5.5
1106.2810	28.01	-2.85	105838.060	3.5	114874.880	2.5
1106.3163	7.00	-.91	107588.469	.5	116625.000	1.5
1106.3353	22.00	-3.59	28788.372	4.0	37824.748	4.0
1106.3814	8.01	-3.59	250251.000	.5	259287.000	1.5
1106.3814	8.01	-4.35	250251.000	1.5	259287.000	1.5
1106.3851	28.01	-3.87	121111.900	.5	130147.870	.5
1106.4389	28.01	-.88	121190.340	4.5	130225.870	3.5
1106.4794	8.01	-3.31	250251.000	1.5	259286.200	2.5
1106.5038	29.01	-1.21	138981.300	2.0	148016.300	1.0
1106.5075	22.00	-3.63	38159.710	3.0	47194.680	4.0
1106.5100	28.01	-.92	121180.550	5.5	130215.500	4.5
1106.5394	25.00	-4.00	48270.910	2.5	57305.620	3.5
1106.5516	24.00	-4.90	46174.400	3.0	55209.010	4.0
1106.5785	27.00	-3.22	43425.710	2.5	52460.100	2.5
1106.6018	8.01	-1.75	265705.000	2.5	274739.200	2.5
1106.6324	7.01	-3.78	205350.180	2.0	214384.130	2.0
1106.6630	7.01	-.25	220716.000	3.0	229749.700	4.0
1106.7041	7.00	-2.86	106868.635	3.5	115902.000	3.5
1106.7106	28.00	-1.64	47139.392	2.0	56172.704	3.0
1106.7157	28.01	-3.97	103653.030	3.5	112686.300	2.5
1106.7243	24.00	-1.68	35501.260	3.0	44534.460	4.0
1106.7433	10.00	-2.18	163038.351	2.0	172071.396	2.0
1106.7611	7.01	-3.60	220716.000	3.0	229748.900	3.0
1106.7917	18.01	.18	187589.230	2.5	196621.880	3.5
1106.8233	22.00	-4.49	37617.868	4.0	46650.260	3.0
1106.8287	26.00	-4.88	26224.961	3.0	35257.309	4.0
1106.8370	28.01	.14	121115.590	1.5	130147.870	.5
1106.8444	18.01	-.10	190106.230	1.5	199138.450	1.5
1106.8454	28.00	-2.96	48735.308	2.0	57767.520	1.0
1107.0000	6.00	-2.18	78731.270	1.0	87762.220	2.0
1107.0687	24.00	-2.41	46174.400	3.0	55204.790	3.0
1107.1524	22.00	-4.31	39077.713	1.0	48107.420	2.0
1107.1734	26.00	-4.63	24772.019	1.0	33801.555	2.0
1107.1790	28.01	-1.13	119833.000	5.5	128862.490	4.5
1107.2269	17.00	-2.48	91173.510	1.5	100202.610	1.5
1107.2588	17.00	-2.03	91173.510	1.5	100202.350	.5
1107.2612	21.00	-4.76	33056.190	3.5	42085.010	4.5
1107.3132	28.00	-2.86	48715.200	4.0	57743.596	3.0
1107.3720	18.00	-4.06	117183.654	2.0	126211.570	1.0
1107.3837	26.00	-4.01	47755.485	3.0	56783.306	3.0
1107.4002	22.00	-3.28	37622.573	3.0	46650.260	3.0
1107.4181	7.00	-3.18	106814.459	2.5	115842.000	1.5
1107.5518	18.00	-2.91	112138.980	2.0	121165.431	3.0
1107.5642	28.01	-1.09	121180.550	5.5	130206.900	4.5
1107.5664	8.00	-2.50	99680.968	1.0	108707.300	1.0
1107.5764	8.00	-2.28	99681.049	2.0	108707.300	1.0
1107.6010	24.00	-3.75	35640.690	0.0	44666.740	1.0
1107.6083	8.00	-2.98	99681.309	0.0	108707.300	1.0
1107.6476	28.01	-3.83	104147.290	5.5	113172.960	4.5
1107.7102	28.01	-.66	121190.340	4.5	130215.500	4.5
1107.7164	23.00	-7.19	14910.040	3.5	23935.150	2.5
1107.7213	28.01	.25	121180.550	5.5	130205.620	5.5
1107.7471	23.01	-2.72	63657.200	2.0	72682.060	2.0
1107.8104	26.00	-4.92	36940.600	2.0	45964.944	2.0
1107.8305	22.00	-4.10	17540.205	3.0	26564.385	3.0
1107.8367	25.00	-1.63	47466.660	1.5	56490.790	2.5
1107.8784	9.02	-4.92	457959.070	3.5	466982.860	2.5
1107.8864	18.00	-.65	105617.315	2.0	114641.040	2.0
1107.9127	22.00	-4.64	28828.510	2.0	37852.021	1.0
1108.0147	29.01	-1.58	137913.800	1.0	146936.480	2.0
1108.0245	28.01	-.19	119833.000	5.5	128855.600	6.5
1108.0970	23.00	-3.35	33155.300	4.5	42177.310	4.5
1108.1510	28.01	-4.33	129474.270	3.5	138495.840	4.5
1108.1547	27.00	-3.56	43242.950	2.5	52264.490	1.5
1108.1719	8.01	-.39	265761.000	4.5	274782.400	3.5
1108.2088	20.02	-2.51	350779.470	3.0	359800.570	3.0
1108.2094	22.00	-3.75	28638.832	2.0	37659.927	3.0
1108.2321	28.01	-.50	119833.000	5.5	128853.910	4.5
1108.2690	6.00	-3.02	69710.660	2.0	78731.270	1.0
1108.2850	17.00	-.92	83130.900	1.5	92151.380	.5
1108.2936	14.00	-1.06	54205.090	2.0	63225.500	2.0
1108.2985	24.00	-4.75	45966.450	2.0	54986.820	3.0
1108.2997	15.00	-.38	66813.040	1.5	75833.400	2.5
1108.3194	15.01	.80	130020.400	3.0	139040.600	4.0
1108.3587	18.01	-.51	191012.350	1.5	200032.230	1.5
1108.4177	8.01	-3.88	265763.000	3.5	274782.400	3.5
1108.4238	24.00	-4.06	48331.300	1.0	57350.650	2.0
1108.4263	23.00	-3.54	28595.640	3.5	37614.970	3.5
1108.4434	6.00	-4.03	78199.070	2.0	87218.260	2.0
1108.4582	24.00	-4.93	33060.740	3.0	42079.810	4.0
1108.4766	10.01	-3.38	303824.230	3.5	312843.150	2.5
1108.5221	28.01	-3.53	121190.340	4.5	130208.890	3.5
1108.5319	10.01	-4.35	303824.680	2.5	312843.150	2.5
1108.5369	27.00	-4.64	45971.190	3.5	54989.620	3.5
1108.5405	10.01	-3.52	303824.680	2.5	312843.080	1.5
1108.5418	28.01	.37	122084.790	1.5	131103.180	2.5
1108.5448	7.00	-1.96	106868.635	3.5	115887.000	3.5
1108.5602	25.00	-2.11	57485.970	2.5	66504.210	1.5
1108.6155	18.01	-1.73	190507.360	1.5	199525.150	1.5
1108.6641	26.00	-2.46	44551.325	3.0	53568.720	2.0
1108.7028	23.01	-2.88	63657.200	2.0	72674.280	2.0
1108.7373	28.01	-4.73	120281.110	4.5	129297.910	3.5
1108.7397	28.01	-3.90	118314.820	2.5	127331.600	2.5
1108.7619	18.01	-.79	200234.860	2.5	209251.460	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1108.7668	28.01	.11	121190.340	4.5	130206.900	4.5
1108.7695	26.00	-4.40	45220.662	3.0	54237.200	4.0
1108.7755	26.00	-4.97	18378.187	2.0	27394.676	3.0
1108.7828	27.00	-3.74	43847.980	3.5	52864.410	4.5
1108.8516	56.01	-.16	61636.000	0.0	70654.339	0.0
1108.8596	28.00	-1.61	33590.159	4.0	42605.964	3.0
1108.9242	28.01	-.68	121190.340	4.5	130205.620	5.5
1108.9783	23.01	-4.43	64130.840	4.0	73145.680	3.0
1109.0682	18.00	-4.47	115366.900	1.0	124381.010	2.0
1109.0866	18.01	-2.33	190511.190	2.5	199525.150	1.5
1109.1198	28.01	-3.26	105861.190	2.5	114874.880	2.5
1109.1199	18.01	.02	200234.860	2.5	209248.550	2.5
1109.1626	22.00	-3.27	37824.748	4.0	46838.090	4.0
1109.1863	27.00	-1.22	36092.440	2.5	45105.590	3.5
1109.1892	8.00	-2.27	99092.980	1.0	108106.106	0.0
1109.1895	8.00	-1.92	99092.980	1.0	108106.103	1.0
1109.1903	8.00	-2.03	99092.980	1.0	108106.097	2.0
1109.2724	8.00	-2.40	99093.653	2.0	108106.103	1.0
1109.2731	8.00	-1.81	99093.653	2.0	108106.097	2.0
1109.2741	8.00	-1.60	99093.653	2.0	108106.089	3.0
1109.3381	17.00	-1.85	91173.510	1.5	100185.426	2.5
1109.3635	17.00	-1.12	91173.510	1.5	100185.220	1.5
1109.3734	26.01	.31	78525.270	2.5	87536.900	3.5
1109.4204	8.00	-2.75	99094.849	3.0	108106.097	2.0
1109.4214	8.00	-1.90	99094.849	3.0	108106.089	3.0
1109.4220	8.00	-1.32	99094.849	3.0	108106.084	4.0
1109.5002	15.01	-.74	130913.700	3.0	139924.300	2.0
1109.5248	15.00	-.91	64239.500	.5	73249.900	1.5
1109.5559	22.00	-2.10	25317.813	1.0	34327.960	1.0
1109.6331	7.00	-3.43	106980.480	.5	115990.000	.5
1109.6331	7.00	-3.09	106980.480	.5	115990.000	1.5
1109.6430	23.00	-4.20	33155.300	4.5	42164.740	3.5
1109.6692	17.00	-.90	83130.900	1.5	92140.127	1.5
1109.7092	22.00	-3.62	39715.437	3.0	48724.340	2.0
1109.7342	27.00	-2.72	43847.980	3.5	52856.680	3.5
1109.7849	28.00	-4.08	48735.308	2.0	57743.596	3.0
1109.7970	24.00	-3.36	45966.450	2.0	54974.640	2.0
1109.8019	29.01	-.38	136919.350	3.0	145927.500	2.0
1109.8857	24.00	-4.69	36558.550	2.0	45566.020	3.0
1109.9116	28.01	1.04	121180.550	5.5	130187.810	6.5
1109.9351	20.00	-3.84	36731.615	1.0	45738.684	1.0
1109.9781	23.01	-3.91	64287.100	5.0	73293.820	5.0
1110.0176	29.01	-.04	138981.300	2.0	147987.700	2.0
1110.0398	23.00	-4.33	28368.760	1.5	37374.980	.5
1110.0799	7.00	-4.57	107253.106	2.5	116259.000	1.5
1110.0799	7.00	-2.47	107253.106	2.5	116259.000	2.5
1110.1655	7.00	-2.90	106477.800	.5	115483.000	.5
1110.1655	7.00	-3.20	106477.800	.5	115483.000	1.5
1110.1679	24.00	-4.57	44068.720	3.0	53073.900	3.0
1110.1753	23.00	-3.25	17116.920	3.5	26122.040	3.5
1110.1828	7.01	-2.36	211490.300	2.0	220495.360	2.0
1110.2203	26.00	-4.91	47377.909	4.0	56382.664	5.0
1110.2444	27.00	-2.48	43911.360	1.5	52915.920	.5
1110.2741	26.00	-4.82	43210.011	2.0	52214.330	1.0
1110.2999	28.01	.40	119833.000	5.5	128837.110	5.5
1110.3060	28.01	-.66	121180.550	5.5	130184.610	5.5
1110.4368	29.01	-2.34	137212.700	1.0	146215.700	1.0
1110.4676	6.00	-3.94	78215.510	3.0	87218.260	2.0
1110.5182	22.00	-4.57	34078.580	3.0	43080.920	2.0
1110.5355	7.00	-3.24	106477.800	.5	115480.000	.5
1110.5355	7.00	-2.63	106477.800	.5	115480.000	1.5
1110.6280	27.00	-1.91	36875.130	1.5	45876.580	2.5
1110.6477	18.00	-3.83	113716.610	3.0	122717.900	3.0
1110.6477	18.00	-.25	113716.610	3.0	122717.900	4.0
1110.6934	27.00	-3.15	43263.570	1.5	52264.490	1.5
1110.7131	6.00	-1.88	78340.280	1.0	87341.040	0.0
1110.7316	10.01	-3.44	303824.230	3.5	312824.840	2.5
1110.7341	28.01	-1.77	108763.320	.5	117763.910	1.5
1110.7341	10.01	-2.08	303824.230	3.5	312824.820	3.5
1110.7378	15.00	-2.26	66813.040	1.5	75813.600	.5
1110.7687	23.00	-1.20	20202.490	2.5	29202.800	1.5
1110.7687	27.00	-3.28	45904.680	1.5	54904.990	2.5
1110.7872	10.01	-2.17	303824.680	2.5	312824.840	2.5
1110.7896	10.01	-2.84	303824.680	2.5	312824.820	3.5
1110.8415	28.01	-.04	121227.800	2.5	130227.520	2.5
1110.9304	23.01	-2.48	30613.970	4.0	39612.970	5.0
1110.9711	28.01	-4.37	129842.330	2.5	138841.000	3.5
1110.9785	27.00	-3.00	42269.320	4.5	51267.930	4.5
1110.9834	28.01	-3.84	105838.060	3.5	114836.630	3.5
1110.9970	24.00	-2.75	48558.570	2.0	57557.030	3.0
1111.0365	6.00	-2.66	78104.980	0.0	87103.120	1.0
1111.0452	28.01	.21	121227.800	2.5	130225.870	3.5
1111.0830	22.00	-2.91	25537.276	1.0	34535.040	2.0
1111.2123	7.00	-3.69	107628.283	1.5	116625.000	1.5
1111.2123	7.00	-.62	107628.283	1.5	116625.000	2.5
1111.2144	25.02	-4.90	124754.800	3.5	133751.500	3.5
1111.2391	17.00	-.77	91173.510	1.5	100170.010	2.5
1111.2428	6.00	-2.36	78116.740	1.0	87113.210	2.0
1111.3058	18.01	-3.50	196305.040	3.5	205301.000	2.5
1111.3469	22.00	-4.12	18911.399	2.0	27907.026	2.0
1111.3638	22.00	-4.62	37654.770	2.0	46650.260	3.0
1111.3776	7.00	-2.81	107445.622	1.5	116441.000	.5
1111.3776	7.00	-2.11	107445.622	1.5	116441.000	1.5
1111.3776	7.00	-2.20	107445.622	1.5	116441.000	2.5
1111.3910	24.00	-2.66	37883.340	2.0	46878.610	3.0
1111.3934	20.02	-2.71	350805.320	4.0	359800.570	3.0
1111.4155	26.00	-4.78	48702.518	4.0	57697.590	4.0
1111.4184	28.00	-1.86	33610.916	2.0	42605.964	3.0
1111.4219	27.00	-4.82	46454.950	1.5	55449.970	2.5
1111.4283	7.00	-3.05	106996.032	1.5	115991.000	2.5
1111.4614	28.01	-2.77	107737.810	1.5	116732.510	2.5
1111.4791	26.00	-2.78	44551.325	3.0	53545.882	3.0
1111.4825	29.01	-.76	137034.970	3.0	146029.500	4.0
1111.5121	26.00	-3.79	44166.240	3.0	53160.530	3.0
1111.5146	28.01	.95	121190.340	4.5	130184.610	5.5
1111.5519	7.00	-2.63	106996.032	1.5	115990.000	.5
1111.5519	7.00	-2.49	106996.032	1.5	115990.000	1.5
1111.5519	7.00	-2.75	106996.032	1.5	115990.000	2.5
1111.5949	23.01	-2.50	64229.100	5.0	73222.720	4.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1111.6716	24.00	-4.16	44080.900	2.0	53073.900	3.0
1111.7111	27.00	-4.52	45957.290	.5	54949.970	1.5
1111.7210	28.01	-3.67	129503.240	4.5	138495.840	4.5
1111.7296	7.00	-2.35	107588.469	.5	116581.000	.5
1111.7296	7.00	-3.78	107588.469	.5	116581.000	1.5
1111.7309	7.00	-3.37	106980.480	.5	115973.000	1.5
1111.7507	28.01	-2.08	106007.890	2.5	115000.250	3.5
1111.7519	8.01	-.72	245902.850	2.5	254895.200	1.5
1111.7519	8.01	-.11	245902.850	2.5	254895.200	2.5
1111.7951	8.01	-.67	265928.000	1.5	274920.000	1.5
1111.7951	8.01	-1.63	265928.000	1.5	274920.000	2.5
1111.8075	8.02	-2.29	356732.000	0.0	365723.900	1.0
1111.8088	29.01	-4.90	116576.810	0.0	125568.700	1.0
1111.8115	18.00	-3.22	113643.260	1.0	122635.128	2.0
1111.8174	23.01	-4.04	64287.100	5.0	73278.920	4.0
1111.8483	18.00	-2.72	113716.610	3.0	122708.180	2.0
1111.8780	18.00	-.95	113716.610	3.0	122707.940	3.0
1111.9201	28.01	-.18	122084.790	1.5	131075.780	1.5
1111.9263	16.01	-1.98	119242.130	1.5	128233.070	2.5
1111.9809	26.00	-2.70	22946.810	1.0	31937.308	1.0
1111.9958	7.00	-3.14	107445.622	1.5	116436.000	1.5
1111.9958	7.00	-3.80	107445.622	1.5	116436.000	2.5
1111.9980	6.00	-2.97	80782.510	1.0	89772.870	2.0
1112.0280	10.00	-1.74	158601.115	2.0	167591.233	2.0
1112.0450	23.00	-3.30	17181.980	4.5	26171.960	4.5
1112.0499	23.00	-3.71	28768.130	4.5	37758.070	4.5
1112.0636	18.00	-4.94	115366.900	1.0	124356.730	2.0
1112.0871	21.01	-3.88	55715.520	1.0	64705.160	2.0
1112.1403	23.00	-4.80	21646.390	3.5	30635.600	2.5
1112.1625	29.01	.73	137034.970	3.0	146024.000	4.0
1112.1798	26.00	-3.93	44166.240	3.0	53155.130	4.0
1112.2170	28.01	-.24	122144.990	2.5	131133.580	2.5
1112.2359	26.00	-3.27	43079.013	1.0	52067.450	2.0
1112.2838	29.01	.83	137044.450	4.0	146032.500	5.0
1112.3027	17.00	-1.40	82918.893	2.5	91906.790	2.5
1112.3046	26.00	-4.77	26623.726	2.0	35611.608	3.0
1112.3618	10.01	-2.69	303824.230	3.5	312811.650	3.5
1112.3618	10.01	-1.64	303824.230	3.5	312811.650	4.5
1112.4175	10.01	-1.51	303824.680	2.5	312811.650	3.5
1112.4269	7.00	-3.31	107253.106	2.5	116240.000	1.5
1112.4269	7.00	-2.76	107253.106	2.5	116240.000	2.5
1112.4311	28.01	-2.97	106133.140	1.5	115120.000	2.5
1112.4397	27.00	-4.57	46002.830	2.5	54989.620	3.5
1112.4608	28.01	-.67	121240.900	3.5	130227.520	2.5
1112.4719	29.01	.21	137034.970	3.0	146021.500	3.0
1112.4806	24.00	-4.40	46000.360	3.0	54986.820	3.0
1112.4830	10.01	-1.75	303824.230	3.5	312810.670	4.5
1112.4904	6.00	-2.89	78116.740	1.0	87103.120	1.0
1112.4923	7.00	-2.12	106868.635	3.5	115855.000	2.5
1112.5103	26.01	-3.69	60441.050	1.5	69427.270	.5
1112.5252	29.01	.76	139119.500	3.0	148105.600	4.0
1112.6007	18.01	-2.20	196315.510	2.5	205301.000	2.5
1112.6106	28.01	.98	119833.000	5.5	128818.410	6.5
1112.6180	10.01	.03	294086.490	1.5	303071.840	2.5
1112.6180	18.01	-3.53	196315.510	2.5	205300.860	1.5
1112.6366	17.01	-2.35	131754.800	1.0	140740.000	1.0
1112.6552	29.01	.34	137044.450	4.0	146029.500	4.0
1112.6651	28.01	.18	121240.900	3.5	130225.870	3.5
1112.7357	56.01	-1.13	61636.000	0.0	70622.860	0.0
1112.7505	25.00	-2.77	59731.940	4.5	68716.220	4.5
1112.7542	28.01	-1.21	122140.710	4.5	131124.960	3.5
1112.7753	23.02	-4.64	152939.200	2.5	161923.280	2.5
1112.7857	26.00	-4.56	26627.612	4.0	35611.608	3.0
1112.8224	29.01	-.70	139119.500	3.0	148103.200	3.0
1112.8669	17.00	-1.74	91906.790	2.5	100890.130	2.5
1112.8732	28.01	-3.25	122812.970	3.5	131796.260	2.5
1112.9010	17.00	-.51	91906.790	2.5	100889.855	3.5
1112.9214	15.01	.15	129570.400	1.0	138553.300	2.0
1113.0029	14.00	-.27	50054.800	4.0	59037.043	4.0
1113.0144	17.00	-1.00	92194.190	1.5	101176.340	2.5
1113.0181	18.01	-3.51	191169.520	1.5	200151.640	1.5
1113.0863	28.01	.97	122140.710	4.5	131122.280	5.5
1113.0962	28.01	-4.35	127219.970	3.5	136201.460	3.5
1113.1307	7.00	-4.55	107182.788	1.5	116164.000	.5
1113.1307	7.00	-2.88	107182.788	1.5	116164.000	1.5
1113.1307	7.00	-2.83	107182.788	1.5	116164.000	2.5
1113.1458	28.01	.27	121227.800	2.5	130208.890	3.5
1113.2288	28.01	.52	119889.470	5.5	128869.890	5.5
1113.2575	14.00	-1.83	50054.800	4.0	59034.988	3.0
1113.2660	24.01	-4.34	55081.700	1.5	64061.820	1.5
1113.2772	29.01	-1.98	135834.900	4.0	144814.930	3.0
1113.2846	28.01	.50	122144.990	2.5	131124.960	3.5
1113.3243	16.00	-.31	70163.700	1.0	79143.350	2.0
1113.3367	29.01	-1.19	137044.450	4.0	146024.000	4.0
1113.3776	27.00	-3.19	46186.410	1.5	55165.630	2.5
1113.3925	15.00	-3.83	66834.500	1.5	75813.600	.5
1113.3937	18.00	-.83	113716.610	3.0	122695.700	4.0
1113.3974	28.01	-4.06	122084.790	1.5	131063.850	.5
1113.4473	26.00	-2.82	44415.057	4.0	53393.715	4.0
1113.4499	10.00	-1.64	159379.993	0.0	168358.630	1.0
1113.5149	16.00	-1.04	70165.237	2.0	79143.350	2.0
1113.5149	16.00	-.14	70165.237	2.0	79143.350	3.0
1113.5748	6.00	-4.49	80801.270	2.0	89778.900	3.0
1113.5880	26.00	-3.39	42859.756	2.0	51837.279	3.0
1113.6281	8.01	-3.01	265762.000	1.5	274739.200	2.5
1113.6467	29.01	-1.35	137044.450	4.0	146021.500	3.0
1113.6569	7.00	-2.59	106996.032	1.5	115973.000	1.5
1113.7347	22.00	-4.37	18911.399	2.0	27887.740	3.0
1113.7507	7.00	-1.99	107182.788	1.5	116159.000	2.5
1113.7522	8.01	-.18	265763.000	3.5	274739.200	2.5
1113.8137	26.00	-3.23	45281.816	2.0	54257.520	2.0
1113.8369	10.00	-1.95	159379.993	0.0	168355.510	1.0
1113.8465	28.01	-3.24	105861.190	2.5	114836.630	3.5
1113.8614	24.00	-3.78	35398.020	4.0	44373.340	3.0
1113.8688	28.00	-4.33	50142.800	3.0	59118.060	2.0
1113.9073	28.01	-2.13	106133.140	1.5	115108.090	2.5
1113.9384	13.01	-1.05	139242.900	3.0	148217.600	4.0
1113.9384	13.01	-.87	139242.900	3.0	148217.600	4.0
1113.9408	28.01	-2.23	128732.030	1.5	137706.710	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1113.9507	28.01	-.34	121240.900	3.5	130215.500	4.5
1113.9545	28.01	.08	122140.710	4.5	131115.280	4.5
1113.9905	24.00	-2.20	46000.360	3.0	54974.640	2.0
1114.0128	15.01	-1.86	130950.200	2.0	139924.300	2.0
1114.0813	10.00	-3.02	164285.882	0.0	173259.430	1.0
1114.0848	9.01	-2.60	280250.210	2.0	289223.730	1.0
1114.1096	28.01	-3.79	128803.230	2.5	137776.550	3.5
1114.1283	16.01	-.39	156029.280	1.5	165002.450	1.5
1114.1469	28.01	-.84	119889.470	5.5	128862.490	4.5
1114.1556	25.00	-4.12	51787.920	.5	60760.870	1.5
1114.1643	26.00	-3.34	36940.600	2.0	45913.480	3.0
1114.1742	28.01	-4.40	112719.750	3.5	121692.550	4.5
1114.1991	17.01	-2.26	131767.400	0.0	140740.000	1.0
1114.2102	29.01	-.81	137913.800	1.0	146886.310	1.0
1114.2326	23.01	-2.49	63816.900	3.0	72789.230	3.0
1114.2473	7.00	-4.27	107182.788	1.5	116155.000	.5
1114.2473	7.00	-3.20	107182.788	1.5	116155.000	1.5
1114.2686	25.00	-4.76	41932.640	3.5	50904.680	2.5
1114.2736	17.01	-2.75	131768.000	2.0	140740.000	1.0
1114.2823	6.00	-2.90	80801.270	2.0	89773.200	3.0
1114.3020	10.00	-.21	149824.221	2.0	158795.992	1.0
1114.3216	10.00	-2.75	162517.872	1.0	171489.485	1.0
1114.3232	6.00	-2.45	80801.270	2.0	89772.870	2.0
1114.3494	28.00	-1.95	40361.254	3.0	49332.643	4.0
1114.4217	26.00	-4.20	43079.013	1.0	52049.820	2.0
1114.4797	16.00	-1.04	70173.010	3.0	79143.350	3.0
1114.4797	16.00	.02	70173.010	3.0	79143.350	4.0
1114.4797	16.00	-2.59	70173.010	3.0	79143.350	2.0
1114.4970	28.00	-1.25	45281.152	3.0	54251.353	3.0
1114.5227	22.00	-4.39	28882.440	3.0	37852.434	4.0
1114.5481	18.00	-2.19	113716.610	3.0	122686.400	2.0
1114.5730	18.01	-1.41	191012.350	1.5	199981.940	1.5
1114.5928	28.01	-.70	121227.800	2.5	130197.230	1.5
1114.6040	23.01	-3.57	63548.500	1.0	72517.840	1.0
1114.7059	24.00	-4.40	37205.880	3.0	46174.400	3.0
1114.7333	25.00	-3.39	57485.970	2.5	66454.270	3.5
1114.7718	28.01	.17	121240.900	3.5	130208.890	3.5
1114.7807	14.00	-1.97	54257.582	3.0	63225.500	2.0
1114.9273	26.00	-3.76	22838.320	2.0	31805.059	3.0
1114.9457	28.00	-2.68	40361.254	3.0	49327.845	2.0
1114.9459	23.01	-2.46	30267.460	2.0	39234.050	3.0
1114.9521	24.00	-4.84	33113.270	4.0	42079.810	4.0
1114.9571	18.00	-3.93	113643.260	1.0	122609.760	1.0
1115.0031	28.01	.90	119889.470	5.5	128855.600	6.5
1115.0192	28.01	.65	121240.900	3.5	130206.900	4.5
1115.0502	26.00	-4.87	46410.366	1.0	55376.117	1.0
1115.1286	6.00	-1.93	78148.090	2.0	87113.210	2.0
1115.1729	17.00	-1.39	91906.790	2.5	100871.554	3.5
1115.2132	6.00	-3.80	88913.560	2.0	97878.000	2.0
1115.2133	28.01	-.34	119889.470	5.5	128853.910	4.5
1115.2941	18.01	-4.52	199959.620	2.5	208923.410	2.5
1115.4123	28.01	-.23	122112.940	.5	131075.780	1.5
1115.4273	28.01	-3.71	92792.080	3.5	101754.600	2.5
1115.4310	6.00	-2.32	80562.850	1.0	89525.540	1.0
1115.4567	20.00	-2.82	37298.287	2.0	46260.770	2.0
1115.4610	28.00	-2.58	48715.200	4.0	57677.649	5.0
1115.4708	27.00	-3.44	43199.650	2.5	52162.020	3.5
1115.4795	13.01	-1.11	139786.800	2.0	148249.100	3.0
1115.6289	29.01	.59	139142.100	2.0	148103.200	3.0
1115.6314	25.00	-2.24	59731.940	4.5	68693.020	5.5
1115.6389	23.00	-4.30	28462.150	2.5	37423.170	1.5
1115.6887	6.00	-2.64	78116.740	1.0	87077.360	0.0
1115.7074	24.00	-2.20	27935.260	4.0	36895.730	3.0
1115.7543	20.00	-2.34	37298.287	2.0	46258.380	1.0
1115.8219	6.00	-4.31	80562.850	1.0	89522.400	2.0
1115.8431	21.00	-2.67	33056.190	3.5	42015.570	3.5
1115.8867	17.00	-3.92	91906.790	2.5	100865.820	2.5
1115.8904	8.01	-2.29	265961.000	2.5	274920.000	1.5
1115.8904	8.01	-.57	265961.000	2.5	274920.000	2.5
1115.9066	23.00	-4.74	33155.300	4.5	42114.170	3.5
1115.9411	26.00	-4.49	39969.830	3.0	48928.423	2.0
1115.9440	17.00	-4.26	91906.790	2.5	100865.360	1.5
1115.9913	28.01	-.24	122144.990	2.5	131103.180	2.5
1115.9951	28.01	.08	122175.420	2.5	131133.580	2.5
1116.0113	18.00	-4.40	113643.260	1.0	122601.290	1.0
1116.0219	10.00	-1.12	158601.115	2.0	167559.060	3.0
1116.0399	15.00	-3.49	57876.700	.5	66834.500	1.5
1116.1040	26.00	-4.81	45726.104	5.0	54683.390	4.0
1116.1198	22.00	-3.71	28702.768	3.0	37659.927	3.0
1116.1234	18.01	-.91	186340.480	1.5	195297.610	1.5
1116.1682	18.01	-3.74	186074.350	2.5	195031.120	2.5
1116.1869	24.00	-4.56	44080.900	2.0	53037.520	2.0
1116.1907	28.01	.14	121227.800	2.5	130184.390	2.5
1116.1944	28.01	.18	119913.330	4.5	128869.890	5.5
1116.2356	28.01	-1.85	109675.720	.5	118631.950	.5
1116.2662	28.00	-2.47	45281.152	3.0	54237.136	4.0
1116.2982	22.00	-3.88	33655.853	2.0	42611.580	1.0
1116.3253	25.00	-.76	52758.110	4.5	61713.620	5.5
1116.3339	10.00	-2.06	162517.872	1.0	171473.313	2.0
1116.3403	29.01	-1.95	110084.290	1.0	119039.680	2.0
1116.3452	28.01	-3.60	128827.150	3.5	137782.500	4.5
1116.3851	6.00	-2.31	78148.090	2.0	87103.120	1.0
1116.4724	16.01	-1.43	155818.370	2.5	164772.700	3.5
1116.5222	7.00	-4.22	107037.069	2.5	115991.000	2.5
1116.5547	28.01	-.91	119913.330	4.5	128867.000	3.5
1116.5959	28.00	-4.26	50039.180	2.0	58992.520	2.0
1116.6468	7.00	-2.40	107037.069	2.5	115990.000	1.5
1116.6468	7.00	-1.90	107037.069	2.5	115990.000	2.5
1116.6735	7.00	-2.66	107628.283	1.5	116581.000	.5
1116.6735	7.00	-2.83	107628.283	1.5	116581.000	2.5
1116.6757	24.00	-4.51	45719.200	1.0	54671.900	1.0
1116.6885	28.00	-3.61	40361.254	3.0	49313.851	3.0
1116.6894	28.01	-.64	122140.710	4.5	131093.300	4.5
1116.7630	15.01	-.50	129570.400	1.0	138522.400	1.0
1116.8990	28.01	.04	122112.940	.5	131063.850	.5
1116.9589	29.01	-.73	137034.970	3.0	145985.400	2.0
1117.0700	28.01	.13	122175.420	2.5	131124.960	3.5
1117.0725	6.00	-4.53	79310.850	2.0	88260.370	2.0
1117.0825	28.01	-4.60	99418.610	3.5	108368.050	2.5
1117.0874	28.01	-3.59	128827.150	3.5	137776.550	3.5
1117.0937	23.00	-3.21	17054.870	2.5	26004.220	2.5
1117.1174	28.01	-.98	119913.330	4.5	128862.490	4.5
1117.1873	24.00	-4.38	44088.920	1.0	53037.520	2.0
1117.2934	29.01	.46	137073.750	2.0	146021.500	3.0
1117.3072	28.01	-1.47	119889.470	5.5	128837.110	5.5
1117.3146	6.00	-3.09	80562.850	1.0	89510.430	2.0
1117.3259	18.01	-.97	182222.030	1.5	191169.520	1.5
1117.3371	28.01	-3.84	106022.790	.5	114970.190	.5
1117.3534	18.01	-4.58	191012.350	1.5	199959.620	2.5
1117.4121	29.01	-1.23	139119.500	3.0	148066.300	2.0
1117.4468	22.00	-4.01	29818.310	3.0	38764.832	3.0
1117.4833	28.01	-.41	121227.800	2.5	130174.030	1.5
1117.5083	23.00	-3.35	29296.430	2.5	38242.460	3.5
1117.5537	28.00	-3.42	47328.850	2.0	56274.516	2.0
1117.5882	28.01	-2.16	128837.110	5.5	137782.500	4.5
1117.6382	18.01	-2.97	196305.040	3.5	205250.030	3.5
1117.6506	18.01	-3.37	196305.040	3.5	205249.930	2.5
1117.6556	18.01	-4.74	200393.020	4.5	209337.870	4.5
1117.6594	18.00	-3.95	115366.900	1.0	124311.720	1.0
1117.7431	28.01	-.04	119909.720	1.5	128853.870	2.5
1117.7528	10.00	.06	149657.042	3.0	158601.115	2.0
1117.7656	24.00	-2.79	48445.350	6.0	57389.320	6.0
1117.8203	26.00	-2.75	45061.287	3.0	54004.820	3.0
1117.8256	28.01	-.28	121240.900	3.5	130184.390	2.5
1117.8331	29.01	-1.30	137034.970	3.0	145978.400	3.0
1117.8444	18.01	-4.93	204937.800	4.5	213881.140	5.5
1117.8645	22.00	-4.43	34204.971	4.0	43148.150	3.0
1117.9480	22.00	-3.65	28596.293	1.0	37538.804	2.0
1117.9619	17.01	-1.10	141010.000	2.0	149952.400	1.0
1117.9757	18.01	-1.21	190196.160	.5	199138.450	1.5
1117.9869	29.01	.08	139119.500	3.0	148061.700	3.0
1118.0131	7.00	-1.54	94793.460	1.5	103735.450	2.5
1118.0631	6.00	-4.98	79318.780	1.0	88260.370	2.0
1118.0781	18.01	-1.05	199981.940	1.5	208923.410	2.5
1118.1104	7.00	-2.59	107182.788	1.5	116124.000	.5
1118.1104	7.00	-3.89	107182.788	1.5	116124.000	1.5
1118.1494	18.01	-1.98	186340.480	1.5	195281.380	.5
1118.1544	18.01	-1.04	191169.520	1.5	200110.380	.5
1118.1870	17.01	-1.43	161634.900	2.0	170575.500	3.0
1118.1895	28.01	.60	119913.330	4.5	128853.910	4.5
1118.1920	15.00	-4.11	67971.140	.5	76911.700	.5
1118.1970	26.00	-3.59	45220.662	3.0	54161.182	3.0
1118.2195	18.01	-1.98	204951.090	3.5	213891.430	2.5
1118.2445	18.01	-4.22	189654.780	2.5	198594.920	3.5
1118.2545	23.00	-2.16	17181.980	4.5	26122.040	3.5
1118.3409	15.00	.38	58174.450	1.5	67113.820	2.5
1118.3546	18.01	-.06	199981.940	1.5	208921.200	1.5
1118.3646	18.01	-2.31	190507.360	1.5	199446.540	.5
1118.3708	28.01	-4.53	120903.200	3.5	129842.330	2.5
1118.4259	28.00	-1.28	43258.792	4.0	52197.482	3.0
1118.4384	6.00	-2.16	80834.610	3.0	89773.200	3.0
1118.4659	16.01	-1.46	119294.700	2.5	128233.070	2.5
1118.4797	6.00	-3.07	80834.610	3.0	89772.870	2.0
1118.5323	26.00	-4.10	36975.640	3.0	45913.480	3.0
1118.5423	28.01	-3.94	122812.970	3.5	131750.730	3.5
1118.5648	24.00	-4.38	45734.320	2.0	54671.900	1.0
1118.5648	24.00	-4.86	48445.350	6.0	57382.930	5.0
1118.6029	26.00	-2.89	45333.834	2.0	54271.110	1.0
1118.7163	28.01	-1.83	128818.410	6.5	137754.780	5.5
1118.7201	15.00	.12	57876.700	.5	66813.040	1.5
1118.7588	14.00	.12	49850.830	2.0	58786.860	3.0
1118.7712	7.00	-3.07	107037.069	2.5	115973.000	1.5
1118.7913	18.01	-2.60	204937.800	4.5	213873.570	3.5
1118.8102	23.01	-3.93	64287.100	5.0	73222.720	4.0
1118.8263	28.00	-3.09	49032.589	2.0	57968.080	3.0
1118.8878	8.01	-.75	265985.000	3.5	274920.000	2.5
1118.9141	27.00	-2.66	43921.890	2.5	52856.680	3.5
1118.9153	27.00	-4.64	46454.950	1.5	55389.730	1.5
1118.9479	18.01	-1.52	196315.510	2.5	205250.030	3.5
1118.9592	27.00	-2.87	42269.320	4.5	51203.750	5.5
1119.0043	28.00	-2.38	47328.850	2.0	56262.920	3.0
1119.0193	29.01	-.55	137044.450	4.0	145978.400	3.0
1119.0206	11.00	-1.33	30266.990	.5	39200.930	1.5
1119.0381	27.00	-4.16	45971.190	3.5	54904.990	2.5
1119.0619	21.00	-2.73	33151.400	4.5	42085.010	4.5
1119.0970	27.00	-2.78	47612.180	1.5	56545.510	2.5
1119.2135	29.01	-.38	139710.200	2.0	148642.600	2.0
1119.2260	13.01	-.67	138518.700	2.0	147451.000	3.0
1119.2536	15.00	-1.29	67113.820	2.5	76045.900	2.5
1119.2636	8.01	-.49	265988.000	2.5	274920.000	1.5
1119.2636	8.01	-2.16	265988.000	2.5	274920.000	2.5
1119.2749	25.00	-2.53	59784.310	3.5	68716.220	4.5
1119.3431	14.00	-3.04	53387.334	1.0	62318.700	0.0
1119.3639	28.01	-1.45	121294.670	4.5	130225.870	3.5
1119.4140	17.01	-2.63	119799.000	2.0	128729.800	3.0
1119.4152	28.01	-1.51	122144.990	2.5	131075.780	1.5
1119.4466	29.01	-3.79	135952.550	2.0	144883.090	2.0
1119.4516	15.01	-1.20	130993.800	3.0	139924.300	2.0
1119.4817	27.00	-3.43	42269.320	4.5	51199.580	3.5
1119.4854	24.00	-3.03	37244.170	4.0	46174.400	3.0
1119.4905	28.01	-4.80	121800.340	1.5	130730.530	2.5
1119.5256	23.00	-1.95	17242.050	5.5	26171.960	4.5
1119.5363	18.00	-1.90	112138.980	2.0	121068.804	1.0
1119.6424	26.00	-2.45	42532.729	3.0	51461.707	4.0
1119.6472	28.01	.09	119889.470	5.5	128818.410	6.5
1119.6781	28.00	-2.23	22102.349	4.0	31031.042	3.0
1119.6790	22.00	-2.46	28896.062	5.0	37824.748	4.0
1119.6847	14.00	-2.86	50189.389	2.0	59118.030	3.0
1119.6873	24.00	-3.56	46058.200	4.0	54986.820	3.0
1119.6911	28.01	-3.97	128853.910	4.5	137782.500	4.5
1119.7124	8.00	-2.14	99092.980	1.0	108021.400	2.0
1119.7212	11.00	-1.07	30272.580	1.5	39200.930	2.5
1119.7212	11.00	-2.03	30272.580	1.5	39200.930	1.5
1119.7751	10.01	-3.04	313420.090	2.5	322348.010	3.5
1119.7902	13.01	-2.19	133435.000	2.0	142362.800	2.0
1119.7902	13.01	-1.46	133435.000	2.0	142362.800	1.0
1119.7902	13.01	-3.74	133435.000	2.0	142362.800	3.0
1119.7952	28.01	-.08	122175.420	2.5	131103.180	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1119.7968	8.00	-1.91	99093.653	2.0	108021.400	2.0
1119.8027	13.01	-1.43	133679.300	3.0	142607.000	2.0
1119.8090	23.01	-3.26	30306.400	3.0	39234.050	3.0
1119.8290	27.00	-2.11	43847.980	3.5	52775.470	4.5
1119.8528	15.01	-1.14	129626.000	1.0	138553.300	2.0
1119.8905	24.00	-4.40	45719.200	1.0	54646.200	0.0
1119.9256	28.01	-2.60	128827.150	3.5	137753.870	4.5
1119.9468	8.00	-1.77	99094.849	3.0	108021.400	2.0
1119.9670	24.00	-4.65	44591.460	5.0	53517.850	6.0
1119.9909	29.01	-1.48	137649.100	2.0	146575.300	2.0
1120.0059	18.01	-.70	201608.820	3.5	210534.900	4.5
1120.0411	28.01	-3.70	118294.170	3.5	127219.970	3.5
1120.0448	24.00	-2.48	48661.590	3.0	57587.360	4.0
1120.0734	26.00	-2.11	44243.668	5.0	53169.210	6.0
1120.0832	26.00	-4.75	25091.620	0.0	34017.084	1.0
1120.1518	20.00	-2.89	39333.382	0.0	48258.300	1.0
1120.1891	14.00	-.76	49850.830	2.0	58775.451	2.0
1120.1992	28.01	-2.27	128818.410	6.5	137742.950	5.5
1120.2168	23.01	-2.35	64026.600	4.0	72951.000	4.0
1120.2268	27.00	-4.27	43847.980	3.5	52772.300	2.5
1120.2403	7.00	-2.98	107182.788	1.5	116107.000	.5
1120.2403	7.00	-3.47	107182.788	1.5	116107.000	1.5
1120.2419	29.01	.03	139142.100	2.0	148066.300	2.0
1120.2946	28.01	.60	119913.330	4.5	128837.110	5.5
1120.3099	20.00	-2.56	39335.322	1.0	48258.980	2.0
1120.3249	14.00	-2.73	49850.830	2.0	58774.368	3.0
1120.3953	20.00	-2.98	39335.322	1.0	48258.300	1.0
1120.4264	24.00	-4.70	44088.920	1.0	53011.650	1.0
1120.4289	18.01	-3.96	204951.090	3.5	213873.800	2.5
1120.4289	18.01	-1.94	204937.800	4.5	213860.510	3.5
1120.4327	28.01	-2.78	128853.870	2.5	137776.550	3.5
1120.4377	28.01	-2.95	128853.910	4.5	137776.550	3.5
1120.4428	18.01	-.96	204937.800	4.5	213860.400	4.5
1120.4578	18.01	-1.02	204951.090	3.5	213873.570	3.5
1120.4679	13.01	-1.29	133440.400	3.0	142362.800	2.0
1120.4679	13.01	-2.19	133440.400	3.0	142362.800	3.0
1120.4691	27.00	-4.47	43537.710	1.5	52460.100	2.5
1120.5005	18.01	-1.60	186074.350	2.5	194996.490	1.5
1120.5747	18.01	-1.59	204937.800	4.5	213859.350	4.5
1120.5884	18.01	.14	204937.800	4.5	213859.240	5.5
1120.5962	7.00	-3.27	107445.622	1.5	116367.000	.5
1120.5962	7.00	-3.31	107445.622	1.5	116367.000	2.5
1120.6437	29.01	-2.77	139710.200	2.0	148631.200	3.0
1120.6437	8.01	-1.28	265999.000	3.5	274920.000	2.5
1120.6651	28.01	.33	121294.670	4.5	130215.500	4.5
1120.7480	20.00	-2.28	39340.080	2.0	48260.250	3.0
1120.7681	28.01	-2.24	128862.490	4.5	137782.500	4.5
1120.7819	17.01	-1.67	119809.900	3.0	128729.800	3.0
1120.8158	28.01	-3.91	106022.790	.5	114942.420	1.5
1120.8196	29.01	-.94	139142.100	2.0	148061.700	3.0
1120.8707	22.00	-1.70	37325.407	2.0	46244.600	2.0
1120.8862	27.00	-3.33	43242.950	2.5	52162.020	3.5
1120.9076	20.00	-2.96	39340.080	2.0	48258.980	2.0
1120.9138	24.00	-4.69	44092.800	0.0	53011.650	1.0
1120.9555	18.00	-2.09	113716.610	3.0	122635.128	2.0
1120.9566	24.00	-4.03	24897.550	4.0	33816.060	4.0
1120.9654	28.01	-3.38	130184.610	5.5	139103.050	5.5
1120.9691	18.01	-1.44	150474.900	1.5	159393.310	1.5
1120.9854	18.01	-2.93	201608.820	3.5	210527.100	2.5
1120.9930	20.00	-4.07	39340.080	2.0	48258.300	1.0
1121.0622	28.01	-2.86	128837.110	5.5	137754.780	5.5
1121.1187	25.01	-3.41	29889.310	3.0	38806.530	4.0
1121.1288	18.01	-1.31	181594.050	2.5	190511.190	2.5
1121.1703	28.01	-3.43	128818.410	6.5	137735.220	6.5
1121.1766	28.01	-2.23	128837.110	5.5	137753.870	4.5
1121.2050	26.00	-4.29	28604.610	2.0	37521.144	2.0
1121.2068	10.01	-4.17	313431.490	4.5	322348.010	4.5
1121.2244	24.00	-4.25	44746.260	6.0	53662.640	7.0
1121.3061	10.01	-3.74	313432.280	3.5	322348.010	4.5
1121.3099	27.00	-2.21	43847.980	3.5	52763.680	3.5
1121.3350	28.01	-3.07	128867.000	3.5	137782.500	4.5
1121.3350	13.01	-1.13	133447.300	4.0	142362.800	3.0
1121.3451	23.01	-4.90	30318.630	4.0	39234.050	3.0
1121.3677	28.01	-1.69	130187.810	6.5	139103.050	5.5
1121.4482	13.01	-1.73	138536.400	3.0	147451.000	3.0
1121.4482	13.01	-.76	138536.400	3.0	147451.000	4.0
1121.4482	13.01	-.96	138536.400	3.0	147451.000	4.0
1121.4822	18.01	-2.20	163299.470	2.5	172213.800	1.5
1121.4960	28.01	-.34	121294.670	4.5	130208.890	3.5
1121.4986	29.01	-2.54	139119.500	3.0	148033.700	4.0
1121.5004	16.00	-4.45	69236.936	2.0	78151.121	2.0
1121.5061	6.00	-3.00	78199.070	2.0	87113.210	2.0
1121.5162	28.01	-2.14	128862.490	4.5	137776.550	3.5
1121.5439	18.01	-.78	204977.590	2.5	213891.430	2.5
1121.5464	28.01	.07	119913.330	4.5	128827.150	3.5
1121.5703	18.01	-2.11	204977.590	2.5	213891.220	1.5
1121.5828	7.00	-1.53	107588.469	.5	116502.000	1.5
1121.5828	7.00	-2.18	107588.469	.5	116502.000	.5
1121.6020	7.00	-2.09	107445.622	1.5	116359.000	2.5
1121.6106	18.01	-1.20	181594.050	2.5	190507.360	1.5
1121.6496	17.01	-2.36	144344.000	2.0	153257.000	2.0
1121.6986	28.01	-2.17	128869.890	5.5	137782.500	4.5
1121.7022	22.00	-4.98	37617.868	4.0	46530.450	4.0
1121.7112	28.01	.26	119909.720	1.5	128822.230	1.5
1121.7314	27.00	-2.16	43952.060	5.5	52864.410	4.5
1121.7316	26.00	-4.35	43137.472	3.0	52049.820	2.0
1121.7465	28.01	-.12	121294.670	4.5	130206.900	4.5
1121.7628	27.00	-4.50	45540.280	5.5	54452.380	6.5
1121.7729	18.01	-.85	199679.760	2.5	208591.780	1.5
1121.8154	14.00	-3.06	54313.818	1.0	63225.500	2.0
1121.8195	29.01	.07	137073.750	2.0	145985.400	2.0
1121.8431	26.00	-2.55	44243.668	5.0	53155.130	4.0
1121.8799	28.01	-4.86	121325.090	2.5	130236.260	2.5
1121.9076	28.01	.86	121294.670	4.5	130205.620	5.5
1121.9147	7.00	-4.20	107253.106	2.5	116164.000	1.5
1121.9147	7.00	-2.99	107253.106	2.5	116164.000	2.5
1121.9147	7.00	-2.70	107253.106	2.5	116164.000	3.5
1121.9238	26.00	-3.89	42859.756	2.0	51770.577	3.0
1121.9479	6.00	-4.12	78307.630	2.0	87218.260	2.0
1121.9630	28.01	-4.91	121800.340	1.5	130710.850	.5
1121.9864	28.00	-2.07	40361.254	3.0	49271.578	3.0
1122.0687	18.01	-2.04	196305.040	3.5	205214.710	3.5
1122.0687	18.01	-1.56	196305.040	3.5	205214.710	4.5
1122.0738	28.01	-1.03	121317.890	3.5	130227.520	2.5
1122.0788	26.01	-.76	78725.610	1.5	87635.200	.5
1122.0839	28.01	-2.22	128867.000	3.5	137776.550	3.5
1122.0939	14.02	-3.94	249103.900	2.0	258013.370	3.0
1122.1002	18.01	-3.04	204951.090	3.5	213860.510	3.5
1122.1141	18.01	-3.42	204951.090	3.5	213860.400	4.5
1122.1242	6.00	-2.53	80801.270	2.0	89710.500	3.0
1122.1254	25.00	-3.62	57485.970	2.5	66395.190	2.5
1122.2035	22.00	-4.14	36132.210	4.0	45040.810	4.0
1122.2136	7.00	-3.23	106980.480	.5	115889.000	.5
1122.2136	7.00	-4.11	106980.480	.5	115889.000	1.5
1122.2464	18.01	.05	204951.090	3.5	213859.350	4.5
1122.2577	28.01	-1.63	128827.050	7.5	137735.220	6.5
1122.2816	28.01	-.14	121317.890	3.5	130225.870	3.5
1122.2946	22.00	-4.63	37622.573	3.0	46530.450	4.0
1122.3409	7.01	-2.00	205350.180	2.0	214257.690	1.0
1122.3421	29.01	-1.17	137649.100	2.0	146556.600	3.0
1122.3421	23.00	-4.45	28595.640	3.5	37503.140	2.5
1122.4077	18.01	-1.80	196305.040	3.5	205212.020	4.5
1122.4656	7.00	-2.34	106980.480	.5	115887.000	.5
1122.4656	7.00	-2.21	106980.480	.5	115887.000	1.5
1122.4899	22.00	-3.14	37743.933	3.0	46650.260	3.0
1122.4984	26.00	-4.04	26351.049	5.0	35257.309	4.0
1122.5060	38.01	.11	56057.900	0.0	64966.538	0.0
1122.5170	26.00	-4.90	39625.784	4.0	48531.896	3.0
1122.5198	25.00	-3.43	53124.090	3.5	62030.180	4.5
1122.5352	7.00	-2.20	106996.032	1.5	115902.000	2.5
1122.5362	18.01	-.61	196315.510	2.5	205221.470	1.5
1122.5430	18.00	-3.75	117183.654	2.0	126089.560	3.0
1122.5445	7.00	-4.22	107253.106	2.5	116159.000	2.5
1122.5445	7.00	-1.74	107253.106	2.5	116159.000	3.5
1122.5513	28.01	-2.47	128837.110	5.5	137742.950	5.5
1122.5900	2.00	-1.68	186210.000	0.0	195117.972	0.0
1122.6096	7.00	-2.39	107445.622	1.5	116351.000	.5
1122.6096	7.00	-2.44	107445.622	1.5	116351.000	1.5
1122.6194	8.02	-.17	370326.700	0.0	379232.000	1.0
1122.6504	17.00	-3.49	74225.846	1.5	83130.900	1.5
1122.6623	27.00	-2.48	42269.320	4.5	51174.280	5.5
1122.6635	27.00	-4.71	46502.150	.5	55407.100	1.5
1122.6723	27.00	-2.79	43555.220	3.5	52460.100	2.5
1122.6963	10.01	.17	294333.220	.5	303237.910	1.5
1122.6988	21.00	-1.47	33056.190	3.5	41960.860	2.5
1122.7002	26.00	-3.25	44664.061	2.0	53568.720	2.0
1122.7013	29.01	-.20	137073.750	2.0	145978.400	3.0
1122.7089	7.00	-.59	94830.860	2.5	103735.450	2.5
1122.7278	29.01	-4.90	116326.160	3.0	125230.600	3.0
1122.7720	28.01	-3.08	104503.220	2.5	113407.310	2.5
1122.7770	6.00	-2.63	78199.070	2.0	87103.120	1.0
1122.7795	28.01	-2.40	128803.230	2.5	137707.260	3.5
1122.8438	23.00	-3.74	29202.800	1.5	38106.320	2.5
1122.8489	28.01	-2.34	128803.230	2.5	137706.710	2.5
1122.8615	24.00	-3.60	37205.880	3.0	46109.260	2.0
1122.8867	18.00	-4.45	112750.220	4.0	121653.400	3.0
1122.8867	18.00	-3.96	112750.220	4.0	121653.400	4.0
1122.9027	26.00	-4.99	51461.707	4.0	60364.760	3.0
1122.9637	24.00	-3.69	48458.670	2.0	57361.240	3.0
1123.0154	27.00	-4.55	46002.830	2.5	54904.990	2.5
1123.0579	18.00	-3.46	117151.387	1.0	126053.210	2.0
1123.0986	29.01	-1.76	139741.100	3.0	148642.600	2.0
1123.1176	29.01	-.93	137044.450	4.0	145945.800	5.0
1123.1781	28.01	-4.25	128853.910	4.5	137754.780	5.5
1123.1844	27.00	-2.98	42269.320	4.5	51170.140	4.5
1123.2210	20.02	-3.09	350900.040	2.0	359800.570	3.0
1123.2425	28.01	-1.03	122175.420	2.5	131075.780	1.5
1123.2458	22.00	-4.19	28952.100	4.0	37852.434	4.0
1123.2627	17.01	-2.67	161634.900	2.0	170535.100	2.0
1123.2866	6.00	-3.15	78318.250	3.0	87218.260	2.0
1123.2915	22.00	-4.07	28638.832	2.0	37538.804	2.0
1123.2930	28.01	-2.10	128853.910	4.5	137753.870	4.5
1123.3182	21.01	-3.74	55715.520	1.0	64615.280	0.0
1123.3637	17.02	-1.25	196137.900	2.5	205037.300	1.5
1123.3763	22.00	-3.61	25635.740	1.0	34535.040	2.0
1123.3889	18.01	-3.77	196315.510	2.5	205214.710	3.5
1123.3914	28.01	-2.28	128855.600	6.5	137754.780	5.5
1123.4232	26.00	-4.55	40534.180	3.0	49433.108	2.0
1123.4407	28.01	-1.82	108763.320	.5	117662.110	1.5
1123.4482	26.01	-4.99	54063.530	.5	62962.260	1.5
1123.5265	28.01	-3.83	128837.110	5.5	137735.220	6.5
1123.5782	6.00	-2.02	78215.510	3.0	87113.210	2.0
1123.5897	28.01	.67	121317.890	3.5	130215.500	4.5
1123.5932	26.00	-3.57	45551.748	1.0	54449.330	1.0
1123.5972	24.00	-4.02	46077.090	1.0	54974.640	2.0
1123.6124	28.01	-2.48	130205.620	5.5	139103.050	5.5
1123.6174	21.00	-3.85	24866.180	1.5	33763.570	1.5
1123.6528	19.00	-2.53	24701.430	.5	33598.540	.5
1123.6802	28.00	-4.27	50142.800	3.0	59039.693	4.0
1123.7425	15.01	-2.35	129626.000	1.0	138522.400	1.0
1123.7576	7.00	-1.32	94770.850	.5	103667.130	1.5
1123.7665	18.01	-3.70	204977.590	2.5	213873.800	2.5
1123.7741	28.01	-3.82	130206.900	4.5	139103.050	5.5
1123.7955	18.01	-.45	204977.590	2.5	213873.570	3.5
1123.8637	24.00	-3.38	48661.590	3.0	57557.030	3.0
1123.8751	27.00	-3.83	43199.650	2.5	52095.000	3.5
1123.8764	18.01	-2.19	204996.090	3.5	213891.430	2.5
1123.9269	28.01	-4.88	121862.570	3.5	130757.510	4.5
1123.9474	26.00	-4.21	42859.756	2.0	51754.534	1.0
1124.0950	23.01	-4.56	64057.390	3.0	72951.000	4.0
1124.1076	28.01	-2.16	119909.720	1.5	128803.230	2.5
1124.1203	28.01	-3.75	112906.930	1.5	121800.340	1.5
1124.1468	17.01	-2.55	150681.000	2.0	159574.200	2.0
1124.1762	7.00	-2.53	106996.032	1.5	115889.000	.5
1124.1762	7.00	-3.96	106996.032	1.5	115889.000	1.5
1124.2315	29.01	-2.59	137034.970	3.0	145927.500	2.0
1124.2619	28.01	-3.39	128862.490	4.5	137754.780	5.5
1124.3011	24.00	-4.21	48458.670	2.0	57350.650	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1124.3238	13.01	-3.52	138559.200	4.0	147451.000	3.0
1124.3238	13.01	-1.96	138559.200	4.0	147451.000	4.0
1124.3238	13.01	-2.10	138559.200	4.0	147451.000	4.0
1124.3238	13.01	-.43	138559.200	4.0	147451.000	5.0
1124.3744	15.01	-4.09	130913.700	3.0	139805.100	3.0
1124.3769	28.01	-4.79	128862.490	4.5	137753.870	4.5
1124.3814	22.00	-.94	25643.695	3.0	34535.040	2.0
1124.4250	28.01	.20	121317.890	3.5	130208.890	3.5
1124.4290	7.00	-4.32	106996.032	1.5	115887.000	.5
1124.4290	7.00	-3.10	106996.032	1.5	115887.000	1.5
1124.4290	7.00	-2.14	106996.032	1.5	115887.000	2.5
1124.4718	9.00	-4.03	117391.950	.5	126282.580	1.5
1124.5388	29.01	-.77	139741.100	3.0	148631.200	3.0
1124.5515	28.01	.18	119909.720	1.5	128799.720	.5
1124.5591	28.01	-1.19	121294.670	4.5	130184.610	5.5
1124.5768	13.01	-2.06	139242.900	3.0	148132.700	2.0
1124.5844	27.00	-4.63	45971.190	3.5	54860.930	4.5
1124.6701	22.00	-1.61	25438.898	2.0	34327.960	1.0
1124.6729	28.01	-2.85	128853.910	4.5	137742.950	5.5
1124.6767	28.01	.03	121317.890	3.5	130206.900	4.5
1124.6817	6.00	-4.01	80562.850	1.0	89451.820	1.0
1124.7615	25.00	-4.59	59827.880	5.5	68716.220	4.5
1124.8343	18.00	-1.61	106087.305	1.0	114975.070	1.0
1124.8577	27.00	-3.89	46502.150	.5	55389.730	1.5
1124.8615	28.01	-3.65	130215.500	4.5	139103.050	5.5
1124.8843	6.00	-3.34	79310.850	2.0	88198.220	2.0
1124.8868	28.01	-1.96	128855.600	6.5	137742.950	5.5
1124.8931	23.00	-2.17	17116.920	3.5	26004.220	2.5
1124.8931	13.01	.76	124792.000	2.0	133679.300	3.0
1124.9058	15.01	-.40	129666.100	2.0	138553.300	2.0
1124.9184	27.00	-4.52	46562.870	1.5	55449.970	2.5
1124.9475	28.01	-3.87	128867.000	3.5	137753.870	4.5
1124.9628	14.01	-2.15	119311.450	3.5	128198.200	3.5
1124.9628	14.01	-.60	119311.450	3.5	128198.200	4.5
1124.9818	14.01	-.72	119311.600	2.5	128198.200	3.5
1125.0703	8.02	-1.44	356838.000	1.0	365723.900	1.0
1125.1129	26.00	-2.48	23051.744	0.0	31937.308	1.0
1125.1248	22.00	-3.28	37359.130	2.0	46244.600	2.0
1125.1982	28.01	-2.58	128869.890	5.5	137754.780	5.5
1125.2413	6.00	-3.87	80562.850	1.0	89447.400	2.0
1125.2502	28.01	-4.22	128822.230	1.5	137706.710	2.5
1125.2574	22.00	-3.47	18141.229	5.0	27025.652	4.0
1125.2968	20.00	-1.18	37298.287	2.0	46182.399	3.0
1125.3135	28.01	-2.38	128869.890	5.5	137753.870	4.5
1125.3190	13.00	.16	32435.435	1.5	41319.372	2.5
1125.3465	18.01	-3.89	183090.810	1.5	191974.530	1.5
1125.4477	18.01	-2.31	204977.590	2.5	213860.510	3.5
1125.4880	13.00	.32	32436.778	2.5	41319.380	3.5
1125.4891	13.00	-.98	32436.778	2.5	41319.372	2.5
1125.5251	25.00	-2.54	57621.900	1.5	66504.210	1.5
1125.5707	29.01	-.79	137073.750	2.0	145955.700	1.0
1125.5935	12.01	-1.28	103419.700	2.5	112301.470	2.5
1125.5935	12.01	.02	103419.700	2.5	112301.470	3.5
1125.6188	23.01	-2.85	64026.600	4.0	72908.170	3.0
1125.6315	12.01	-.13	103420.000	1.5	112301.470	2.5
1125.6332	22.00	-2.70	29818.310	3.0	38699.767	2.0
1125.6759	16.01	-2.56	156121.330	2.5	165002.450	1.5
1125.7107	18.00	-3.46	117183.654	2.0	126064.500	2.0
1125.7798	17.01	-1.57	161654.800	1.0	170535.100	2.0
1125.7915	26.00	-4.66	42859.756	2.0	51739.964	2.0
1125.8039	28.01	-2.16	128827.150	3.5	137707.260	3.5
1125.8318	18.01	-4.61	158428.030	.5	167307.920	.5
1125.8660	28.01	-2.36	128855.600	6.5	137735.220	6.5
1125.8736	28.01	-2.74	128827.150	3.5	137706.710	2.5
1125.8888	6.00	-3.77	79318.780	1.0	88198.220	2.0
1125.8965	28.01	-4.85	104298.230	4.5	113177.610	3.5
1125.8982	26.00	-3.00	45281.816	2.0	54161.182	3.0
1126.0041	7.00	-2.26	107588.469	.5	116467.000	1.5
1126.0041	7.00	-1.96	107588.469	.5	116467.000	.5
1126.0144	22.00	-4.67	38159.710	3.0	47038.160	3.0
1126.0246	19.00	-2.23	24720.170	1.5	33598.540	.5
1126.0563	10.01	-4.37	313469.890	3.5	322348.010	3.5
1126.0563	10.01	-3.83	313469.890	3.5	322348.010	4.5
1126.0741	6.00	-1.49	78340.280	1.0	87218.260	2.0
1126.0892	24.00	-2.87	48824.500	4.0	57702.360	5.0
1126.1083	18.01	-1.99	204996.090	3.5	213873.800	2.5
1126.1273	24.00	-3.67	46109.260	2.0	54986.820	3.0
1126.1374	18.01	-2.15	204996.090	3.5	213873.570	3.5
1126.1602	8.02	.11	370415.700	1.0	379293.000	2.0
1126.2681	18.01	-4.71	206120.350	2.5	214996.800	3.5
1126.2734	22.00	-4.62	20006.032	2.0	28882.440	3.0
1126.2884	26.01	-.05	78725.610	1.5	87601.900	1.5
1126.3392	6.00	-3.48	80834.610	3.0	89710.500	3.0
1126.3709	23.00	-2.25	17054.870	2.5	25930.510	1.5
1126.4610	27.00	-4.50	23152.570	3.5	32027.500	3.5
1126.4864	28.01	-3.32	104298.230	4.5	113172.960	4.5
1126.5054	10.01	-.62	294086.490	1.5	302961.070	1.5
1126.5130	7.00	-3.68	106980.480	.5	115855.000	.5
1126.5130	7.00	-2.59	106980.480	.5	115855.000	1.5
1126.5156	28.01	-2.79	107082.210	2.5	115956.710	2.5
1126.5536	18.01	-4.69	173347.830	1.5	182222.030	1.5
1126.5537	30.02	-2.95	294034.300	4.0	302908.500	4.0
1126.5537	29.01	-1.06	139142.100	2.0	148016.300	1.0
1126.5819	22.00	-4.85	33114.412	2.0	41988.390	3.0
1126.6150	7.00	-1.34	107628.283	1.5	116502.000	1.5
1126.6150	7.00	-2.49	107628.283	1.5	116502.000	.5
1126.6209	7.00	-.51	94793.460	1.5	103667.130	1.5
1126.6311	28.01	-3.72	122812.970	3.5	131686.560	4.5
1126.6400	6.00	-3.46	79318.780	1.0	88192.300	1.0
1126.6984	28.01	-2.43	128869.890	5.5	137742.950	5.5
1126.7568	15.01	-.66	132078.400	4.0	140951.000	3.0
1126.7746	28.01	-3.34	121115.590	1.5	129988.050	2.5
1126.8229	24.00	-2.55	35501.260	3.0	44373.340	3.0
1126.8895	22.00	-3.04	28788.372	4.0	37659.927	3.0
1126.9092	28.01	-4.65	121699.020	1.5	130570.420	.5
1126.9537	18.01	-.28	206103.450	1.5	214974.500	2.5
1126.9735	7.00	-2.95	107253.106	2.5	116124.000	1.5
1127.0007	19.00	-2.96	24701.430	.5	33572.110	1.5
1127.0426	27.00	-3.60	43199.650	2.5	52070.000	2.5
1127.1049	28.01	-4.87	127331.600	2.5	136201.460	3.5
1127.1189	14.00	-3.23	53362.240	3.0	62231.990	2.0
1127.1964	6.00	-3.56	79323.160	0.0	88192.300	1.0
1127.2205	18.01	-1.64	201608.820	3.5	210477.770	3.5
1127.2612	6.00	-2.98	80562.850	1.0	89431.480	2.0
1127.3159	29.01	-1.16	139119.500	3.0	147987.700	2.0
1127.4533	14.00	-4.21	50189.389	2.0	59056.508	1.0
1127.5066	27.00	-3.70	43295.320	4.5	52162.020	3.5
1127.5094	26.00	-2.84	44415.057	4.0	53281.735	5.0
1127.5320	28.01	-.51	121317.890	3.5	130184.390	2.5
1127.5323	20.00	-1.28	37298.287	2.0	46164.785	3.0
1127.5476	7.00	-3.72	107445.622	1.5	116312.000	.5
1127.5476	7.00	-3.02	107445.622	1.5	116312.000	1.5
1127.5476	7.00	-3.03	107445.622	1.5	116312.000	2.5
1127.5502	20.00	-2.20	37298.287	2.0	46164.644	2.0
1127.5639	8.01	-1.09	246028.950	3.5	254895.200	2.5
1127.6745	24.00	-3.17	46109.260	2.0	54974.640	2.0
1127.6808	28.01	-3.41	128869.890	5.5	137735.220	6.5
1127.7024	23.01	-3.53	63816.900	3.0	72682.060	2.0
1127.7050	25.00	-3.38	59827.880	5.5	68693.020	5.5
1127.7316	7.00	-2.70	107037.069	2.5	115902.000	2.5
1127.7521	18.01	-1.29	206132.660	4.5	214997.430	4.5
1127.7826	25.00	-4.81	54218.710	1.5	63083.240	1.5
1127.7966	18.01	-.66	204996.090	3.5	213860.510	3.5
1127.8106	18.01	-.33	204996.090	3.5	213860.400	4.5
1127.8233	18.01	-2.44	201720.670	1.5	210584.880	1.5
1127.8284	21.00	-1.51	33151.400	4.5	42015.570	3.5
1127.8322	28.01	.50	120002.860	3.5	128867.000	3.5
1127.8322	18.01	-2.93	206132.660	4.5	214996.800	3.5
1127.8437	18.02	-2.85	243424.970	3.0	252289.020	3.0
1127.9098	28.01	-.80	122270.050	3.5	131133.580	2.5
1127.9137	17.01	-1.80	119799.000	2.0	128662.500	2.0
1127.9442	18.01	-1.94	204996.090	3.5	213859.350	4.5
1127.9912	10.01	-4.18	281720.280	1.5	290583.170	1.5
1127.9951	15.00	-3.08	66813.040	1.5	75675.900	1.5
1128.0142	18.01	-1.06	191169.520	1.5	200032.230	1.5
1128.0562	29.01	-1.99	135952.550	2.0	144814.930	3.0
1128.1224	24.00	-4.85	35884.400	5.0	44746.260	6.0
1128.1517	6.00	-3.66	81105.030	1.0	89966.660	2.0
1128.1606	21.00	-2.57	33154.010	2.5	42015.570	3.5
1128.1657	7.00	-3.47	106980.480	.5	115842.000	.5
1128.1657	7.00	-3.58	106980.480	.5	115842.000	1.5
1128.1733	28.01	-3.30	106007.890	2.5	114869.350	1.5
1128.1886	24.00	-2.45	35398.020	4.0	44259.360	3.0
1128.1937	26.01	-3.95	60441.050	1.5	69302.350	1.5
1128.2140	27.00	-2.47	43295.320	4.5	52156.460	4.5
1128.2395	27.00	-4.34	43911.360	1.5	52772.300	2.5
1128.2777	23.01	-3.74	63657.200	2.0	72517.840	1.0
1128.3034	10.00	-3.17	163401.301	0.0	172261.740	1.0
1128.3159	25.00	-4.84	48225.990	3.5	57086.330	2.5
1128.3669	23.00	-1.56	28462.150	2.5	37322.090	3.5
1128.3719	17.01	-2.25	161654.800	1.0	170514.700	1.0
1128.3847	29.01	-4.41	116388.000	2.0	125247.800	2.0
1128.4063	28.01	.60	120002.860	3.5	128862.490	4.5
1128.4384	7.00	-3.50	107445.622	1.5	116305.000	.5
1128.4384	7.00	-3.98	107445.622	1.5	116305.000	1.5
1128.4471	28.01	-4.07	97273.830	2.5	106133.140	1.5
1128.4523	7.00	-4.91	106758.731	.5	115618.000	.5
1128.4624	29.01	-3.69	116371.410	4.0	125230.600	3.0
1128.4815	24.00	-4.99	44534.460	4.0	53393.500	5.0
1128.4907	7.00	-2.98	106996.032	1.5	115855.000	.5
1128.4907	7.00	-3.08	106996.032	1.5	115855.000	1.5
1128.4907	7.00	-2.77	106996.032	1.5	115855.000	2.5
1128.5273	23.00	-1.58	28368.760	1.5	37227.440	2.5
1128.6267	28.01	-3.85	122812.970	3.5	131670.870	2.5
1128.6649	26.00	-3.30	36975.640	3.0	45833.240	4.0
1128.6930	23.01	-3.33	63816.900	3.0	72674.280	2.0
1128.7325	26.01	-3.35	60445.280	2.5	69302.350	1.5
1128.7440	22.00	-4.17	36065.750	3.0	44922.730	3.0
1128.8306	15.01	-.65	129666.100	2.0	138522.400	1.0
1128.8829	18.01	-3.96	201608.820	3.5	210464.710	2.5
1128.9070	22.00	-3.83	18037.225	4.0	26892.926	3.0
1128.9594	24.00	-4.44	46349.500	2.0	55204.790	3.0
1128.9830	14.00	.11	49933.775	3.0	58788.880	4.0
1129.0078	28.01	-.08	122270.050	3.5	131124.960	3.5
1129.0091	15.01	-3.45	130950.200	2.0	139805.100	3.0
1129.0371	22.01	-3.70	53554.900	2.5	62409.580	3.5
1129.0907	16.01	-.67	156148.190	.5	165002.450	1.5
1129.0970	18.01	-.13	206120.350	2.5	214974.560	3.5
1129.1021	6.00	-2.68	78148.090	2.0	87002.260	3.0
1129.1047	18.01	-1.42	206120.350	2.5	214974.500	2.5
1129.1373	7.00	-2.53	107253.106	2.5	116107.000	1.5
1129.1557	29.01	-.48	137073.750	2.0	145927.500	2.0
1129.1672	7.00	.07	94881.790	3.5	103735.450	2.5
1129.2017	28.01	-4.64	128853.870	2.5	137707.260	3.5
1129.2068	28.01	-2.39	128853.910	4.5	137707.260	3.5
1129.2339	22.00	-1.56	25317.813	1.0	34170.950	0.0
1129.2406	14.00	-2.62	49933.775	3.0	58786.860	3.0
1129.2718	28.01	-4.22	128853.870	2.5	137706.710	2.5
1129.2963	10.00	-1.78	158795.992	1.0	167648.640	2.0
1129.3024	17.01	-1.56	119809.900	3.0	128662.500	2.0
1129.3112	7.00	-3.21	107588.469	.5	116441.000	.5
1129.3112	7.00	-2.59	107588.469	.5	116441.000	1.5
1129.3381	24.00	-4.66	37205.880	3.0	46058.200	4.0
1129.3535	8.01	-1.11	265930.200	4.5	274782.400	3.5
1129.3662	24.00	-4.99	45966.450	2.0	54818.550	2.0
1129.3726	27.00	-3.02	43242.950	2.5	52095.000	3.5
1129.3867	19.00	-3.62	24720.170	1.5	33572.110	1.5
1129.3878	7.00	-4.93	107037.069	2.5	115889.000	1.5
1129.3930	19.00	-2.67	24720.170	1.5	33572.060	2.5
1129.4262	7.00	-.72	94770.850	.5	103622.480	.5
1129.4565	28.00	-4.18	48735.308	2.0	57586.700	2.0
1129.4836	6.00	-3.81	78104.980	0.0	86956.160	1.0
1129.5002	28.01	-.32	120002.860	3.5	128853.910	4.5
1129.5053	28.01	-.05	120002.860	3.5	128853.870	2.5
1129.5494	26.00	-3.39	45281.816	2.0	54132.480	1.0
1129.5755	28.01	-4.38	121385.800	1.5	130236.260	2.5
1129.5819	27.00	-3.92	43921.890	2.5	52772.300	2.5
1129.6138	28.01	-3.57	129271.720	3.5	138121.880	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1129.6430	7.00	-3.29	107037.069	2.5	115887.000	1.5
1129.6430	7.00	-3.80	107037.069	2.5	115887.000	2.5
1129.6430	7.00	-1.86	107037.069	2.5	115887.000	3.5
1129.6743	28.00	-1.27	47424.830	1.0	56274.516	2.0
1129.7491	29.01	-2.50	139710.200	2.0	148559.300	2.0
1129.7989	6.00	-3.43	78116.740	1.0	86965.450	2.0
1129.8257	25.00	-4.88	57485.970	2.5	66334.470	3.5
1129.8269	18.01	-3.01	206148.940	3.5	214997.430	4.5
1129.8449	10.00	-1.57	158601.115	2.0	167449.464	1.0
1129.8867	26.00	-2.83	22838.320	2.0	31686.342	2.0
1129.9074	18.01	-1.39	206148.940	3.5	214996.800	3.5
1129.9387	20.00	-2.68	38192.392	1.0	47040.007	2.0
1129.9494	7.00	-2.22	107588.469	.5	116436.000	1.5
1130.0045	29.01	-1.63	137649.100	2.0	146496.200	3.0
1130.0377	23.00	-4.82	28768.130	4.5	37614.970	3.5
1130.0888	21.00	-4.88	32659.210	1.5	41505.650	2.5
1130.1042	18.01	-1.51	206132.660	4.5	214978.980	4.5
1130.1207	26.01	.05	78725.610	1.5	87571.800	2.5
1130.1247	26.00	-4.03	45220.662	3.0	54066.821	2.0
1130.1491	7.00	-2.78	106996.032	1.5	115842.000	.5
1130.1491	7.00	-4.08	106996.032	1.5	115842.000	1.5
1130.1568	26.00	-4.19	45220.662	3.0	54066.570	4.0
1130.1705	13.01	-1.24	139286.800	2.0	148132.600	3.0
1130.1961	29.01	-1.34	139142.100	2.0	147987.700	2.0
1130.2349	26.00	-3.18	42859.756	2.0	51705.052	2.0
1130.2434	28.01	.77	122270.050	3.5	131115.280	4.5
1130.2600	23.00	-1.67	28595.640	3.5	37440.740	4.5
1130.3022	28.01	-2.91	128862.490	4.5	137707.260	3.5
1130.3137	23.00	-1.76	28313.680	.5	37158.360	1.5
1130.3852	10.00	-1.28	159534.620	1.0	168378.740	2.0
1130.4219	20.00	-2.25	38192.392	1.0	47036.225	1.0
1130.4389	17.01	-1.91	161671.000	0.0	170514.700	1.0
1130.4437	7.00	-3.90	106778.337	1.5	115622.000	2.5
1130.4557	10.00	-1.58	158795.992	1.0	167639.561	1.0
1130.4564	28.00	-3.16	40484.282	2.0	49327.845	2.0
1130.4670	25.00	-4.26	57305.620	3.5	66149.100	3.5
1130.4939	27.00	-2.63	23184.230	2.5	32027.500	3.5
1130.5437	15.00	.23	67113.820	2.5	75956.700	3.5
1130.5602	14.00	-3.23	50189.389	2.0	59032.140	2.0
1130.5834	22.01	-4.74	20891.880	3.5	29734.450	3.5
1130.5885	9.01	-.33	269573.640	1.0	278416.170	0.0
1130.6064	26.00	-2.72	44551.325	3.0	53393.715	4.0
1130.6077	21.00	-4.75	25724.720	3.5	34567.100	3.5
1130.6600	8.00	-.32	86625.769	1.0	95467.740	2.0
1130.6690	18.01	-2.86	206132.660	4.5	214974.560	3.5
1130.6831	27.00	-3.62	43921.890	2.5	52763.680	3.5
1130.6870	24.00	-4.76	53804.840	3.0	62646.600	2.0
1130.6977	14.00	-1.80	49933.775	3.0	58775.451	2.0
1130.7049	22.00	-4.63	39265.800	2.0	48107.420	2.0
1130.7330	15.00	-3.73	66834.500	1.5	75675.900	1.5
1130.7727	6.00	-3.90	79318.780	1.0	88159.870	0.0
1130.7829	23.00	-4.16	35225.040	2.5	44066.050	3.5
1130.8276	24.00	-3.69	46368.350	3.0	55209.010	4.0
1130.8302	14.01	-.87	118523.120	1.5	127363.760	2.5
1130.8362	14.00	-.79	49933.775	3.0	58774.368	3.0
1130.8392	14.01	-.71	118523.190	2.5	127363.760	3.5
1130.8392	14.01	-2.01	118523.190	2.5	127363.760	2.5
1130.8788	28.01	-3.71	128867.000	3.5	137707.260	3.5
1130.8954	22.00	-3.28	37690.320	5.0	46530.450	4.0
1130.9184	8.00	-.10	86627.790	2.0	95467.740	2.0
1130.9236	23.00	-4.49	17181.980	4.5	26021.890	3.5
1130.9287	22.00	-3.04	36200.940	5.0	45040.810	4.0
1130.9492	28.01	-4.66	128867.000	3.5	137706.710	2.5
1130.9530	22.00	-4.78	18825.890	1.0	27665.570	1.0
1130.9551	7.00	-3.10	106778.337	1.5	115618.000	.5
1130.9551	7.00	-3.53	106778.337	1.5	115618.000	1.5
1130.9551	7.00	-2.50	106778.337	1.5	115618.000	2.5
1130.9862	6.00	-4.46	78116.740	1.0	86956.160	1.0
1131.0199	26.00	-4.61	49135.003	3.0	57974.160	2.0
1131.0328	14.00	-3.50	53387.334	1.0	62226.390	1.0
1131.0682	27.00	-2.88	43425.710	2.5	52264.490	1.5
1131.0707	28.01	-2.29	100309.290	5.5	109148.050	4.5
1131.0707	24.00	-1.56	26801.930	1.0	35640.690	0.0
1131.0762	7.00	-1.56	107628.283	1.5	116467.000	1.5
1131.0762	7.00	-2.26	107628.283	1.5	116467.000	.5
1131.0797	14.01	-.46	103556.290	3.5	112394.980	2.5
1131.0963	14.01	-1.77	103556.420	2.5	112394.980	2.5
1131.1168	14.01	-.62	103556.420	2.5	112394.820	1.5
1131.1336	7.00	-3.49	106758.731	.5	115597.000	1.5
1131.1373	24.00	-2.47	45966.450	2.0	54804.690	1.0
1131.1437	18.01	-3.10	201608.820	3.5	210447.010	3.5
1131.2077	24.00	-4.78	24833.860	3.0	33671.550	3.0
1131.2345	21.00	-4.67	32637.400	.5	41474.880	1.5
1131.3485	9.01	-3.76	246662.010	1.0	255498.600	2.0
1131.3677	24.00	-3.05	46368.350	3.0	55204.790	3.0
1131.3889	8.00	.04	86631.466	3.0	95467.740	2.0
1131.3894	7.00	-.22	94830.860	2.5	103667.130	1.5
1131.4194	22.00	-3.89	28702.768	3.0	37538.804	2.0
1131.4240	27.00	-4.36	46329.630	2.5	55165.630	2.5
1131.4881	30.02	-4.29	294034.300	4.0	302869.800	3.0
1131.5252	18.01	-.27	205056.220	1.5	213891.430	2.5
1131.5406	22.00	-2.20	25699.950	2.0	34535.040	2.0
1131.5521	18.01	-1.01	205056.220	1.5	213891.220	1.5
1131.5905	30.02	-2.89	294035.100	2.0	302869.800	3.0
1131.6274	26.00	-3.97	45551.748	1.0	54386.160	1.0
1131.6497	22.00	-1.89	25493.722	2.0	34327.960	1.0
1131.7301	27.00	-3.22	43199.650	2.5	52033.260	1.5
1131.7442	29.01	-4.25	129759.600	1.0	138593.100	1.0
1131.7673	26.02	-1.41	184777.600	2.0	193610.920	3.0
1131.7839	9.01	-.02	269563.930	2.0	278397.120	1.0
1131.7916	28.01	-1.03	122270.050	3.5	131103.180	2.5
1131.7968	28.01	-2.23	101740.270	3.5	110573.360	2.5
1131.8250	26.02	-1.72	184778.500	3.0	193611.370	4.0
1131.8339	27.00	-.98	27497.060	2.5	36329.860	2.5
1131.8730	28.00	-2.33	45418.858	2.0	54251.353	3.0
1131.8826	26.02	-.39	184778.500	3.0	193610.920	3.0
1131.8954	26.01	-3.21	60270.370	3.5	69102.690	2.5
1131.9531	26.02	-.54	184779.500	4.0	193611.370	4.0
1131.9621	8.02	.33	370524.200	2.0	379356.000	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1132.0108	26.02	.16	184779.500	4.0	193610.920	3.0
1132.0710	18.01	-4.11	148842.370	2.5	157673.320	2.5
1132.1198	26.02	.32	184780.800	5.0	193611.370	4.0
1132.1604	26.00	-3.74	45061.287	3.0	53891.540	3.0
1132.1877	18.01	.13	206148.940	3.5	214978.980	4.5
1132.2339	18.01	-2.32	201608.820	3.5	210438.500	4.5
1132.2481	28.00	-3.37	40484.282	2.0	49313.851	3.0
1132.2874	17.00	-3.31	83364.927	.5	92194.190	1.5
1132.3185	7.00	-.72	94793.460	1.5	103622.480	.5
1132.3326	27.00	-4.50	43435.580	.5	52264.490	1.5
1132.3570	18.02	-3.45	243424.970	3.0	252253.690	2.0
1132.3608	26.02	-1.42	184777.300	1.0	193605.990	2.0
1132.3660	18.01	-4.60	173393.380	2.5	182222.030	1.5
1132.3993	26.02	-.42	184777.600	2.0	193605.990	2.0
1132.4404	27.00	-4.84	46454.950	1.5	55283.020	2.5
1132.5148	26.02	-.04	184778.500	3.0	193605.990	2.0
1132.5263	25.00	-4.81	34845.260	.5	43672.660	.5
1132.5327	29.01	-2.89	137073.750	2.0	145901.100	1.0
1132.5353	18.01	-.39	186470.280	1.5	195297.610	1.5
1132.5712	27.00	-2.89	43242.950	2.5	52070.000	2.5
1132.6392	27.00	-3.57	45688.150	2.5	54514.670	3.5
1132.6777	23.00	-4.09	35092.360	1.5	43918.580	2.5
1132.6902	20.00	-2.62	38219.118	2.0	47045.241	3.0
1132.7002	22.00	-4.65	20126.055	3.0	28952.100	4.0
1132.7201	27.00	-4.78	43295.320	4.5	52121.210	4.5
1132.7547	18.01	-4.55	206148.940	3.5	214974.560	3.5
1132.7624	18.01	-2.97	206148.940	3.5	214974.500	2.5
1132.7971	23.00	-4.00	30771.720	4.5	39597.010	4.5
1132.8047	18.01	-1.02	186171.260	.5	194996.490	1.5
1132.8394	6.00	-4.64	79310.850	2.0	88135.810	3.0
1132.8420	28.01	.62	120044.950	4.5	128869.890	5.5
1132.8687	26.00	-4.44	46901.808	1.0	55726.540	0.0
1132.8728	24.00	-3.11	37233.500	5.0	46058.200	4.0
1132.8867	10.00	-4.09	163657.268	1.0	172481.860	1.0
1132.9255	23.00	-3.17	29418.170	3.5	38242.460	3.5
1132.9255	28.01	-1.15	120002.860	3.5	128827.150	3.5
1132.9460	28.01	-4.73	122812.970	3.5	131637.100	3.5
1132.9614	10.00	-1.96	159534.620	1.0	168358.630	1.0
1132.9664	26.00	-3.36	45551.748	1.0	54375.719	2.0
1132.9665	28.01	-.94	129297.910	3.5	138121.880	4.5
1133.0282	6.00	.29	68856.330	1.0	77679.820	2.0
1133.0295	9.01	-.41	269573.640	1.0	278397.120	1.0
1133.0359	15.00	-4.42	68088.270	1.5	76911.700	.5
1133.0590	28.01	-.59	122270.050	3.5	131093.300	4.5
1133.1040	17.01	-2.08	119799.000	2.0	128621.900	1.0
1133.1581	22.00	-4.95	20006.032	2.0	28828.510	2.0
1133.1630	26.02	-.57	184777.300	1.0	193599.740	1.0
1133.1768	26.00	-3.82	47960.973	4.0	56783.306	3.0
1133.1797	28.01	-1.88	119909.720	1.5	128732.030	1.5
1133.1900	24.00	-1.69	26796.280	2.0	35618.510	1.0
1133.2016	26.02	-.27	184777.600	2.0	193599.740	1.0
1133.2131	28.01	-.41	120044.950	4.5	128867.000	3.5
1133.2217	26.00	-4.79	48036.667	2.0	56858.650	2.0
1133.2966	8.01	-1.55	265961.000	2.5	274782.400	3.5
1133.3622	10.00	-1.68	159534.620	1.0	168355.510	1.0
1133.3623	20.00	-2.05	38219.118	2.0	47040.007	2.0
1133.4251	17.01	-3.03	119842.100	1.0	128662.500	2.0
1133.4559	23.01	-3.21	64130.840	4.0	72951.000	4.0
1133.5086	18.01	-.84	204113.710	1.5	212933.460	2.5
1133.5124	6.00	-3.21	78293.490	1.0	87113.210	2.0
1133.5562	14.02	-.27	206176.080	1.0	214995.460	0.0
1133.5999	9.01	.26	269548.970	3.0	278368.010	2.0
1133.6102	6.00	-1.03	69710.660	2.0	78529.620	3.0
1133.6282	6.00	-.87	77679.820	2.0	86498.640	2.0
1133.6359	28.01	-4.52	113321.950	4.5	122140.710	4.5
1133.6483	7.00	-2.79	106778.337	1.5	115597.000	1.5
1133.6552	18.01	.06	204113.710	1.5	212932.320	1.5
1133.6577	27.00	-2.02	43295.320	4.5	52113.910	5.5
1133.6603	14.02	.12	206176.080	1.0	214994.650	1.0
1133.7079	29.01	-1.84	139741.100	3.0	148559.300	2.0
1133.7092	24.00	-3.69	46000.360	3.0	54818.550	2.0
1133.7156	18.01	.04	206623.800	3.5	215441.940	4.5
1133.7265	10.00	-4.81	163657.268	1.0	172475.323	2.0
1133.7336	26.02	-.57	184777.300	1.0	193595.300	0.0
1133.7425	7.00	-2.55	107037.069	2.5	115855.000	1.5
1133.7425	7.00	-2.40	107037.069	2.5	115855.000	2.5
1133.7465	18.01	-1.50	206623.800	3.5	215441.700	3.5
1133.7593	15.01	-2.31	132133.200	3.0	140951.000	3.0
1133.7624	26.00	-4.18	42532.729	3.0	51350.505	4.0
1133.7835	26.00	-2.20	44243.668	5.0	53061.280	5.0
1133.7876	18.01	-2.02	205056.220	1.5	213873.800	2.5
1133.7927	28.01	.46	120044.950	4.5	128862.490	4.5
1133.8159	6.00	-4.38	78148.090	2.0	86965.450	2.0
1133.8485	20.00	-2.70	38219.118	2.0	47036.225	1.0
1133.9162	24.00	-1.21	26801.930	1.0	35618.510	1.0
1133.9264	9.01	-3.25	246682.100	2.0	255498.600	2.0
1133.9522	8.02	-.54	370415.700	1.0	379232.000	1.0
1134.0332	21.00	-3.87	32659.210	1.5	41474.880	1.5
1134.1838	28.01	-3.52	107142.210	1.5	115956.710	2.5
1134.2442	24.00	-3.45	37244.170	4.0	46058.200	4.0
1134.2558	25.00	-1.89	47753.990	2.5	56567.930	1.5
1134.3051	28.00	-3.37	40361.254	3.0	49174.811	4.0
1134.3281	7.00	-3.14	107445.622	1.5	116259.000	.5
1134.3281	7.00	-2.40	107445.622	1.5	116259.000	1.5
1134.3281	7.00	-4.10	107445.622	1.5	116259.000	2.5
1134.3523	14.02	.43	206176.080	1.0	214989.270	2.0
1134.4132	7.00	-3.52	107628.283	1.5	116441.000	.5
1134.4132	7.00	-2.66	107628.283	1.5	116441.000	1.5
1134.4132	7.00	-2.49	107628.283	1.5	116441.000	2.5
1134.4515	24.00	-2.69	46174.400	3.0	54986.820	3.0
1134.4515	18.01	-1.88	191169.520	1.5	199981.940	1.5
1134.4592	18.01	-1.46	205079.070	2.5	213891.430	2.5
1134.4746	24.00	-4.49	35934.020	6.0	44746.260	6.0
1134.4862	18.01	-1.99	205079.070	2.5	213891.220	1.5
1134.5570	29.01	-1.26	139710.200	2.0	148521.800	1.0
1134.5874	26.00	-5.00	46313.610	2.0	55124.974	3.0
1134.5956	15.01	-1.72	130993.800	3.0	139805.100	3.0
1134.6085	8.01	-1.63	265928.000	1.5	274739.200	2.5
1134.6124	24.00	-4.37	27223.050	2.0	36034.220	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1134.6214	18.01	-.92	186470.280	1.5	195281.380	.5
1134.6755	23.02	-3.97	153112.600	3.5	161923.280	2.5
1134.6827	26.00	-4.96	49460.876	5.0	58271.500	5.0
1134.7592	18.01	-.07	206631.670	2.5	215441.700	3.5
1134.7773	23.00	-3.27	29296.430	2.5	38106.320	2.5
1134.8108	6.00	-2.17	78293.490	1.0	87103.120	1.0
1134.8120	21.00	-3.98	32637.400	.5	41447.020	.5
1134.8971	28.01	-.58	120044.950	4.5	128853.910	4.5
1134.9164	21.00	-3.93	32696.840	2.5	41505.650	2.5
1134.9345	9.01	-2.06	277892.610	3.0	286701.280	2.0
1134.9370	18.01	-1.36	186074.350	2.5	194883.000	3.5
1134.9934	7.00	-2.71	107182.788	1.5	115991.000	2.5
1135.0401	18.01	-4.49	206103.450	1.5	214911.300	2.5
1135.0572	7.00	-2.29	107628.283	1.5	116436.000	1.5
1135.0572	7.00	-1.49	107628.283	1.5	116436.000	2.5
1135.0598	28.00	-2.58	43464.019	1.0	52271.716	2.0
1135.0799	7.00	-2.90	106814.459	2.5	115622.000	2.5
1135.1223	7.00	-4.05	107182.788	1.5	115990.000	.5
1135.1223	7.00	-3.16	107182.788	1.5	115990.000	1.5
1135.1223	7.00	-4.31	107182.788	1.5	115990.000	2.5
1135.1690	21.00	-2.03	33154.010	2.5	41960.860	2.5
1135.1754	13.01	-4.91	138536.400	3.0	147343.200	2.0
1135.2231	18.01	-1.89	201720.670	1.5	210527.100	2.5
1135.2308	21.00	-2.40	33278.640	3.5	42085.010	4.5
1135.2599	10.00	-2.89	162517.872	1.0	171324.017	1.0
1135.3326	6.00	-2.15	78307.630	2.0	87113.210	2.0
1135.4163	7.00	-3.55	107037.069	2.5	115842.000	1.5
1135.5029	23.00	-5.66	14548.830	2.5	23353.090	3.5
1135.5261	9.01	-.36	269563.930	2.0	278368.010	2.0
1135.5261	10.01	-3.57	294086.490	1.5	302890.570	2.5
1135.5957	7.00	-2.65	106814.459	2.5	115618.000	1.5
1135.5957	7.00	-2.19	106814.459	2.5	115618.000	2.5
1135.6045	26.00	-2.75	29371.860	3.0	38175.332	3.0
1135.6203	9.01	-2.55	277902.790	2.0	286706.140	1.0
1135.6268	15.02	.72	191639.500	1.5	200442.800	2.5
1135.6268	15.02	-.23	191639.500	1.5	200442.800	1.5
1135.6410	6.00	-4.15	78199.070	2.0	87002.260	3.0
1135.6539	18.01	-3.49	201781.790	2.5	210584.880	1.5
1135.6654	23.00	-2.31	28313.680	.5	37116.680	.5
1135.6706	6.00	-.80	77679.820	2.0	86482.780	2.0
1135.6861	6.00	-.71	77679.820	2.0	86482.660	3.0
1135.7672	26.00	-4.76	42532.729	3.0	51334.940	4.0
1135.7686	28.01	-4.30	106283.160	2.5	115085.360	3.5
1135.8086	20.02	-3.77	350741.190	3.0	359543.080	4.0
1135.8603	7.01	-.17	221141.610	3.0	229943.100	4.0
1135.9067	23.00	-3.67	29202.800	1.5	38003.930	1.5
1135.9163	14.00	-2.25	54185.264	1.0	62986.320	2.0
1135.9276	28.00	-2.69	42656.317	1.0	51457.285	0.0
1135.9628	14.00	-1.36	54185.264	1.0	62985.960	1.0
1136.0010	24.00	-2.23	35572.940	2.0	44373.340	3.0
1136.0048	28.01	-1.33	120002.860	3.5	128803.230	2.5
1136.0216	24.00	-3.19	46174.400	3.0	54974.640	2.0
1136.1197	18.01	.26	204133.980	2.5	212933.460	2.5
1136.1572	25.00	-4.83	34845.260	.5	43644.450	1.5
1136.2179	24.00	-3.98	35501.260	3.0	44299.980	2.0
1136.2463	30.02	-3.63	294005.800	5.0	302804.300	5.0
1136.2476	9.01	-2.97	277902.790	2.0	286701.280	2.0
1136.2618	25.00	-3.46	57705.830	.5	66504.210	1.5
1136.2642	26.00	-4.53	42532.729	3.0	51331.090	2.0
1136.2669	18.01	-.86	204133.980	2.5	212932.320	1.5
1136.3333	22.00	-3.21	37852.434	4.0	46650.260	3.0
1136.3359	28.00	-2.94	40361.254	3.0	49159.060	2.0
1136.3573	24.00	-3.78	42238.040	2.0	51035.680	2.0
1136.3884	8.01	-1.03	265985.000	3.5	274782.400	3.5
1136.4617	8.00	-2.62	99680.968	1.0	108477.800	1.0
1136.4617	8.00	-2.15	99680.968	1.0	108477.800	2.0
1136.4721	8.00	-3.80	99681.049	2.0	108477.800	1.0
1136.4721	8.00	-2.62	99681.049	2.0	108477.800	2.0
1136.4721	8.00	-1.88	99681.049	2.0	108477.800	3.0
1136.5057	8.00	-2.50	99681.309	0.0	108477.800	1.0
1136.5537	6.00	-4.94	78116.740	1.0	86912.860	1.0
1136.5770	10.01	.54	308101.270	2.5	316897.210	3.5
1136.6351	6.00	-1.80	78307.630	2.0	87103.120	1.0
1136.6673	10.00	-1.44	158795.992	1.0	167591.233	2.0
1136.6987	10.00	-3.15	162517.872	1.0	171312.870	0.0
1136.7036	6.00	-1.56	78318.250	3.0	87113.210	2.0
1136.7075	29.01	-1.81	108335.430	2.0	117130.360	2.0
1136.7230	27.00	-3.35	43921.890	2.5	52716.700	3.5
1136.7282	20.01	-4.67	72722.230	1.5	81517.000	1.5
1136.7334	18.01	-.82	205079.070	2.5	213873.800	2.5
1136.7631	18.01	-3.78	205079.070	2.5	213873.570	3.5
1136.7657	24.00	-3.76	37205.880	3.0	46000.360	3.0
1136.7760	8.01	-2.34	265988.000	2.5	274782.400	3.5
1136.7789	7.00	-4.93	107445.622	1.5	116240.000	1.5
1136.7789	7.00	-2.53	107445.622	1.5	116240.000	2.5
1136.7799	9.01	-1.44	269573.640	1.0	278368.010	2.0
1136.8196	22.00	-4.79	28828.510	2.0	37622.573	3.0
1136.8835	10.00	-3.10	161524.174	1.0	170317.742	2.0
1136.9324	29.01	-3.76	114511.440	1.0	123304.630	1.0
1137.0462	18.01	-3.12	201720.670	1.5	210512.980	1.5
1137.0630	18.01	-1.77	190732.970	.5	199525.150	1.5
1137.0656	28.01	.43	120044.950	4.5	128837.110	5.5
1137.0992	30.02	-3.86	294035.100	2.0	302827.000	2.0
1137.1079	22.00	-3.78	28952.100	4.0	37743.933	3.0
1137.1290	28.01	-4.05	121050.660	2.5	129842.330	2.5
1137.1536	26.01	-.22	78843.720	.5	87635.200	.5
1137.1639	27.00	-3.91	43911.360	1.5	52702.760	1.5
1137.2221	18.01	-3.64	206120.350	2.5	214911.300	2.5
1137.2467	23.01	-4.24	63657.200	2.0	72447.960	3.0
1137.2565	22.00	-3.14	25537.276	1.0	34327.960	1.0
1137.2778	22.00	-3.18	36132.210	4.0	44922.730	3.0
1137.3036	18.01	-.64	182222.030	1.5	191012.350	1.5
1137.3049	27.00	-2.84	43242.950	2.5	52033.260	1.5
1137.3176	7.00	-2.79	107182.788	1.5	115973.000	1.5
1137.3191	13.01	-.91	139916.700	1.0	148706.900	0.0
1137.3321	18.01	-1.67	191169.520	1.5	199959.620	2.5
1137.3709	23.01	-3.31	30613.970	4.0	39403.770	4.0
1137.3852	6.00	-.03	77679.820	2.0	86469.510	3.0
1137.3968	23.00	-3.26	28368.760	1.5	37158.360	1.5
1137.4095	26.00	-3.55	17550.180	3.0	26339.682	2.0
1137.4511	28.01	-4.61	111120.540	1.5	119909.720	1.5
1137.4848	27.00	-3.03	45688.150	2.5	54477.070	3.5
1137.5650	17.01	-1.02	141010.000	2.0	149798.300	2.0
1137.5948	28.01	-3.62	107082.210	2.5	115870.280	2.5
1137.6150	17.00	-1.06	94314.206	1.5	103102.120	1.5
1137.6285	21.00	-3.98	32659.210	1.5	41447.020	.5
1137.6608	27.00	-3.03	44555.710	1.5	53343.270	1.5
1137.6950	28.00	-2.84	40484.282	2.0	49271.578	3.0
1137.7023	26.00	-4.40	37046.000	4.0	45833.240	4.0
1137.7074	6.01	-2.58	175287.390	.5	184074.590	1.5
1137.7160	17.00	-.14	94314.206	1.5	103101.340	2.5
1137.7333	26.02	-4.88	190425.720	5.0	199212.720	4.0
1137.7437	18.01	-.73	186074.350	2.5	194861.270	2.5
1137.7657	6.00	-3.14	78215.510	3.0	87002.260	3.0
1137.7722	15.01	-4.31	132164.300	2.0	140951.000	3.0
1137.7916	24.00	-3.72	46422.460	4.0	55209.010	4.0
1137.7959	22.00	-4.23	37743.933	3.0	46530.450	4.0
1137.8042	17.00	-1.68	83364.927	.5	92151.380	.5
1137.8477	20.00	-1.77	38259.124	3.0	47045.241	3.0
1137.8538	20.01	-3.71	72730.930	2.5	81517.000	1.5
1137.9159	6.00	-2.70	69744.030	3.0	78529.620	3.0
1137.9162	22.00	-4.61	20006.032	2.0	28791.620	1.0
1137.9354	24.00	-2.04	26787.500	3.0	35572.940	2.0
1137.9548	28.01	-4.00	114052.040	3.5	122837.330	4.5
1137.9690	6.00	-4.33	79310.850	2.0	88096.030	2.0
1137.9917	26.00	-3.66	45281.816	2.0	54066.821	2.0
1138.0183	30.02	-2.55	294123.700	3.0	302908.500	4.0
1138.0493	18.01	-.83	200138.850	3.5	208923.410	2.5
1138.0532	21.00	-3.99	25014.150	2.5	33798.680	2.5
1138.1388	6.00	-2.08	78293.490	1.0	87077.360	0.0
1138.1454	11.00	-.48	16956.172	.5	25739.991	.5
1138.1660	27.00	-4.02	42269.320	4.5	51052.980	3.5
1138.1997	8.01	-1.19	265999.000	3.5	274782.400	3.5
1138.1997	8.01	-1.08	265999.000	4.5	274782.400	3.5
1138.2424	26.00	-4.97	49737.110	5.0	58520.180	4.0
1138.2930	22.01	-6.40	20951.770	2.5	29734.450	3.5
1138.2956	26.02	-3.22	190918.170	3.0	199700.830	4.0
1138.3109	7.00	-3.33	106814.459	2.5	115597.000	1.5
1138.3383	24.00	-3.86	46422.460	4.0	55204.790	3.0
1138.3552	28.01	-.58	120044.950	4.5	128827.150	3.5
1138.4368	24.00	-3.43	42254.110	3.0	51035.680	2.0
1138.4537	18.01	-.11	205079.070	2.5	213860.510	3.5
1138.4809	14.00	-1.33	54205.090	2.0	62986.320	2.0
1138.4900	6.00	-3.63	79310.850	2.0	88092.010	1.0
1138.5185	10.01	-.74	308101.270	2.5	316882.210	2.5
1138.5259	20.00	-2.65	38259.124	3.0	47040.007	2.0
1138.5276	14.00	-1.80	54205.090	2.0	62985.960	1.0
1138.5613	18.01	-1.64	205100.530	5.5	213881.140	5.5
1138.5626	10.01	.39	308101.610	1.5	316882.210	2.5
1138.5717	6.01	-2.33	175294.750	1.5	184075.280	2.5
1138.5717	18.01	.25	205100.530	5.5	213881.060	6.5
1138.5967	26.00	-4.12	48928.423	2.0	57708.760	2.0
1138.5989	22.00	-4.76	34078.580	3.0	42858.900	3.0
1138.6611	6.01	-3.28	175294.750	1.5	184074.590	1.5
1138.6663	17.01	-2.64	119842.100	1.0	128621.900	1.0
1138.7182	15.01	-.55	131025.700	4.0	139805.100	3.0
1138.8310	7.00	-3.67	107588.469	.5	116367.000	.5
1138.8310	7.00	-2.00	107588.469	.5	116367.000	1.5
1138.8350	29.01	-1.46	137649.100	2.0	146427.600	1.0
1138.8520	26.00	-2.72	45333.834	2.0	54112.203	2.0
1138.8739	8.01	-2.23	265961.000	2.5	274739.200	2.5
1138.8947	21.00	-3.58	32696.840	2.5	41474.880	1.5
1138.9712	24.00	-3.68	25038.610	5.0	33816.060	4.0
1138.9868	23.01	-3.79	64130.840	4.0	72908.170	3.0
1139.0090	16.00	-1.61	67876.685	4.0	76653.844	3.0
1139.0122	16.00	.43	67876.685	4.0	76653.819	5.0
1139.0124	16.00	-.43	67876.685	4.0	76653.817	4.0
1139.0433	10.00	-.57	149824.221	2.0	158601.115	2.0
1139.0529	18.01	.18	205104.320	4.5	213881.140	5.5
1139.0737	24.00	-1.10	26796.280	2.0	35572.940	2.0
1139.1737	17.00	-1.80	83130.900	1.5	91906.790	2.5
1139.1892	20.01	-3.58	72722.230	1.5	81498.000	.5
1139.1944	27.00	-1.97	36329.860	2.5	45105.590	3.5
1139.1957	7.01	-4.47	221167.380	4.0	229943.100	4.0
1139.2386	27.00	-4.38	45540.280	5.5	54315.670	5.5
1139.2481	26.00	-4.25	46600.800	1.0	55376.117	1.0
1139.2633	17.00	-.45	83364.927	.5	92140.127	1.5
1139.3152	27.00	-3.08	44568.470	2.5	53343.270	1.5
1139.3541	29.01	-.04	139741.100	3.0	148515.600	4.0
1139.3717	18.00	-1.11	106087.305	1.0	114861.670	0.0
1139.4010	10.00	-4.32	163707.721	1.0	172481.860	1.0
1139.5113	25.00	-3.65	57621.900	1.5	66395.190	2.5
1139.5150	10.00	-4.68	163708.599	2.0	172481.860	1.0
1139.5191	6.00	-5.00	79318.780	1.0	88092.010	1.0
1139.5580	6.00	-3.13	78340.280	1.0	87113.210	2.0
1139.5879	13.01	-2.09	138799.300	0.0	147572.000	1.0
1139.5995	16.00	-1.86	71350.449	1.0	80123.060	0.0
1139.6659	13.01	-4.67	138496.700	1.0	147268.800	1.0
1139.7048	29.01	.20	139710.200	2.0	148482.000	3.0
1139.7126	26.00	-4.97	45294.830	5.0	54066.570	4.0
1139.7738	7.00	-3.53	106758.731	.5	115530.000	.5
1139.7738	7.00	-3.64	106758.731	.5	115530.000	1.5
1139.8075	24.00	-1.32	26801.930	1.0	35572.940	2.0
1139.8426	26.02	-4.74	196901.270	5.0	205672.010	4.0
1139.8492	16.00	-.46	67883.208	0.0	76653.897	1.0
1139.8673	18.00	-.40	115366.900	1.0	124137.450	2.0
1139.8699	7.01	-4.37	221167.570	5.0	229938.100	5.0
1139.9115	9.02	-3.83	431432.270	1.5	440202.480	2.5
1139.9362	28.01	-3.58	112686.300	2.5	121456.320	1.5
1139.9388	30.02	-2.08	294034.300	4.0	302804.300	5.0
1139.9440	28.01	-2.16	128803.230	2.5	137573.190	3.5
1139.9505	26.00	-4.34	45913.480	3.0	54683.390	4.0
1139.9731	14.00	-1.03	54185.264	1.0	62955.000	2.0
1140.0272	16.00	-.46	67884.577	1.0	76653.897	1.0
1140.0319	16.00	-.16	67884.577	1.0	76653.861	2.0
1140.0363	18.01	-2.62	205104.320	4.5	213873.570	3.5
1140.0739	16.00	-1.39	71350.449	1.0	80119.410	1.0
1140.0948	8.02	-.91	370524.200	2.0	379293.000	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1140.1078	27.00	-3.14	44201.920	2.5	52970.620	2.5
1140.2079	21.00	-4.80	33154.010	2.5	41921.940	1.5
1140.2192	28.00	-3.67	50458.187	1.0	59226.030	1.0
1140.2505	10.00	-3.65	163707.721	1.0	172475.323	2.0
1140.3171	28.01	-2.08	109675.720	.5	118442.810	1.5
1140.3223	16.00	-1.31	67886.847	2.0	76653.897	1.0
1140.3270	16.00	-.31	67886.847	2.0	76653.861	2.0
1140.3292	16.00	.07	67886.847	2.0	76653.844	3.0
1140.3648	10.00	-3.97	163708.599	2.0	172475.323	2.0
1140.3779	11.00	-.18	16973.368	1.5	25739.991	.5
1140.3809	29.01	-1.15	137649.100	2.0	146415.700	2.0
1140.4108	27.00	-2.57	42434.230	2.5	51200.600	1.5
1140.4733	7.01	-.57	221141.610	3.0	229907.500	4.0
1140.5435	27.00	-2.87	42434.230	2.5	51199.580	3.5
1140.5513	23.00	-1.92	28462.150	2.5	37227.440	2.5
1140.5540	7.00	-2.81	106758.731	.5	115524.000	.5
1140.5540	7.00	-1.90	106758.731	.5	115524.000	1.5
1140.6147	16.00	-1.31	67889.058	3.0	76653.861	2.0
1140.6169	16.00	-.29	67889.058	3.0	76653.844	3.0
1140.6190	6.00	-4.85	78148.090	2.0	86912.860	1.0
1140.6204	16.00	.27	67889.058	3.0	76653.817	4.0
1140.6489	27.00	-4.30	46685.430	1.5	55449.970	2.5
1140.7062	13.01	-3.33	138518.700	2.0	147282.800	2.0
1140.7062	13.01	-2.60	138518.700	2.0	147282.800	1.0
1140.7062	13.01	-4.88	138518.700	2.0	147282.800	3.0
1140.7075	27.00	-4.19	42796.670	1.5	51560.760	2.5
1140.7700	20.02	-3.28	350779.470	3.0	359543.080	4.0
1140.7973	27.00	-4.25	43398.620	3.5	52162.020	3.5
1140.8207	23.00	-4.96	30635.600	2.5	39398.820	3.5
1140.8676	24.00	-3.46	48824.500	4.0	57587.360	4.0
1140.8975	23.01	-3.32	64026.600	4.0	72789.230	3.0
1140.9104	7.00	-3.39	107588.469	.5	116351.000	.5
1140.9104	7.00	-2.33	107588.469	.5	116351.000	1.5
1140.9134	10.00	-.88	150772.112	1.0	159534.620	1.0
1140.9327	18.01	-2.64	206148.940	3.5	214911.300	2.5
1140.9626	6.00	-2.74	61981.820	1.0	70743.950	1.0
1140.9669	17.00	-1.14	82918.893	2.5	91680.990	1.5
1140.9717	23.01	-2.69	30641.710	3.0	39403.770	4.0
1140.9798	26.00	-2.81	45509.112	1.0	54271.110	1.0
1141.0211	16.00	-1.18	71350.449	1.0	80112.130	2.0
1141.0404	26.00	-4.02	42532.729	3.0	51294.262	3.0
1141.0838	17.01	-3.79	150813.000	1.0	159574.200	2.0
1141.1371	28.01	-2.67	104646.520	3.5	113407.310	2.5
1141.1658	24.00	-2.99	37205.880	3.0	45966.450	2.0
1141.2075	28.01	-3.26	121227.800	2.5	129988.050	2.5
1141.2270	13.01	-3.18	138811.900	1.0	147572.000	1.0
1141.2270	13.01	-2.97	138811.900	1.0	147572.000	0.0
1141.2270	13.01	-4.27	138811.900	1.0	147572.000	2.0
1141.2270	13.01	-2.70	138811.900	2.0	147572.000	1.0
1141.2270	13.01	-3.09	138811.900	2.0	147572.000	2.0
1141.2270	13.01	-2.34	138811.900	3.0	147572.000	2.0
1141.2570	18.01	-2.53	205100.530	5.5	213860.400	4.5
1141.3313	21.00	-4.99	29096.200	3.5	37855.500	2.5
1141.3938	18.01	-2.64	205100.530	5.5	213859.350	4.5
1141.4081	18.01	-.82	205100.530	5.5	213859.240	5.5
1141.4131	9.00	-.51	117308.558	1.5	126067.230	.5
1141.4511	22.00	-3.30	36065.750	3.0	44824.130	2.0
1141.4733	28.01	-4.41	103025.580	2.5	111783.790	3.5
1141.4772	26.01	-.32	78843.720	.5	87601.900	1.5
1141.4864	7.01	-3.78	196592.070	1.0	205350.180	2.0
1141.4876	24.00	-3.05	35501.260	3.0	44259.360	3.0
1141.5059	21.00	-4.76	29022.870	2.5	37780.830	1.5
1141.5215	27.00	-3.49	43398.620	3.5	52156.460	4.5
1141.5698	25.00	-3.53	51638.170	2.5	60395.640	1.5
1141.6193	6.00	-2.51	78199.070	2.0	86956.160	1.0
1141.6310	13.01	-1.62	139916.700	1.0	148673.700	1.0
1141.6427	10.01	-2.48	283894.410	.5	292651.320	1.5
1141.6662	28.01	-3.53	128818.410	6.5	137575.140	5.5
1141.6749	7.00	-3.18	106778.337	1.5	115535.000	2.5
1141.7112	22.00	-4.44	20126.055	3.0	28882.440	3.0
1141.7366	24.00	-3.06	37244.170	4.0	46000.360	3.0
1141.7510	18.01	-4.19	205104.320	4.5	213860.400	4.5
1141.8005	29.01	-3.66	130386.400	2.0	139142.100	2.0
1141.8631	28.01	-3.93	120211.300	5.5	128966.520	4.5
1141.8631	28.01	-3.56	120211.300	5.5	128966.520	5.5
1141.8746	8.00	-2.34	99680.968	1.0	108436.100	1.0
1141.8852	8.00	-2.12	99681.049	2.0	108436.100	1.0
1141.8879	18.01	-.90	205104.320	4.5	213859.350	4.5
1141.9023	18.01	-2.60	205104.320	4.5	213859.240	5.5
1141.9075	28.01	-2.95	120203.490	2.5	128958.370	3.5
1141.9191	8.00	-2.82	99681.309	0.0	108436.100	1.0
1141.9614	14.00	-2.91	53387.334	1.0	62141.800	1.0
1141.9961	8.01	-2.46	265985.000	3.5	274739.200	2.5
1142.0000	22.00	-4.84	18911.399	2.0	27665.570	1.0
1142.0079	21.00	-3.30	32751.540	3.5	41505.650	2.5
1142.1051	7.00	-2.70	106868.635	3.5	115622.000	2.5
1142.1097	28.01	-4.79	120211.300	5.5	128964.630	4.5
1142.1802	10.01	-.03	294086.490	1.5	302839.280	2.5
1142.2335	26.00	-3.03	17726.985	2.0	26479.366	1.0
1142.2415	6.00	-2.16	78249.940	4.0	87002.260	3.0
1142.3016	18.01	-.22	206245.570	3.5	214997.430	4.5
1142.3273	7.00	-3.83	106778.337	1.5	115530.000	.5
1142.3273	7.00	-2.60	106778.337	1.5	115530.000	1.5
1142.3837	18.01	-1.77	206245.570	3.5	214996.800	3.5
1142.3876	8.01	-.77	265988.000	2.5	274739.200	2.5
1142.4203	25.01	-4.98	62572.200	2.0	71323.150	2.0
1142.4882	6.00	-4.62	79310.850	2.0	88061.280	1.0
1142.5195	28.01	-3.51	120189.550	.5	128939.740	1.5
1142.5522	6.00	-2.20	78215.510	3.0	86965.450	2.0
1142.5561	14.00	-2.66	54205.090	2.0	62955.000	2.0
1142.5979	28.01	-2.76	128818.410	6.5	137568.000	7.5
1142.6175	28.01	-3.38	120211.300	5.5	128960.740	5.5
1142.6175	28.01	-4.16	120211.300	5.5	128960.740	6.5
1142.6201	21.00	-4.83	25014.150	2.5	33763.570	1.5
1142.6240	28.01	-4.54	121385.800	1.5	130135.190	1.5
1142.6266	14.00	-1.26	54205.090	2.0	62954.460	3.0
1142.6273	7.00	-2.90	106868.635	3.5	115618.000	2.5
1142.6331	27.00	-4.15	42811.440	3.5	51560.760	2.5
1142.6462	25.01	-4.67	73395.120	3.0	82144.340	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1142.7572	25.01	-4.93	73395.970	2.0	82144.340	3.0
1142.7664	28.01	-4.10	120218.220	6.5	128966.520	5.5
1142.7976	20.00	-3.98	39335.322	1.0	48083.383	2.0
1142.8160	23.00	-1.76	28368.760	1.5	37116.680	.5
1142.8382	18.01	-.47	186074.350	2.5	194822.100	3.5
1142.8568	26.00	-4.09	43022.969	4.0	51770.577	3.0
1142.8618	14.00	-2.07	54871.031	1.0	63618.600	0.0
1142.8865	28.01	-3.44	120203.490	2.5	128950.870	3.5
1142.9166	28.01	-4.09	121240.900	3.5	129988.050	2.5
1142.9689	20.01	-1.29	78034.390	3.5	86781.140	3.5
1142.9689	20.01	.25	78034.390	3.5	86781.140	4.5
1142.9689	20.01	.14	78034.390	2.5	86781.140	3.5
1142.9834	26.00	-4.88	48036.667	2.0	56783.306	3.0
1143.0146	13.01	-2.40	138536.400	3.0	147282.800	2.0
1143.0146	13.01	-3.30	138536.400	3.0	147282.800	3.0
1143.0251	7.00	-2.22	95475.280	.5	104221.600	1.5
1143.0538	30.02	-2.99	294123.700	3.0	302869.800	3.0
1143.0593	26.00	-3.27	45220.662	3.0	53966.720	2.0
1143.0617	28.01	-1.60	128827.150	3.5	137573.190	3.5
1143.0617	28.01	-1.32	128827.150	3.5	137573.190	4.5
1143.1109	7.00	-3.07	106778.337	1.5	115524.000	.5
1143.1109	7.00	-2.87	106778.337	1.5	115524.000	1.5
1143.1109	7.00	-1.95	106778.337	1.5	115524.000	2.5
1143.1358	26.00	-2.73	44415.057	4.0	53160.530	3.0
1143.1570	10.01	-.78	294086.490	1.5	302831.800	.5
1143.1570	18.01	-2.29	201781.790	2.5	210527.100	2.5
1143.1806	28.01	-3.41	120199.180	1.5	128944.310	2.5
1143.2094	28.01	-4.37	107082.210	2.5	115827.120	3.5
1143.2773	26.00	-2.77	42859.756	2.0	51604.146	3.0
1143.3231	18.01	-2.95	201720.670	1.5	210464.710	2.5
1143.3558	7.01	-3.70	221163.710	4.0	229907.500	4.0
1143.4195	20.00	-4.15	39340.080	2.0	48083.383	2.0
1143.4551	6.00	-3.32	80782.510	1.0	89525.540	1.0
1143.4957	24.00	-4.82	42292.960	1.0	51035.680	2.0
1143.5219	28.01	-3.98	120218.220	6.5	128960.740	5.5
1143.5219	28.01	-3.11	120218.220	6.5	128960.740	6.5
1143.5245	6.00	-4.69	79318.780	1.0	88061.280	1.0
1143.5794	28.01	-2.01	110573.360	2.5	119315.440	2.5
1143.6309	17.00	-.23	82918.893	2.5	91660.580	2.5
1143.6462	18.01	-.33	206255.230	2.5	214996.800	3.5
1143.6605	24.00	-3.48	46077.090	1.0	54818.550	2.0
1143.7037	20.02	-4.20	350779.470	3.0	359520.600	2.0
1143.7103	25.01	-4.07	73395.120	3.0	82136.200	4.0
1143.7247	28.01	.51	128827.050	7.5	137568.020	8.5
1143.7273	28.01	-.39	128827.050	7.5	137568.000	7.5
1143.7338	29.01	-1.32	139741.100	3.0	148482.000	3.0
1143.7351	28.01	.46	130187.810	6.5	138928.700	7.5
1143.7443	28.01	-2.86	120203.490	2.5	128944.310	2.5
1143.7783	28.01	-3.28	120199.180	1.5	128939.740	1.5
1143.8254	8.01	-1.10	265999.000	3.5	274739.200	2.5
1143.8342	22.00	-4.95	28882.440	3.0	37622.573	3.0
1143.8420	26.00	-2.71	44415.057	4.0	53155.130	4.0
1143.8529	24.01	-4.92	59130.510	1.5	67870.500	1.5
1143.8607	7.01	-3.90	221167.570	5.0	229907.500	4.0
1143.8660	6.00	-4.64	80782.510	1.0	89522.400	2.0
1143.8673	26.02	-4.94	213974.420	6.0	222714.300	6.0
1143.9039	15.01	-1.03	129570.400	1.0	138310.000	2.0
1143.9128	26.00	-2.13	22946.810	1.0	31686.342	2.0
1143.9707	26.02	-3.45	193595.300	0.0	202334.390	1.0
1144.0195	7.00	-3.98	107628.283	1.5	116367.000	.5
1144.0195	7.00	-4.88	107628.283	1.5	116367.000	1.5
1144.0195	7.00	-1.92	107628.283	1.5	116367.000	2.5
1144.0493	27.00	-3.66	45688.150	2.5	54426.640	1.5
1144.1014	22.00	-4.63	18287.560	4.0	27025.652	4.0
1144.1095	28.01	-1.47	128837.110	5.5	137575.140	5.5
1144.1265	14.02	-.36	249093.500	1.0	257831.400	2.0
1144.1273	7.00	-2.04	107253.106	2.5	115991.000	2.5
1144.1449	20.02	-2.35	350805.320	4.0	359543.080	4.0
1144.1824	18.00	-.95	106237.597	2.0	114975.070	1.0
1144.1867	22.00	-2.19	25797.600	3.0	34535.040	2.0
1144.2077	23.00	-4.30	29202.800	1.5	37940.080	.5
1144.2338	6.00	-3.93	78340.280	1.0	87077.360	0.0
1144.2535	21.00	-2.05	33278.640	3.5	42015.570	3.5
1144.2582	7.00	-3.61	107253.106	2.5	115990.000	1.5
1144.2582	7.00	-3.64	107253.106	2.5	115990.000	2.5
1144.2706	25.00	-2.18	47753.990	2.5	56490.790	2.5
1144.2915	24.00	-2.19	48636.140	3.0	57372.780	4.0
1144.3426	28.01	-3.33	120203.490	2.5	128939.740	1.5
1144.3478	28.01	-3.97	106133.140	1.5	114869.350	1.5
1144.3649	28.01	-1.21	128837.110	5.5	137573.190	4.5
1144.4461	6.01	-1.29	178955.940	3.5	187691.400	3.5
1144.4461	6.01	.25	178955.940	3.5	187691.400	4.5
1144.4461	6.01	.14	178955.940	2.5	187691.400	3.5
1144.5154	28.00	-2.55	49032.589	2.0	57767.520	1.0
1144.5495	6.00	-.02	77679.820	2.0	86414.490	3.0
1144.5522	26.02	-3.10	193599.740	1.0	202334.390	1.0
1144.5865	28.00	-3.85	47139.392	2.0	55873.780	2.0
1144.6269	16.01	-1.83	119242.130	1.5	127976.210	1.5
1144.6269	14.00	-1.25	50054.800	4.0	58788.880	4.0
1144.6295	28.01	-3.84	97273.830	2.5	106007.890	2.5
1144.6623	23.01	-3.83	63816.900	3.0	72550.710	4.0
1144.7554	29.01	-3.17	130386.400	2.0	139119.500	3.0
1144.8117	23.00	-3.37	30864.340	5.5	39597.010	4.5
1144.8366	27.00	-3.61	40345.950	2.5	49078.430	1.5
1144.8694	6.00	-1.46	77679.820	2.0	86412.050	2.0
1144.8786	6.00	-.28	77679.820	2.0	86411.980	3.0
1144.8917	14.00	-2.68	50054.800	4.0	58786.860	3.0
1144.9205	23.01	-4.82	64057.390	3.0	72789.230	3.0
1144.9929	26.00	-4.89	49242.872	3.0	57974.160	2.0
1145.0058	18.01	-2.53	201781.790	2.5	210512.980	1.5
1145.0678	7.00	-2.44	107628.283	1.5	116359.000	2.5
1145.0740	14.00	-1.46	54205.090	2.0	62935.760	3.0
1145.0845	28.01	-4.26	107737.810	1.5	116468.400	1.5
1145.0976	10.01	-.98	294086.490	1.5	302816.980	1.5
1145.1920	28.00	-3.58	50142.800	3.0	58872.570	4.0
1145.2943	18.01	-1.18	206245.570	3.5	214974.560	3.5
1145.3022	18.01	-2.62	206245.570	3.5	214974.500	2.5
1145.3097	22.00	-4.19	27480.047	3.0	36208.920	4.0
1145.3274	14.00	-2.20	54257.582	3.0	62986.320	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1145.3718	26.02	-3.21	193605.990	2.0	202334.390	1.0
1145.3967	22.00	-1.77	35652.950	3.0	44381.160	4.0
1145.4151	28.01	-3.42	107142.210	1.5	115870.280	2.5
1145.4313	20.00	-3.94	37751.867	2.0	46479.813	1.0
1145.4321	7.00	-2.72	95493.660	1.5	104221.600	1.5
1145.4335	28.01	-2.41	120218.220	6.5	128946.150	7.5
1145.4348	6.00	-2.73	80782.510	1.0	89510.430	2.0
1145.4768	24.00	-3.36	46077.090	1.0	54804.690	1.0
1145.4899	14.02	-1.10	249103.900	2.0	257831.400	2.0
1145.4899	14.02	-.19	249103.900	2.0	257831.400	3.0
1145.5503	24.00	-3.04	35572.940	2.0	44299.980	2.0
1145.5844	27.00	-2.65	43537.710	1.5	52264.490	1.5
1145.6277	23.00	-1.41	28595.640	3.5	37322.090	3.5
1145.6500	18.01	-4.78	187589.230	2.5	196315.510	2.5
1145.7078	28.01	-1.06	129396.040	5.5	138121.880	4.5
1145.8050	24.00	-2.44	48636.140	3.0	57361.240	3.0
1145.8475	28.00	-4.04	40361.254	3.0	49086.030	4.0
1145.9141	7.00	-2.79	106758.731	.5	115483.000	.5
1145.9141	7.00	-3.09	106758.731	.5	115483.000	1.5
1145.9626	15.01	-.34	130020.400	3.0	138744.300	3.0
1146.0020	13.01	-2.21	138559.200	4.0	147282.800	3.0
1146.0111	7.00	-3.20	107588.469	.5	116312.000	.5
1146.0111	7.00	-4.10	107588.469	.5	116312.000	1.5
1146.0256	24.00	-4.68	46081.270	0.0	54804.690	1.0
1146.0467	27.00	-3.67	43911.360	1.5	52634.620	.5
1146.0900	22.00	-4.11	25605.030	0.0	34327.960	1.0
1146.1032	28.01	.33	120144.170	2.5	128867.000	3.5
1146.1180	7.00	-3.70	107628.283	1.5	116351.000	.5
1146.1180	7.00	-2.77	107628.283	1.5	116351.000	1.5
1146.1347	27.00	-3.75	43398.620	3.5	52121.210	4.5
1146.1846	26.00	-4.61	45833.240	4.0	54555.450	4.0
1146.2254	23.01	-3.54	64229.100	5.0	72951.000	4.0
1146.2556	27.00	-4.82	46685.430	1.5	55407.100	1.5
1146.2582	24.00	-4.92	27176.220	1.0	35897.870	2.0
1146.2806	22.00	-4.13	40302.950	3.0	49024.430	3.0
1146.2884	28.01	-3.34	120222.890	1.5	128944.310	2.5
1146.3083	7.00	-2.53	106758.731	.5	115480.000	.5
1146.3083	7.00	-3.92	106758.731	.5	115480.000	1.5
1146.3134	28.01	-.09	128853.910	4.5	137575.140	5.5
1146.3266	6.00	-3.31	80801.270	2.0	89522.400	2.0
1146.3714	28.00	-3.55	42585.296	4.0	51306.085	3.0
1146.3936	18.01	-1.66	182222.030	1.5	190942.650	.5
1146.4039	7.00	-2.96	106814.459	2.5	115535.000	2.5
1146.4039	7.00	-2.75	106814.459	2.5	115535.000	3.5
1146.4554	27.00	-4.66	46562.870	1.5	55283.020	2.5
1146.4890	7.00	-3.25	107253.106	2.5	115973.000	1.5
1146.5303	15.00	-1.42	67113.820	2.5	75833.400	2.5
1146.5319	14.00	-2.43	50054.800	4.0	58774.368	3.0
1146.5356	28.01	-1.14	128855.600	6.5	137575.140	5.5
1146.5632	18.01	-2.53	206255.230	2.5	214974.560	3.5
1146.5645	28.01	-.16	128853.870	2.5	137573.190	3.5
1146.5698	28.01	-1.60	128853.910	4.5	137573.190	3.5
1146.5698	28.01	-.73	128853.910	4.5	137573.190	4.5
1146.5711	18.01	-1.32	206255.230	2.5	214974.500	2.5
1146.5787	7.00	-1.98	107182.788	1.5	115902.000	2.5
1146.6066	10.03	-.54	633465.000	.5	642184.000	1.5
1146.6618	27.00	-2.80	46186.410	1.5	54904.990	2.5
1146.6618	27.00	-4.88	23152.570	3.5	31871.150	3.5
1146.6884	7.00	-3.59	107445.622	1.5	116164.000	.5
1146.6884	7.00	-2.92	107445.622	1.5	116164.000	1.5
1146.6884	7.00	-2.43	107445.622	1.5	116164.000	2.5
1146.7545	18.00	-1.33	106087.305	1.0	114805.180	2.0
1146.7565	6.00	-2.84	80801.270	2.0	89519.130	3.0
1146.8697	15.01	-.44	129110.600	1.0	137827.600	1.0
1146.8894	28.01	-3.18	120222.890	1.5	128939.740	1.5
1146.9314	7.00	-3.67	107588.469	.5	116305.000	1.5
1146.9314	7.00	-3.58	107588.469	.5	116305.000	.5
1146.9552	22.01	-4.12	53554.900	2.5	62271.250	2.5
1146.9552	28.01	-3.31	120250.170	3.5	128966.520	4.5
1146.9657	25.00	-1.24	47774.520	3.5	56490.790	2.5
1147.0263	18.01	.20	187589.230	2.5	196305.040	3.5
1147.0617	7.00	-3.48	106814.459	2.5	115530.000	1.5
1147.0960	26.00	-4.81	49804.900	3.0	58520.180	4.0
1147.1974	24.00	-2.93	48636.140	3.0	57350.650	2.0
1147.2040	28.01	-3.30	120250.170	3.5	128964.630	4.5
1147.2922	6.00	-3.07	78199.070	2.0	86912.860	1.0
1147.2961	24.00	-1.19	26787.500	3.0	35501.260	3.0
1147.3119	28.01	-2.48	120211.300	5.5	128924.940	6.5
1147.3132	28.01	-4.14	120199.180	1.5	128912.810	2.5
1147.3211	18.01	-1.46	190732.970	.5	199446.540	.5
1147.3464	7.00	-3.42	107445.622	1.5	116159.000	2.5
1147.3559	14.00	-3.45	48020.074	1.0	56733.380	0.0
1147.3601	9.00	-.12	117164.006	2.5	125877.280	1.5
1147.4423	28.01	-.33	128862.490	4.5	137575.140	5.5
1147.4440	26.00	-4.32	48928.423	2.0	57641.060	3.0
1147.4752	28.01	.39	128855.600	6.5	137568.000	7.5
1147.5332	28.01	.40	131122.280	5.5	139834.240	6.5
1147.5516	18.01	-4.69	206120.350	2.5	214832.170	3.5
1147.5621	21.00	-1.63	17012.980	2.5	25724.720	3.5
1147.5648	27.00	-4.61	45971.190	3.5	54682.910	4.5
1147.6587	28.00	-3.52	49032.589	2.0	57743.596	3.0
1147.6718	14.00	-2.86	54257.582	3.0	62968.490	4.0
1147.6781	18.01	-.49	205180.360	.5	213891.220	1.5
1147.6860	10.01	.42	283322.350	1.5	292033.150	2.5
1147.6992	28.01	-1.17	128862.490	4.5	137573.190	3.5
1147.6992	28.01	-.33	128862.490	4.5	137573.190	4.5
1147.7018	27.00	-3.78	46454.950	1.5	55165.630	2.5
1147.7280	10.00	-2.99	161607.261	2.0	170317.742	2.0
1147.7382	26.00	-4.58	42859.756	2.0	51570.160	3.0
1147.7387	12.01	-1.07	105622.340	.5	114332.740	1.5
1147.7417	10.00	-1.84	161607.261	2.0	170317.638	3.0
1147.7572	14.02	-2.63	249121.140	3.0	257831.400	2.0
1147.7572	14.02	-1.09	249121.140	3.0	257831.400	3.0
1147.7572	14.02	-.02	249121.140	3.0	257831.400	4.0
1147.8309	28.01	.39	120144.170	2.5	128853.870	2.5
1147.8402	6.00	-2.47	80801.270	2.0	89510.900	3.0
1147.8519	7.00	-1.82	106814.459	2.5	115524.000	3.5
1147.8733	7.00	-2.72	107445.622	1.5	116155.000	.5
1147.8733	7.00	-3.70	107445.622	1.5	116155.000	1.5
1147.8810	28.01	-3.14	120203.490	2.5	128912.810	2.5
1147.8836	15.01	-.31	102799.200	1.0	111508.500	0.0
1147.8850	24.00	-2.62	46109.260	2.0	54818.550	2.0
1147.9021	6.00	-2.93	80801.270	2.0	89510.430	2.0
1147.9638	26.00	-4.00	40534.180	3.0	49242.872	3.0
1147.9891	26.00	-3.95	40534.180	3.0	49242.680	2.0
1147.9944	20.02	-4.92	374143.840	3.0	382852.300	2.0
1148.0089	24.00	-4.40	36577.730	4.0	45286.080	4.0
1148.0202	9.00	-.35	117872.916	1.5	126581.180	.5
1148.0286	28.01	-3.54	120250.170	3.5	128958.370	3.5
1148.0814	8.02	-2.52	370524.200	2.0	379232.000	1.0
1148.1209	23.00	-3.95	29296.430	2.5	38003.930	1.5
1148.2238	28.01	-4.39	120218.220	6.5	128924.940	7.5
1148.2238	28.01	-4.13	120218.220	6.5	128924.940	6.5
1148.2765	18.01	-1.43	190106.230	1.5	198812.550	2.5
1148.2908	7.00	-4.24	107182.788	1.5	115889.000	.5
1148.2908	7.00	-2.73	107182.788	1.5	115889.000	1.5
1148.2937	28.01	-.22	128867.000	3.5	137573.190	3.5
1148.2937	28.01	.01	128867.000	3.5	137573.190	4.5
1148.3148	25.00	-3.93	45754.270	3.5	54460.300	2.5
1148.3913	24.00	-3.80	45966.450	2.0	54671.900	1.0
1148.4177	28.01	-.12	128869.890	5.5	137575.140	5.5
1148.4383	26.00	-4.44	49108.876	4.0	57813.970	3.0
1148.4533	24.00	-.90	26796.280	2.0	35501.260	3.0
1148.4952	7.00	-2.79	106778.337	1.5	115483.000	.5
1148.4952	7.00	-2.28	106778.337	1.5	115483.000	1.5
1148.4952	7.00	-3.36	106778.337	1.5	115483.000	2.5
1148.5193	23.00	-3.56	30694.340	3.5	39398.820	3.5
1148.5430	27.00	-4.67	46685.430	1.5	55389.730	1.5
1148.5547	7.00	-4.53	107182.788	1.5	115887.000	.5
1148.5547	7.00	-2.95	107182.788	1.5	115887.000	1.5
1148.5547	7.00	-2.14	107182.788	1.5	115887.000	2.5
1148.5812	14.00	-1.91	50189.389	2.0	58893.400	3.0
1148.5827	15.00	-1.13	64239.500	.5	72943.500	.5
1148.6362	26.00	-4.70	46672.523	0.0	55376.117	1.0
1148.6499	28.01	-3.88	127885.860	4.5	136589.350	3.5
1148.6644	24.00	-4.58	36552.130	3.0	45255.510	3.0
1148.6750	30.02	-4.26	294123.700	3.0	302827.000	2.0
1148.6750	28.01	-4.18	128869.890	5.5	137573.190	4.5
1148.7119	12.01	-1.77	105629.720	1.5	114332.740	1.5
1148.7199	12.01	-.82	105629.720	1.5	114332.680	2.5
1148.7865	22.00	-4.59	20126.055	3.0	28828.510	2.0
1148.8070	28.01	-.81	129419.580	4.5	138121.880	4.5
1148.8104	18.00	-1.95	95399.870	1.0	104102.144	1.0
1148.8911	7.00	-2.53	106778.337	1.5	115480.000	.5
1148.8911	7.00	-3.11	106778.337	1.5	115480.000	1.5
1148.9100	11.00	-2.17	30266.990	.5	38968.510	.5
1148.9298	28.01	-4.45	101144.630	3.5	109846.000	3.5
1149.0182	28.01	-3.04	120250.170	3.5	128950.870	3.5
1149.1754	18.01	-2.68	206132.660	4.5	214832.170	3.5
1149.1767	28.01	-2.23	112686.300	2.5	121385.800	1.5
1149.3487	20.00	-2.73	39333.382	0.0	48031.580	1.0
1149.3870	20.00	-2.40	39335.322	1.0	48033.230	2.0
1149.3947	28.01	-.55	129424.030	5.5	138121.880	4.5
1149.4132	28.01	-4.14	120268.810	3.5	128966.520	4.5
1149.4518	14.00	-3.23	54257.582	3.0	62955.000	2.0
1149.4555	18.01	-4.49	205194.040	1.5	213891.430	2.5
1149.4701	14.00	-2.47	54528.220	2.0	63225.500	2.0
1149.4833	18.01	-1.20	205194.040	1.5	213891.220	1.5
1149.4924	26.00	-3.04	40231.312	2.0	48928.423	2.0
1149.5232	14.00	-2.28	54257.582	3.0	62954.460	3.0
1149.5890	27.00	-4.17	43398.620	3.5	52095.000	3.5
1149.6052	20.00	-2.82	39335.322	1.0	48031.580	1.0
1149.6115	23.00	-1.58	28462.150	2.5	37158.360	1.5
1149.6218	20.00	-2.12	39340.080	2.0	48036.212	3.0
1149.6287	28.01	-3.60	120270.440	5.5	128966.520	5.5
1149.6419	18.01	-1.66	201781.790	2.5	210477.770	3.5
1149.6472	17.00	-.58	92194.190	1.5	100890.130	2.5
1149.6486	11.00	-1.87	30272.580	1.5	38968.510	.5
1149.6631	28.01	-3.78	120268.810	3.5	128964.630	4.5
1149.6644	23.00	-5.45	14514.750	1.5	23210.560	2.5
1149.7146	24.00	-3.26	46109.260	2.0	54804.690	1.0
1149.7252	28.01	-4.78	121146.980	2.5	129842.330	2.5
1149.7411	25.00	-2.05	41403.930	2.5	50099.160	1.5
1149.8204	6.00	-3.01	78307.630	2.0	87002.260	3.0
1149.8786	28.01	-4.00	120270.440	5.5	128964.630	4.5
1149.8852	28.01	-3.86	120250.170	3.5	128944.310	2.5
1149.9011	28.01	-4.06	127895.330	3.5	136589.350	3.5
1149.9051	28.01	-4.93	120272.530	4.5	128966.520	5.5
1149.9051	28.01	-3.75	120272.530	4.5	128966.520	4.5
1150.0022	18.00	-3.12	116660.054	1.0	125353.310	1.0
1150.0162	20.00	-2.79	39340.080	2.0	48033.230	2.0
1150.0298	17.00	-2.84	74225.846	1.5	82918.893	2.5
1150.0387	26.00	-2.55	40534.180	3.0	49227.160	3.0
1150.1392	22.00	-3.21	25635.740	1.0	34327.960	1.0
1150.1418	15.00	-3.51	68183.200	1.5	76875.400	1.5
1150.1551	28.01	-4.94	120272.530	4.5	128964.630	4.5
1150.2054	25.01	-4.86	62572.200	2.0	71263.920	1.0
1150.2080	19.02	-3.57	242165.300	1.5	250857.000	.5
1150.2345	20.00	-3.91	39340.080	2.0	48031.580	1.0
1150.2697	14.00	-1.21	50499.838	2.0	59191.072	2.0
1150.2848	24.00	-4.96	38537.680	5.0	47228.800	5.0
1150.3483	18.01	-.62	186340.480	1.5	195031.120	2.5
1150.3507	14.00	-2.15	50499.838	2.0	59190.460	1.0
1150.3933	28.01	-3.92	120270.440	5.5	128960.740	5.5
1150.4397	27.00	-4.87	46260.020	1.5	54949.970	1.5
1150.4913	28.01	-3.86	120268.810	3.5	128958.370	3.5
1150.5018	7.00	-2.19	95532.120	2.5	104221.600	1.5
1150.5787	13.01	-.79	138811.900	3.0	147500.800	4.0
1150.6131	6.00	-2.09	78529.620	3.0	87218.260	2.0
1150.6144	21.00	-3.02	31172.620	1.5	39861.250	2.5
1150.6250	18.01	-1.44	200234.860	2.5	208923.410	2.5
1150.6581	13.01	-1.32	138811.900	2.0	147500.200	3.0
1150.6581	13.01	-2.22	138811.900	3.0	147500.200	3.0
1150.6701	28.01	-4.79	120272.530	4.5	128960.740	5.5
1150.6780	23.00	-3.93	29418.170	3.5	38106.320	2.5
1150.7111	13.01	-1.85	138811.900	2.0	147499.800	2.0
1150.7111	13.01	-1.12	138811.900	1.0	147499.800	2.0
1150.7111	13.01	-3.40	138811.900	3.0	147499.800	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1150.7257	6.00	-3.34	80834.610	3.0	89522.400	2.0
1150.7641	13.01	-.37	133914.100	2.0	142601.600	3.0
1150.8409	27.00	-3.04	23184.230	2.5	31871.150	3.5
1150.8429	28.00	-3.19	40484.282	2.0	49171.187	1.0
1150.8449	21.00	-4.68	31215.760	2.5	39902.650	3.5
1150.9072	24.00	-3.90	35572.940	2.0	44259.360	3.0
1150.9178	18.01	-1.08	200234.860	2.5	208921.200	1.5
1150.9840	28.01	-4.39	120272.530	4.5	128958.370	3.5
1151.0079	24.00	-2.75	35501.260	3.0	44186.920	2.0
1151.0410	28.01	-3.45	120281.110	4.5	128966.520	5.5
1151.0410	28.01	-4.87	120281.110	4.5	128966.520	4.5
1151.0635	27.00	-3.81	44658.030	1.5	53343.270	1.5
1151.0904	28.00	-2.66	42621.048	3.0	51306.085	3.0
1151.1006	28.01	-4.19	113177.610	3.5	121862.570	3.5
1151.1081	26.00	-3.80	45281.816	2.0	53966.720	2.0
1151.1285	18.00	-2.75	115366.900	1.0	124051.650	2.0
1151.1351	30.02	-4.04	294123.700	3.0	302808.400	4.0
1151.1590	6.00	-3.08	80834.610	3.0	89519.130	3.0
1151.2265	6.00	-2.11	78318.250	3.0	87002.260	3.0
1151.2279	15.01	-.53	129626.000	1.0	138310.000	2.0
1151.2654	7.00	-3.51	107628.283	1.5	116312.000	.5
1151.2654	7.00	-3.42	107628.283	1.5	116312.000	1.5
1151.2915	28.01	-3.85	120281.110	4.5	128964.630	4.5
1151.2942	13.01	-4.50	133679.300	3.0	142362.800	2.0
1151.3300	18.01	-4.66	206148.940	3.5	214832.170	3.5
1151.3631	28.01	-1.51	120144.170	2.5	128827.150	3.5
1151.3711	18.01	-1.78	201781.790	2.5	210464.710	2.5
1151.4414	21.00	-4.47	31275.320	3.5	39957.710	4.5
1151.4639	21.00	-3.55	33278.640	3.5	41960.860	2.5
1151.4825	28.01	-3.63	127991.560	3.5	136673.640	4.5
1151.4851	28.01	-4.04	120268.810	3.5	128950.870	3.5
1151.4931	10.03	-.14	633790.000	1.5	642472.000	2.5
1151.5580	16.01	-1.76	119294.700	2.5	127976.210	1.5
1151.5594	30.02	-2.67	294188.300	2.0	302869.800	3.0
1151.5634	24.00	-2.92	35618.510	1.0	44299.980	2.0
1151.6091	10.00	-2.24	161636.617	1.0	170317.742	2.0
1151.6165	27.00	-3.12	44183.340	4.5	52864.410	4.5
1151.6311	28.01	-3.95	122120.370	5.5	130801.330	4.5
1151.7351	14.00	-4.23	48020.074	1.0	56700.250	1.0
1151.7446	26.00	-3.46	37046.000	4.0	45726.104	5.0
1151.7903	18.01	-.23	205194.040	1.5	213873.800	2.5
1151.8075	28.01	-3.73	120281.110	4.5	128960.740	5.5
1151.8095	10.00	-2.82	163401.301	0.0	172080.916	1.0
1151.8609	14.00	-.61	54257.582	3.0	62936.810	4.0
1151.8752	18.01	-3.02	196621.880	3.5	205301.000	2.5
1151.8955	26.00	-3.54	49135.003	3.0	57813.970	3.0
1151.9044	28.01	-4.88	120271.970	2.5	128950.870	3.5
1151.9283	56.01	-1.02	61336.000	0.0	70017.096	0.0
1151.9635	22.00	-4.23	27418.015	2.0	36096.470	3.0
1151.9737	7.00	-3.56	107445.622	1.5	116124.000	.5
1151.9737	7.00	-2.86	107445.622	1.5	116124.000	1.5
1151.9737	7.00	-2.88	107445.622	1.5	116124.000	2.5
1152.0002	14.00	-1.87	54257.582	3.0	62935.760	3.0
1152.0159	28.01	.03	120144.170	2.5	128822.230	1.5
1152.0217	22.00	-4.16	37852.434	4.0	46530.450	4.0
1152.1009	25.00	-2.80	51718.220	1.5	60395.640	1.5
1152.1009	21.00	-2.65	31350.810	4.5	40028.230	5.5
1152.1234	22.00	-1.77	35577.140	2.0	44254.390	3.0
1152.1942	7.00	-2.98	107628.283	1.5	116305.000	1.5
1152.1942	7.00	-3.89	107628.283	1.5	116305.000	.5
1152.2018	26.02	-4.97	193605.990	2.0	202282.650	2.0
1152.2208	12.00	-3.62	49346.729	1.0	58023.246	2.0
1152.2233	26.00	-3.66	26105.908	6.0	34782.406	5.0
1152.2469	24.00	-4.18	46298.320	1.0	54974.640	2.0
1152.2510	6.00	-2.25	80834.610	3.0	89510.900	3.0
1152.2746	10.00	-.40	150858.508	2.0	159534.620	1.0
1152.2809	26.00	-3.18	45595.046	0.0	54271.110	1.0
1152.3133	6.00	-3.72	80834.610	3.0	89510.430	2.0
1152.3426	28.01	-3.37	94067.140	1.5	102742.740	1.5
1152.3531	26.00	-3.64	43079.013	1.0	51754.534	1.0
1152.3558	28.01	-4.74	120268.810	3.5	128944.310	2.5
1152.3705	23.01	-4.91	64603.530	3.0	73278.920	4.0
1152.3850	9.00	-.55	117391.950	.5	126067.230	.5
1152.4518	28.00	-2.69	40484.282	2.0	49159.060	2.0
1152.4626	18.00	-3.38	116660.054	1.0	125334.750	0.0
1152.4820	22.01	-4.55	53596.700	1.5	62271.250	2.5
1152.4914	18.00	-2.18	115366.900	1.0	124041.380	2.0
1152.5020	10.00	-.60	150121.592	1.0	158795.992	1.0
1152.5153	18.00	-2.43	115366.900	1.0	124041.200	1.0
1152.5231	26.00	-3.55	45562.959	3.0	54237.200	4.0
1152.5711	24.00	-4.60	48661.590	3.0	57335.470	4.0
1152.5950	29.01	-2.55	110365.980	2.0	119039.680	2.0
1152.6242	22.00	-3.06	37976.780	2.0	46650.260	3.0
1152.7398	23.00	-1.06	28768.130	4.5	37440.740	4.5
1152.7757	28.01	-4.23	120271.970	2.5	128944.310	2.5
1152.7904	28.01	-4.63	100475.820	3.5	109148.050	4.5
1152.7927	7.00	-2.42	107182.788	1.5	115855.000	.5
1152.7927	7.00	-3.72	107182.788	1.5	115855.000	1.5
1152.8263	6.00	-3.15	78293.490	1.0	86965.450	2.0
1152.8568	26.02	-4.76	193610.920	3.0	202282.650	2.0
1152.9034	27.00	-4.23	43398.620	3.5	52070.000	2.5
1152.9313	17.00	-2.20	92194.190	1.5	100865.360	1.5
1152.9557	26.00	-3.56	45333.834	2.0	54004.820	3.0
1152.9767	14.00	-3.22	48020.074	1.0	56690.903	2.0
1153.0162	7.00	-3.26	107588.469	.5	116259.000	.5
1153.0162	7.00	-3.87	107588.469	.5	116259.000	1.5
1153.0656	28.01	-3.15	121317.890	3.5	129988.050	2.5
1153.1188	28.01	-4.09	120281.110	4.5	128950.870	3.5
1153.1520	7.00	-2.04	95475.280	.5	104144.790	.5
1153.1786	6.00	-2.68	80782.510	1.0	89451.820	1.0
1153.1813	27.00	-2.53	43425.710	2.5	52095.000	3.5
1153.2106	10.01	-1.98	312765.490	3.5	321434.560	2.5
1153.2332	23.01	-2.36	44098.460	3.0	52767.360	3.0
1153.2810	7.00	-1.99	106814.459	2.5	115483.000	1.5
1153.2810	7.00	-2.40	106814.459	2.5	115483.000	2.5
1153.3556	18.01	-1.73	196633.020	2.5	205301.000	2.5
1153.3743	18.01	-3.07	196633.020	2.5	205300.860	1.5
1153.3743	6.00	-3.66	81105.030	1.0	89772.870	2.0
1153.3807	26.00	-4.79	47755.485	3.0	56423.276	4.0
1153.3835	28.01	-4.90	120271.970	2.5	128939.740	1.5
1153.4314	18.01	-1.86	191012.350	1.5	199679.760	2.5
1153.4687	10.01	-1.83	312763.910	4.5	321431.040	5.5
1153.4833	12.01	-1.43	105622.340	.5	114289.360	.5
1153.5326	24.00	-5.00	36558.550	2.0	45225.200	2.0
1153.5705	7.00	-4.53	106868.635	3.5	115535.000	2.5
1153.5705	7.00	-2.85	106868.635	3.5	115535.000	3.5
1153.6551	18.01	-2.57	206245.570	3.5	214911.300	2.5
1153.6787	28.00	-2.88	47208.228	1.0	55873.780	2.0
1153.6802	7.00	-2.81	106814.459	2.5	115480.000	1.5
1153.7230	18.01	-1.52	201781.790	2.5	210447.010	3.5
1153.7668	6.00	-2.78	80782.510	1.0	89447.400	2.0
1153.7882	23.00	-4.38	15270.420	1.5	23935.150	2.5
1153.8334	18.01	-1.68	200138.850	3.5	208803.240	4.5
1153.8654	10.01	-2.55	312763.910	4.5	321428.060	3.5
1153.8707	17.00	-1.38	91538.500	1.5	100202.610	1.5
1153.9054	17.00	-2.18	91538.500	1.5	100202.350	.5
1153.9160	28.01	-4.28	121178.560	3.5	129842.330	2.5
1154.0013	25.00	-4.82	57485.970	2.5	66149.100	3.5
1154.0611	12.00	-1.74	49346.729	1.0	58009.410	0.0
1154.0626	6.00	-3.07	78293.490	1.0	86956.160	1.0
1154.0666	28.01	-3.39	120250.170	3.5	128912.810	2.5
1154.0746	10.01	-3.52	312765.490	3.5	321428.070	2.5
1154.0759	10.01	-1.11	312765.490	3.5	321428.060	3.5
1154.0786	10.01	-1.86	312772.010	3.5	321434.560	2.5
1154.1371	10.01	-.72	312772.450	2.5	321434.560	2.5
1154.1878	23.00	-6.38	14548.830	2.5	23210.560	2.5
1154.2185	29.01	-.79	137913.800	1.0	146575.300	2.0
1154.2347	7.00	-3.34	107445.622	1.5	116107.000	.5
1154.2347	7.00	-3.84	107445.622	1.5	116107.000	1.5
1154.2916	26.00	-4.60	43079.013	1.0	51739.964	2.0
1154.2984	13.01	-4.29	139588.700	4.0	148249.600	4.0
1154.2984	13.01	-4.43	139588.700	4.0	148249.600	4.0
1154.2984	13.01	-2.76	139588.700	5.0	148249.600	4.0
1154.3091	28.01	-3.67	100609.010	2.5	109269.830	1.5
1154.3651	13.01	-4.42	139588.700	3.0	148249.100	3.0
1154.3651	13.01	-3.16	139588.700	4.0	148249.100	3.0
1154.3651	13.01	-2.34	139588.700	4.0	148249.100	3.0
1154.4117	15.00	-2.93	58174.450	1.5	66834.500	1.5
1154.4184	13.01	-2.99	139588.700	3.0	148248.700	2.0
1154.4197	27.00	-4.45	46329.630	2.5	54989.620	3.5
1154.4353	28.00	-3.82	50458.187	1.0	59118.060	2.0
1154.4641	9.00	-.02	117622.923	2.5	126282.580	1.5
1154.4664	12.01	-1.13	105629.720	1.5	114289.360	.5
1154.4729	26.00	-4.16	42532.729	3.0	51192.320	4.0
1154.4784	26.02	-4.25	189679.070	3.0	198338.620	4.0
1154.5077	10.01	-1.77	312763.910	4.5	321423.240	3.5
1154.5090	10.01	-1.65	312763.910	4.5	321423.230	4.5
1154.5170	28.01	-4.91	106283.160	2.5	114942.420	1.5
1154.5234	7.00	-2.82	107182.788	1.5	115842.000	.5
1154.5234	7.00	-3.32	107182.788	1.5	115842.000	1.5
1154.5263	20.02	-4.62	374139.310	5.0	382798.500	4.0
1154.5437	28.01	-1.18	120144.170	2.5	128803.230	2.5
1154.5557	10.01	.22	312763.910	4.5	321422.880	5.5
1154.5597	10.01	-.56	312763.910	4.5	321422.850	4.5
1154.6146	22.00	-4.60	27355.042	1.0	36013.570	2.0
1154.6330	23.01	-4.19	64130.840	4.0	72789.230	3.0
1154.6828	22.00	-4.26	18145.400	2.0	26803.417	2.0
1154.7091	6.00	-2.48	78307.630	2.0	86965.450	2.0
1154.7184	10.01	-.86	312765.490	3.5	321423.240	3.5
1154.7197	10.01	.01	312765.490	3.5	321423.230	4.5
1154.7597	24.00	-4.96	35934.020	6.0	44591.460	5.0
1154.7637	26.01	-4.55	60445.280	2.5	69102.690	2.5
1154.7704	10.01	-.45	312765.490	3.5	321422.850	4.5
1154.9331	7.00	-4.88	86137.320	.5	94793.460	1.5
1154.9425	18.01	-4.61	206255.230	2.5	214911.300	2.5
1154.9438	10.01	-2.05	312772.010	3.5	321428.070	2.5
1154.9451	10.01	-.99	312772.010	3.5	321428.060	3.5
1154.9505	18.01	-1.88	186340.480	1.5	194996.490	1.5
1155.0025	10.01	-2.01	312772.450	2.5	321428.070	2.5
1155.0039	10.01	-.39	312772.450	2.5	321428.060	3.5
1155.0366	7.00	-4.53	106868.635	3.5	115524.000	2.5
1155.0366	7.00	-1.81	106868.635	3.5	115524.000	3.5
1155.0519	10.01	-.35	313420.090	2.5	322075.340	3.5
1155.0773	20.02	-4.24	374143.440	4.0	382798.500	4.0
1155.1173	27.00	-2.35	44201.920	2.5	52856.680	3.5
1155.2014	28.01	-3.08	112906.930	1.5	121561.060	.5
1155.2282	22.00	-3.43	34204.971	4.0	42858.900	3.0
1155.2655	25.01	-4.76	29889.310	3.0	38542.960	3.0
1155.2722	23.01	-3.77	64026.600	4.0	72680.200	5.0
1155.2892	10.00	-2.26	158795.992	1.0	167449.464	1.0
1155.3957	7.00	-4.83	103667.130	1.5	112319.805	1.5
1155.4057	20.02	-4.70	374138.900	4.0	382791.500	3.0
1155.4204	22.01	-5.60	20891.880	3.5	29544.370	2.5
1155.4375	28.00	-2.44	42653.723	2.0	51306.085	3.0
1155.4471	10.01	-.81	283894.410	.5	292546.700	.5
1155.4640	22.00	-3.53	27480.047	3.0	36132.210	4.0
1155.5299	10.01	-3.64	281720.280	1.5	290371.950	2.5
1155.5485	7.00	-2.61	107588.469	.5	116240.000	1.5
1155.5526	29.01	-2.05	139710.200	2.0	148361.700	1.0
1155.5700	16.01	-3.44	156121.330	2.5	164772.700	3.5
1155.5887	10.01	-.70	312772.010	3.5	321423.240	3.5
1155.5900	10.01	-.39	312772.010	3.5	321423.230	4.5
1155.6020	7.00	-1.35	95493.660	1.5	104144.790	.5
1155.6407	10.01	-.07	312772.010	3.5	321422.850	4.5
1155.6461	6.00	-2.07	69689.480	1.0	78340.280	1.0
1155.6474	10.01	-.24	312772.450	2.5	321423.240	3.5
1155.6688	21.01	-1.81	55715.520	1.0	64366.150	2.0
1155.6728	23.00	-4.79	20767.570	3.5	29418.170	3.5
1155.6795	6.00	-2.14	80801.270	2.0	89451.820	1.0
1155.7129	22.00	-2.83	38544.380	3.0	47194.680	4.0
1155.7134	9.00	.12	116987.394	3.5	125637.690	2.5
1155.7516	28.01	-4.74	121192.320	3.5	129842.330	2.5
1155.8783	26.00	-4.49	46727.055	2.0	55376.117	1.0
1155.8906	6.00	-3.08	80782.510	1.0	89431.480	2.0
1155.9008	7.00	-3.32	107253.106	2.5	115902.000	2.5
1155.9008	7.00	-1.63	107253.106	2.5	115902.000	3.5
1155.9080	23.02	-3.92	152939.200	2.5	161588.040	3.5
1155.9468	18.00	-3.73	117563.020	0.0	126211.570	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1155.9495	6.00	-3.42	78307.630	2.0	86956.160	1.0
1155.9667	13.01	-2.44	124792.000	2.0	133440.400	3.0
1155.9949	28.01	-4.73	121194.140	2.5	129842.330	2.5
1156.0416	10.01	-.04	313419.040	1.5	322066.880	2.5
1156.0557	22.00	-3.74	27418.015	2.0	36065.750	3.0
1156.0657	20.02	-4.31	374143.840	3.0	382791.500	3.0
1156.0724	28.01	-3.00	129474.270	3.5	138121.880	4.5
1156.0871	15.01	-.94	129110.600	1.0	137758.100	0.0
1156.1272	6.00	-4.36	78318.250	3.0	86965.450	2.0
1156.1366	6.00	-2.94	80801.270	2.0	89448.400	3.0
1156.1638	17.00	-1.11	91538.500	1.5	100185.426	2.5
1156.1820	10.01	-1.19	313420.090	2.5	322066.880	2.5
1156.1861	10.01	-.07	313420.090	2.5	322066.850	3.5
1156.1914	17.00	-2.76	91538.500	1.5	100185.220	1.5
1156.2578	26.00	-3.14	44415.057	4.0	53061.280	5.0
1156.2703	6.00	-2.75	80801.270	2.0	89447.400	2.0
1156.3158	10.01	-2.65	283322.350	1.5	291968.140	.5
1156.3425	6.00	-4.34	89232.410	1.0	97878.000	2.0
1156.3505	22.00	-4.79	34078.580	3.0	42724.110	2.0
1156.3559	21.00	-3.82	31215.760	2.5	39861.250	2.5
1156.3866	28.01	-3.12	121925.160	.5	130570.420	.5
1156.4254	27.00	-3.59	46260.020	1.5	54904.990	2.5
1156.5070	24.00	-4.95	48488.230	0.0	57132.590	1.0
1156.5164	27.00	-2.73	43425.710	2.5	52070.000	2.5
1156.5351	24.00	-4.37	46174.400	3.0	54818.550	2.0
1156.5552	28.01	-4.26	120268.810	3.5	128912.810	2.5
1156.5686	15.01	-.32	129666.100	2.0	138310.000	2.0
1156.5699	10.01	-.85	313431.490	4.5	322075.380	4.5
1156.5753	10.01	-3.61	313431.490	4.5	322075.340	3.5
1156.6035	26.00	-4.79	49627.861	4.0	58271.500	5.0
1156.6296	26.00	-3.52	45281.816	2.0	53925.260	1.0
1156.6757	10.01	-.14	313432.280	3.5	322075.380	4.5
1156.6810	10.01	-1.23	313432.280	3.5	322075.340	3.5
1156.7074	18.00	-4.78	114147.750	1.0	122790.612	0.0
1156.7412	10.00	-1.59	162830.703	3.0	171473.313	2.0
1156.8269	26.00	-3.23	45913.480	3.0	54555.450	4.0
1156.9219	20.02	-4.62	374143.440	4.0	382784.700	3.0
1156.9233	25.00	-4.16	57305.620	3.5	65946.870	2.5
1156.9394	16.01	-.34	155818.370	2.5	164459.500	2.5
1156.9702	6.00	-2.04	81325.760	1.0	89966.660	2.0
1156.9782	28.01	-4.01	120271.970	2.5	128912.810	2.5
1157.0210	28.00	-2.00	49327.560	3.0	57968.080	3.0
1157.2527	28.01	-2.50	112686.300	2.5	121325.090	2.5
1157.2634	28.01	-3.50	104081.040	4.5	112719.750	3.5
1157.2648	30.02	-3.94	294188.300	2.0	302827.000	2.0
1157.2728	7.01	-3.43	196711.540	2.0	205350.180	2.0
1157.2795	15.00	-.59	58174.450	1.5	66813.040	1.5
1157.3170	17.00	-1.12	91564.300	.5	100202.610	1.5
1157.3338	26.00	-4.59	45428.385	4.0	54066.570	4.0
1157.3519	17.00	-3.03	91564.300	.5	100202.350	.5
1157.4229	7.00	-3.97	106980.480	.5	115618.000	.5
1157.4229	7.00	-3.08	106980.480	.5	115618.000	1.5
1157.4497	24.00	-4.27	46349.500	2.0	54986.820	3.0
1157.4604	9.02	-4.04	431432.270	1.5	440069.510	1.5
1157.4738	28.01	-4.97	122120.370	5.5	130757.510	4.5
1157.4805	10.01	.33	313431.490	4.5	322068.580	5.5
1157.7124	10.01	-2.40	313431.490	4.5	322066.850	3.5
1157.7231	23.02	-3.44	153288.000	1.5	161923.280	2.5
1157.7432	56.01	-.27	49390.050	0.0	58027.544	0.0
1157.8142	10.01	-2.87	313432.280	3.5	322066.880	2.5
1157.8183	10.01	-1.56	313432.280	3.5	322066.850	3.5
1157.8692	18.00	-2.73	113020.390	3.0	121654.580	2.0
1157.9041	18.00	-1.75	113020.390	3.0	121654.320	3.0
1157.9068	28.01	-3.67	122790.410	4.5	131424.320	5.5
1157.9089	7.00	-3.72	107253.106	2.5	115887.000	1.5
1157.9089	7.00	-4.36	107253.106	2.5	115887.000	2.5
1157.9089	7.00	-2.59	107253.106	2.5	115887.000	3.5
1157.9385	22.00	-3.15	25537.276	1.0	34170.950	0.0
1157.9578	7.00	-4.89	86137.320	.5	94770.850	.5
1157.9725	28.01	-3.58	127885.860	4.5	136519.280	4.5
1157.9936	17.00	-.40	94468.857	.5	103102.120	1.5
1157.9973	22.00	-4.33	27498.975	3.0	36132.210	4.0
1158.0148	26.00	-4.85	43137.472	3.0	51770.577	3.0
1158.0275	18.00	-1.51	113020.390	3.0	121653.400	3.0
1158.0275	18.00	-.25	113020.390	3.0	121653.400	4.0
1158.0305	22.00	-3.88	29818.310	3.0	38451.298	2.0
1158.0611	28.01	-2.98	121699.020	1.5	130331.780	1.5
1158.1429	28.01	-4.05	130470.900	4.5	139103.050	5.5
1158.1617	25.00	-4.96	56356.210	3.5	64988.220	3.5
1158.1899	23.00	-1.56	28595.640	3.5	37227.440	2.5
1158.1916	26.00	-3.02	47960.973	4.0	56592.760	4.0
1158.2199	28.00	-1.59	45122.460	1.0	53754.036	2.0
1158.2287	17.00	-2.84	91538.500	1.5	100170.010	2.5
1158.2851	18.01	-2.03	190507.360	1.5	199138.450	1.5
1158.3093	25.01	-3.71	72648.800	4.0	81279.710	4.0
1158.3352	7.00	-3.59	107628.283	1.5	116259.000	.5
1158.3352	7.00	-3.69	107628.283	1.5	116259.000	1.5
1158.3352	7.00	-2.08	107628.283	1.5	116259.000	2.5
1158.3428	28.01	-3.30	122120.370	5.5	130751.030	5.5
1158.3455	14.01	-2.17	117915.060	.5	126545.700	.5
1158.3616	10.01	-.21	312804.040	1.5	321434.560	2.5
1158.4032	23.02	-3.59	152939.200	2.5	161569.410	1.5
1158.4033	6.00	-2.85	80801.270	2.0	89431.480	2.0
1158.4355	24.00	-3.98	33934.880	3.0	42564.850	4.0
1158.4543	10.01	-1.09	312804.730	2.5	321434.560	2.5
1158.4825	6.00	-1.94	69710.660	2.0	78340.280	1.0
1158.4959	23.00	-5.13	9544.540	.5	18174.060	1.5
1158.5254	29.01	-2.02	108014.660	3.0	116643.960	3.0
1158.5630	10.01	-4.11	313718.990	3.5	322348.010	3.5
1158.5630	10.01	-3.56	313718.990	3.5	322348.010	4.5
1158.5750	16.01	-4.54	155818.370	2.5	164447.300	2.5
1158.5791	15.00	-3.75	68246.500	2.5	76875.400	1.5
1158.6798	18.01	-2.46	196621.880	3.5	205250.030	3.5
1158.6932	18.01	-2.92	196621.880	3.5	205249.930	2.5
1158.6959	24.00	-.11	48558.570	2.0	57186.600	3.0
1158.6986	22.00	-2.12	25699.950	2.0	34327.960	1.0
1158.7067	6.01	-1.43	179073.050	4.5	187701.000	4.5
1158.7067	6.01	.30	179073.050	4.5	187701.000	5.5
1158.7067	6.01	.21	179073.050	3.5	187701.000	4.5
1158.7201	10.01	-1.86	294333.220	.5	302961.070	1.5
1158.7926	6.00	-4.21	81343.990	2.0	89971.300	3.0
1158.7994	18.01	-1.94	190511.190	2.5	199138.450	1.5
1158.8208	23.00	-2.93	30771.720	4.5	39398.820	3.5
1158.8508	7.00	-4.13	103667.130	1.5	112294.007	.5
1158.8701	28.00	-1.35	34163.294	2.0	42790.027	2.0
1158.9382	18.00	-4.23	116660.054	1.0	125286.280	1.0
1158.9634	26.00	-3.31	43079.013	1.0	51705.052	2.0
1158.9729	7.00	-3.45	106996.032	1.5	115622.000	2.5
1159.0801	6.00	-3.72	78340.280	1.0	86965.450	2.0
1159.0842	24.00	-3.60	46349.500	2.0	54974.640	2.0
1159.1304	26.00	-4.75	51739.964	2.0	60364.760	3.0
1159.1467	14.00	-.90	50566.397	1.0	59191.072	2.0
1159.2290	14.00	-1.05	50566.397	1.0	59190.460	1.0
1159.2334	10.01	-1.21	312804.040	1.5	321428.070	2.5
1159.2441	28.01	-4.93	127895.330	3.5	136519.280	4.5
1159.2723	25.01	-5.71	29919.220	2.0	38542.960	3.0
1159.2844	22.00	-1.62	35757.510	4.0	44381.160	4.0
1159.3085	28.00	-1.51	35639.148	3.0	44262.619	2.0
1159.3261	10.01	-.82	312804.730	2.5	321428.070	2.5
1159.3274	10.01	-.19	312804.730	2.5	321428.060	3.5
1159.3517	28.01	-3.55	128912.810	2.5	137535.960	3.5
1159.3600	26.00	-2.81	17927.378	1.0	26550.466	0.0
1159.3974	6.00	-1.76	81343.990	2.0	89966.800	3.0
1159.4162	6.00	-2.46	81343.990	2.0	89966.660	2.0
1159.4580	26.00	-2.25	36940.600	2.0	45562.959	3.0
1159.5009	7.01	-1.31	202714.120	1.0	211336.160	1.0
1159.5027	22.00	-1.88	37622.573	3.0	46244.600	2.0
1159.5106	7.00	-2.08	106996.032	1.5	115618.000	.5
1159.5106	7.00	-2.14	106996.032	1.5	115618.000	1.5
1159.5106	7.00	-2.54	106996.032	1.5	115618.000	2.5
1159.5157	23.00	-4.98	9636.960	1.5	18258.890	2.5
1159.5317	22.00	-8.54	7255.369	2.0	15877.180	2.0
1159.5587	26.01	-4.09	84863.140	5.5	93484.750	4.5
1159.6381	24.00	-4.82	45306.450	5.0	53927.470	6.0
1159.6515	17.00	-1.06	91564.300	.5	100185.220	1.5
1159.6542	29.01	-.01	137938.900	4.0	146559.800	4.0
1159.6999	20.02	-4.91	350900.040	2.0	359520.600	2.0
1159.7009	18.00	-3.89	114641.040	2.0	123261.593	2.0
1159.7296	7.01	-3.01	221322.760	4.0	229943.100	4.0
1159.7430	7.01	-4.73	221322.860	5.0	229943.100	4.0
1159.7646	23.01	-4.93	30613.970	4.0	39234.050	3.0
1159.7909	17.00	-4.66	94482.236	2.5	103102.120	1.5
1159.8282	17.00	-.82	82918.893	2.5	91538.500	1.5
1159.8601	6.00	-3.04	78293.490	1.0	86912.860	1.0
1159.8959	17.00	-3.48	94482.236	2.5	103101.340	2.5
1159.9435	27.00	-4.71	42434.230	2.5	51052.980	3.5
1159.9583	28.01	-.98	129503.240	4.5	138121.880	4.5
1159.9759	10.01	-.52	312804.730	2.5	321423.240	3.5
1159.9812	24.00	-4.81	46368.350	3.0	54986.820	3.0
1160.0242	6.00	-.97	69689.480	1.0	78307.630	2.0
1160.0335	10.00	-3.36	161699.661	2.0	170317.742	2.0
1160.0362	10.00	-2.27	161699.661	2.0	170317.722	3.0
1160.0475	10.00	-4.54	161699.661	2.0	170317.638	3.0
1160.0579	12.01	-1.29	103689.890	3.5	112307.790	3.5
1160.0579	12.01	.25	103689.890	3.5	112307.790	4.5
1160.0579	12.01	.14	103689.890	2.5	112307.790	3.5
1160.0593	27.00	-4.81	45540.280	5.5	54158.170	4.5
1160.0849	29.01	-2.03	137938.900	4.0	146556.600	3.0
1160.1427	27.00	-4.56	46329.630	2.5	54946.900	2.5
1160.1536	10.00	-1.23	150917.431	0.0	159534.620	1.0
1160.1764	16.00	-0.00	69236.936	2.0	77853.956	1.0
1160.1777	18.01	-1.04	196633.020	2.5	205250.030	3.5
1160.1912	18.01	-4.29	196633.020	2.5	205249.930	2.5
1160.2138	28.00	-2.35	43654.974	3.0	52271.716	2.0
1160.2437	7.00	-2.94	106980.480	.5	115597.000	1.5
1160.2545	26.02	-4.92	213974.420	6.0	222590.860	7.0
1160.2746	10.00	-4.51	161701.451	3.0	170317.742	2.0
1160.2773	10.00	-3.57	161701.451	3.0	170317.722	3.0
1160.2824	10.00	-2.14	161701.451	3.0	170317.684	4.0
1160.2886	10.00	-3.21	161701.451	3.0	170317.638	3.0
1160.2918	26.00	-3.14	42532.729	3.0	51148.892	2.0
1160.2948	26.00	-4.07	42532.729	3.0	51148.870	3.0
1160.3299	6.00	-3.06	78340.280	1.0	86956.160	1.0
1160.3542	13.01	-1.57	140091.200	1.0	148706.900	0.0
1160.3798	15.01	-3.29	101636.490	1.0	110252.000	1.0
1160.4026	7.01	-4.66	221322.760	4.0	229938.100	5.0
1160.4161	7.01	-2.92	221322.860	5.0	229938.100	5.0
1160.4538	28.01	-4.59	98467.250	3.5	107082.210	2.5
1160.4713	24.00	-4.96	48661.590	3.0	57276.420	3.0
1160.5306	10.01	.34	312816.670	5.5	321431.060	6.5
1160.5333	10.01	-1.79	312816.670	5.5	321431.040	5.5
1160.5340	7.00	-1.76	106868.635	3.5	115483.000	2.5
1160.5441	10.01	.26	312816.750	4.5	321431.040	5.5
1160.5858	24.00	-2.96	35572.940	2.0	44186.920	2.0
1160.5899	18.00	-2.73	114641.040	2.0	123254.990	1.0
1160.5939	28.01	-3.18	128912.810	2.5	137526.730	2.5
1160.6115	6.00	-2.74	80834.610	3.0	89448.400	3.0
1160.6676	22.00	-4.52	39715.437	3.0	48328.810	4.0
1160.6721	10.01	-3.26	312810.670	4.5	321424.010	4.5
1160.6775	10.01	-4.71	312810.710	5.5	321424.010	4.5
1160.6775	10.01	-4.20	312810.670	4.5	321423.970	5.5
1160.6829	10.01	-2.91	312810.710	5.5	321423.970	5.5
1160.7314	8.02	-4.77	357111.000	2.0	365723.900	1.0
1160.7408	24.00	-4.95	54078.130	5.0	62690.960	5.0
1160.7463	6.00	-3.65	80834.610	3.0	89447.400	2.0
1160.7587	26.00	-2.39	17726.985	2.0	26339.682	2.0
1160.8041	10.01	-4.41	312811.650	3.5	321424.010	4.5
1160.8041	10.01	-3.33	312811.650	4.5	321424.010	4.5
1160.8345	14.00	-3.57	50189.389	2.0	58801.524	1.0
1160.8365	27.00	-2.97	43847.980	3.5	52460.100	2.5
1160.8365	22.00	-3.23	40302.950	3.0	48915.070	2.0
1160.8908	7.00	-2.43	107628.283	1.5	116240.000	1.5
1160.8908	7.00	-2.37	107628.283	1.5	116240.000	2.5
1160.9457	10.01	-2.72	312816.750	4.5	321428.060	3.5
1160.9675	26.00	-3.04	36940.600	2.0	45551.748	1.0
1160.9802	14.00	-1.51	50499.838	2.0	59110.892	2.0
1160.9821	14.01	-1.98	117915.060	.5	126526.100	1.5
1161.0023	28.01	-3.92	128924.940	6.5	137535.830	5.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1161.0279	28.01	-2.72	128912.810	2.5	137523.510	3.5
1161.0522	24.00	-.61	26787.500	3.0	35398.020	4.0
1161.0711	7.00	-4.11	86220.480	1.5	94830.860	2.5
1161.0821	26.00	-3.15	45720.662	3.0	53830.960	3.0
1161.0900	9.01	-2.12	269548.970	3.0	278159.210	3.0
1161.0995	18.01	-1.10	199981.940	1.5	208592.110	.5
1161.1061	14.00	-.28	50499.838	2.0	59109.959	3.0
1161.1250	22.00	-4.71	38670.710	4.0	47280.690	5.0
1161.1439	18.01	-1.87	199981.940	1.5	208591.780	1.5
1161.1493	23.00	-6.92	14910.040	3.5	23519.840	4.5
1161.1533	6.00	-2.37	78731.270	1.0	87341.040	0.0
1161.2296	26.00	-3.42	44551.325	3.0	53160.530	3.0
1161.2329	10.01	-2.36	312824.840	2.5	321434.020	1.5
1161.2518	10.01	-2.20	312811.650	3.5	321420.690	2.5
1161.2977	24.00	-3.83	33906.650	1.0	42515.350	2.0
1161.3112	25.00	-1.87	41403.930	2.5	50012.530	2.5
1161.3247	15.01	-.64	130801.700	1.0	139410.200	2.0
1161.3395	24.00	-.64	48488.230	0.0	57096.620	1.0
1161.3800	7.01	-.58	221141.610	3.0	229749.700	4.0
1161.4016	23.01	-3.48	44159.430	2.0	52767.360	3.0
1161.4056	23.01	-3.68	64229.100	5.0	72837.000	6.0
1161.4082	10.00	-.79	150772.112	1.0	159379.993	0.0
1161.4299	25.00	-2.64	51787.920	.5	60395.640	1.5
1161.4475	6.00	-.21	69710.660	2.0	78318.250	3.0
1161.4528	27.00	-3.47	43425.710	2.5	52033.260	1.5
1161.4879	7.01	-1.48	221141.610	3.0	229748.900	3.0
1161.5068	6.00	-2.65	80562.850	1.0	89170.000	1.0
1161.5540	27.00	-2.09	43555.220	3.5	52162.020	3.5
1161.5864	10.01	-4.68	312816.670	5.5	321423.230	4.5
1161.5959	10.01	-2.40	312816.750	4.5	321423.240	3.5
1161.5972	10.01	-.97	312816.750	4.5	321423.230	4.5
1161.6053	28.01	-2.36	128912.810	2.5	137519.230	2.5
1161.6229	24.00	-3.48	46368.350	3.0	54974.640	2.0
1161.6337	10.01	-.71	312816.670	5.5	321422.880	5.5
1161.6377	10.01	-2.00	312816.670	5.5	321422.850	4.5
1161.6445	10.01	-2.27	312816.750	4.5	321422.880	5.5
1161.6485	10.01	-1.35	312816.750	4.5	321422.850	4.5
1161.6863	7.01	-3.31	202170.630	1.0	210776.450	0.0
1161.6971	23.00	-3.49	30635.600	2.5	39241.340	2.5
1161.7025	30.02	-2.88	294302.800	4.0	302908.500	4.0
1161.7214	27.00	-4.95	43435.580	.5	52041.140	.5
1161.7309	10.01	-.04	313469.890	3.5	322075.380	4.5
1161.7363	10.01	-3.49	313469.890	3.5	322075.340	3.5
1161.7476	22.00	-4.13	18287.560	4.0	26892.926	3.0
1161.7511	28.01	-3.67	112719.750	3.5	121325.090	2.5
1161.8079	10.01	-.04	313470.420	2.5	322075.340	3.5
1161.8524	16.01	-4.56	121529.490	2.5	130134.080	2.5
1161.8683	10.00	-2.45	163657.268	1.0	172261.740	1.0
1161.8740	28.01	-3.38	128924.940	6.5	137529.370	6.5
1161.8740	28.01	-3.68	128924.940	7.5	137529.370	6.5
1161.9307	6.00	-.50	69689.480	1.0	78293.490	1.0
1161.9415	24.00	-4.84	33934.880	3.0	42538.810	3.0
1161.9584	26.00	-3.92	44551.325	3.0	53155.130	4.0
1162.0131	12.01	-1.43	103705.660	4.5	112309.060	4.5
1162.0131	12.01	.30	103705.660	4.5	112309.060	5.5
1162.0131	12.01	.21	103705.660	3.5	112309.060	4.5
1162.0266	25.00	-3.61	57305.620	3.5	65908.920	4.5
1162.0455	24.00	-3.85	33935.650	2.0	42538.810	3.0
1162.0548	26.00	-3.36	45509.112	1.0	54112.203	2.0
1162.0739	28.01	-1.95	109269.830	1.5	117872.780	2.5
1162.0968	23.01	-3.93	44200.970	1.0	52803.750	1.0
1162.1090	28.01	-2.04	122821.630	5.5	131424.320	5.5
1162.1725	25.00	-1.38	47753.990	2.5	56356.210	3.5
1162.2166	7.00	-2.78	107253.106	2.5	115855.000	1.5
1162.2171	6.00	-2.27	80562.850	1.0	89164.740	1.0
1162.2603	23.01	-3.75	44098.460	3.0	52700.030	2.0
1162.2779	22.00	-2.02	35652.950	3.0	44254.390	3.0
1162.2960	22.00	-3.76	27750.124	5.0	36351.430	5.0
1162.3049	27.00	-1.86	43555.220	3.5	52156.460	4.5
1162.3416	7.00	-3.00	106996.032	1.5	115597.000	1.5
1162.3522	28.01	-3.75	106369.300	1.5	114970.190	.5
1162.3612	26.00	-4.02	40534.180	3.0	49135.003	3.0
1162.3679	26.00	-4.88	42859.756	2.0	51460.530	3.0
1162.4333	7.01	-4.56	221342.810	3.0	229943.100	4.0
1162.4671	28.01	-4.11	120903.200	3.5	129503.240	4.5
1162.5604	6.00	-4.63	80562.850	1.0	89162.200	2.0
1162.6406	2.01	1.02	421353.130	0.0	429954.240	0.0
1162.6577	28.01	-3.32	101247.370	2.5	109846.000	3.5
1162.6577	10.01	-4.48	313469.890	3.5	322068.520	4.5
1162.7127	26.00	-4.50	45562.959	3.0	54161.182	3.0
1162.7528	14.00	-2.88	48102.323	2.0	56700.250	1.0
1162.7740	10.01	-2.09	312810.670	4.5	321408.440	3.5
1162.7862	27.00	-4.97	43435.580	.5	52033.260	1.5
1162.7983	27.00	-4.30	46685.430	1.5	55283.020	2.5
1162.8112	22.00	-4.86	27498.975	3.0	36096.470	3.0
1162.8698	10.00	-2.16	163657.268	1.0	172254.330	0.0
1162.8795	10.01	-2.39	313469.890	3.5	322066.880	2.5
1162.8822	10.01	-4.15	312811.650	3.5	321408.620	2.5
1162.8822	6.00	-.09	69710.660	2.0	78307.630	2.0
1162.8836	10.01	-.80	313469.890	3.5	322066.850	3.5
1162.8958	6.00	-3.10	80834.610	3.0	89431.480	2.0
1162.8971	24.00	-4.11	42438.820	2.0	51035.680	2.0
1162.9038	27.00	-3.74	46671.940	2.5	55268.750	3.5
1162.9066	10.01	-2.75	312811.650	3.5	321408.440	3.5
1162.9066	10.01	-3.60	312811.650	4.5	321408.440	3.5
1162.9471	28.01	-3.19	68735.980	2.5	77332.470	2.5
1162.9512	10.01	-1.09	313470.420	2.5	322066.880	2.5
1162.9553	10.01	-.43	313470.420	2.5	322066.850	3.5
1163.0310	10.01	-3.55	312824.820	3.5	321420.690	2.5
1163.0337	10.01	-2.88	312824.840	2.5	321420.690	2.5
1163.0391	12.01	-3.46	103705.660	3.5	112301.470	3.5
1163.0391	12.01	-1.92	103705.660	4.5	112301.470	3.5
1163.0391	12.01	-2.03	103705.660	3.5	112301.470	2.5
1163.0838	22.00	-4.89	38544.380	3.0	47139.860	4.0
1163.0973	27.00	-1.41	27497.060	2.5	36092.440	2.5
1163.1108	9.01	-1.36	269563.930	2.0	278159.210	3.0
1163.1108	10.01	-3.94	312810.670	4.5	321405.950	3.5
1163.1352	7.01	-4.47	221343.000	4.0	229938.100	5.0
1163.1623	29.01	-3.63	130386.400	2.0	138981.300	2.0
1163.1744	24.00	-2.89	46077.090	1.0	54671.900	1.0
1163.1758	30.02	-4.70	294275.000	3.0	302869.800	3.0
1163.1907	28.01	-4.37	128924.940	6.5	137519.630	7.5
1163.1907	28.01	-3.42	128924.940	7.5	137519.630	7.5
1163.2056	27.00	-3.02	45688.150	2.5	54282.730	2.5
1163.2056	10.01	-2.82	312810.670	4.5	321405.250	4.5
1163.2110	10.01	-1.95	312810.710	5.5	321405.250	4.5
1163.2137	26.02	-4.94	193605.990	2.0	202200.510	3.0
1163.2435	10.01	-4.58	312811.650	3.5	321405.950	3.5
1163.2435	10.01	-2.04	312811.650	4.5	321405.950	3.5
1163.2441	22.00	-3.76	11531.760	2.0	20126.055	3.0
1163.2498	22.00	-4.25	27614.667	4.0	36208.920	4.0
1163.3382	10.01	-4.26	312811.650	3.5	321405.250	4.5
1163.3382	10.01	-3.30	312811.650	4.5	321405.250	4.5
1163.3720	10.01	-2.45	313744.530	3.5	322337.880	2.5
1163.4059	24.00	-.34	48507.560	1.0	57100.660	2.0
1163.4397	10.01	-3.89	313744.530	3.5	322337.380	3.5
1163.4424	18.01	-1.60	196621.880	3.5	205214.710	3.5
1163.4424	18.01	-1.13	196621.880	3.5	205214.710	4.5
1163.4465	10.01	-2.34	313744.580	4.5	322337.380	3.5
1163.4736	22.01	-4.56	20951.770	2.5	29544.370	2.5
1163.5088	23.01	-3.42	30641.710	3.0	39234.050	3.0
1163.5379	22.00	-3.56	18825.890	1.0	27418.015	2.0
1163.6023	28.01	-3.14	128944.310	2.5	137535.960	3.5
1163.6362	17.01	-1.29	137877.600	2.0	146469.000	3.0
1163.6984	10.01	-3.10	312843.080	1.5	321434.020	1.5
1163.7079	10.01	-3.93	312843.150	2.5	321434.020	1.5
1163.7404	24.00	-4.54	46081.270	0.0	54671.900	1.0
1163.7499	10.01	-1.91	312833.450	5.5	321424.010	4.5
1163.7553	10.01	-3.72	312833.450	5.5	321423.970	5.5
1163.7580	10.01	-1.84	312833.470	6.5	321423.970	5.5
1163.7753	10.00	-1.93	162899.113	2.0	171489.485	1.0
1163.7756	28.00	-4.08	50039.180	2.0	58629.550	3.0
1163.8068	18.01	-1.33	196621.880	3.5	205212.020	4.5
1163.8279	26.00	-2.58	17550.180	3.0	26140.164	3.0
1163.8312	10.01	-1.70	312844.600	1.5	321434.560	2.5
1163.8488	22.00	-4.85	37654.770	2.0	46244.600	2.0
1163.8813	26.02	-4.10	193610.920	3.0	202200.510	3.0
1163.9423	26.02	-3.51	193611.370	4.0	202200.510	3.0
1163.9531	24.00	-.64	48507.560	1.0	57096.620	1.0
1163.9757	7.00	-2.38	107253.106	2.5	115842.000	1.5
1164.0000	26.00	-4.17	49108.876	4.0	57697.590	4.0
1164.0182	14.00	-2.27	48102.323	2.0	56690.903	2.0
1164.0359	18.01	-.98	196633.020	2.5	205221.470	1.5
1164.0941	14.00	-.95	50602.440	0.0	59190.460	1.0
1164.1158	28.01	-1.31	120144.170	2.5	128732.030	1.5
1164.1891	26.00	-3.28	36975.640	3.0	45562.959	3.0
1164.2147	28.01	-3.47	130301.800	6.5	138888.930	6.5
1164.2337	28.01	-2.72	122837.330	4.5	131424.320	5.5
1164.2337	28.01	-3.23	128939.740	1.5	137526.730	2.5
1164.2511	22.00	-2.83	38451.298	2.0	47038.160	3.0
1164.2581	26.00	-4.40	49227.160	3.0	57813.970	3.0
1164.2866	18.01	-3.52	206245.570	3.5	214832.170	3.5
1164.3002	6.00	-2.40	80562.850	1.0	89149.350	1.0
1164.3309	22.00	-4.82	27614.667	4.0	36200.940	5.0
1164.3694	7.01	-3.53	221163.710	4.0	229749.700	4.0
1164.4082	22.00	-4.35	27480.047	3.0	36065.750	3.0
1164.4304	9.02	-4.77	458392.610	1.5	466978.150	1.5
1164.4521	25.00	-4.69	34938.700	4.5	43524.080	3.5
1164.4778	7.01	-3.36	221163.710	3.0	229748.900	3.0
1164.4778	7.01	-1.93	221163.710	4.0	229748.900	3.0
1164.4914	28.01	-3.52	128950.870	3.5	137535.960	3.5
1164.5129	7.00	-1.84	107037.069	2.5	115622.000	2.5
1164.5185	10.01	.04	281998.280	2.5	290583.170	1.5
1164.5388	7.01	-3.50	221322.760	4.0	229907.500	4.0
1164.5524	7.01	-1.86	221322.860	5.0	229907.500	4.0
1164.5859	18.00	-1.37	106237.597	2.0	114821.990	3.0
1164.5911	7.00	-2.69	103735.450	2.5	112319.805	1.5
1164.6664	10.01	-2.21	312824.820	3.5	321408.620	2.5
1164.6691	10.01	-3.47	312824.840	2.5	321408.620	2.5
1164.6908	10.01	-3.47	312824.820	3.5	321408.440	3.5
1164.6935	10.01	-3.87	312824.840	2.5	321408.440	3.5
1164.6949	6.00	-4.23	78529.620	3.0	87113.210	2.0
1164.7112	10.01	-.16	312844.600	1.5	321428.070	2.5
1164.7315	22.01	-4.46	53596.700	1.5	62180.020	1.5
1164.7451	28.01	-1.71	128946.150	7.5	137529.370	6.5
1164.7627	27.00	-4.56	45111.480	4.5	53694.570	3.5
1164.7981	6.00	-.99	69710.660	2.0	78293.490	1.0
1164.8020	16.01	-3.05	119242.130	1.5	127824.930	.5
1164.8305	18.01	-1.70	150147.620	2.5	158730.210	2.5
1164.8428	18.01	-.90	190942.650	.5	199525.150	1.5
1164.8428	13.01	-.98	140091.200	1.0	148673.700	1.0
1164.8428	13.01	-.67	140091.200	2.0	148673.700	1.0
1164.8428	13.01	-1.37	140091.200	0.0	148673.700	1.0
1164.8537	28.01	-2.43	128944.310	2.5	137526.730	2.5
1164.8672	7.01	-3.47	221167.380	4.0	229749.700	4.0
1164.8930	7.01	-1.83	221167.570	5.0	229749.700	4.0
1164.9310	28.01	-1.64	131424.320	5.5	140006.170	4.5
1164.9473	23.00	-6.59	9544.540	.5	18126.270	1.5
1164.9527	18.01	-3.07	196633.020	2.5	205214.710	3.5
1164.9528	25.00	-1.48	47774.520	3.5	56356.210	3.5
1164.9868	28.00	-.95	45122.460	1.0	53703.899	1.0
1165.0224	26.00	-4.40	43022.969	4.0	51604.146	3.0
1165.0288	10.01	-2.88	312824.820	3.5	321405.950	3.5
1165.0478	28.01	-4.98	98561.220	2.5	107142.210	1.5
1165.0558	7.00	-2.13	107037.069	2.5	115618.000	1.5
1165.0558	7.00	-2.42	107037.069	2.5	115618.000	2.5
1165.0736	7.01	-2.08	202170.630	1.0	210751.430	1.0
1165.0828	26.00	-4.65	45551.748	1.0	54132.480	1.0
1165.1239	10.01	-4.10	312824.820	3.5	321405.250	4.5
1165.1360	27.00	-2.63	44183.340	4.5	52763.680	3.5
1165.1401	28.01	-2.81	128950.870	3.5	137531.180	4.5
1165.1632	24.00	-4.84	48507.560	1.0	57087.700	2.0
1165.1883	22.00	-1.94	31205.985	3.0	39785.940	4.0
1165.1972	28.01	-4.91	119315.440	2.5	127895.330	3.5
1165.2080	6.00	-2.97	80562.850	1.0	89142.660	2.0
1165.2229	7.00	-2.08	106477.800	.5	115057.500	1.5
1165.2230	24.00	-4.67	33935.650	2.0	42515.350	2.0
1165.2243	18.00	-3.00	114641.040	2.0	123220.730	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1165.2515	28.01	-3.36	128939.740	1.5	137519.230	2.5
1165.2895	6.00	-.78	70743.950	1.0	79323.160	0.0
1165.2908	15.00	-3.27	68183.200	1.5	76762.400	.5
1165.2909	28.01	-3.82	128944.310	2.5	137523.510	3.5
1165.3017	7.01	-1.83	221363.980	5.0	229943.100	4.0
1165.3656	8.01	.71	245902.850	2.5	254481.500	3.5
1165.5069	10.01	-4.23	312843.080	1.5	321420.690	2.5
1165.5082	26.00	-3.75	45913.480	3.0	54491.080	3.0
1165.5082	28.01	-1.64	130311.330	7.5	138888.930	6.5
1165.5096	28.01	-2.32	128958.370	3.5	137535.960	3.5
1165.5449	10.01	-3.27	312843.080	1.5	321420.410	1.5
1165.5544	10.01	-2.32	312843.150	2.5	321420.410	1.5
1165.5666	12.01	-2.18	109062.340	3.5	117639.510	3.5
1165.5666	12.01	-.64	109062.340	3.5	117639.510	4.5
1165.5666	12.01	-.75	109062.340	2.5	117639.510	3.5
1165.5979	18.01	-4.83	206255.230	2.5	214832.170	3.5
1165.6511	28.00	-3.62	43464.019	1.0	52040.568	2.0
1165.7053	27.00	-4.46	44394.470	3.5	52970.620	2.5
1165.7379	24.00	.08	48661.590	3.0	57237.500	4.0
1165.7447	28.01	-4.10	128950.870	3.5	137526.730	2.5
1165.7828	23.00	-4.99	9544.540	.5	18120.120	.5
1165.7894	7.00	-3.72	107588.469	.5	116164.000	.5
1165.7894	7.00	-2.30	107588.469	.5	116164.000	1.5
1165.8045	28.01	-4.30	130313.510	5.5	138888.930	6.5
1165.8127	27.00	-2.68	46329.630	2.5	54904.990	2.5
1165.8236	28.01	-3.69	113225.060	.5	121800.340	1.5
1165.8494	28.01	-2.47	128960.740	5.5	137535.830	5.5
1165.8494	28.01	-1.84	128960.740	6.5	137535.830	5.5
1165.8725	28.01	-3.23	128944.310	2.5	137519.230	2.5
1165.8848	6.00	-.35	70743.950	1.0	79318.780	1.0
1165.9030	26.00	-2.96	40534.180	3.0	49108.876	4.0
1165.9255	28.01	-2.78	107737.810	1.5	116312.340	1.5
1165.9676	6.00	.10	69744.030	3.0	78318.250	3.0
1165.9704	10.00	-2.23	162899.113	2.0	171473.313	2.0
1165.9799	28.01	-3.94	121561.060	.5	130135.190	1.5
1165.9812	7.01	-3.57	221363.980	5.0	229938.100	5.0
1165.9840	7.01	-1.75	221364.000	6.0	229938.100	5.0
1165.9949	24.00	-4.88	48558.570	2.0	57132.590	1.0
1166.0683	28.01	-2.52	128946.150	7.5	137519.630	7.5
1166.0778	28.01	-1.59	128946.220	8.5	137519.630	7.5
1166.0914	23.00	-7.22	14514.750	1.5	23088.060	1.5
1166.1173	28.01	-3.85	106369.300	1.5	114942.420	1.5
1166.1363	7.00	-4.40	86220.480	1.5	94793.460	1.5
1166.1595	28.01	-4.63	128958.370	3.5	137531.180	4.5
1166.1826	27.00	-4.04	42988.120	3.5	51560.760	2.5
1166.1826	28.01	-2.22	128950.870	3.5	137523.510	3.5
1166.1908	6.00	-2.79	78340.280	1.0	86912.860	1.0
1166.2996	25.01	-3.15	72648.800	4.0	81220.580	3.0
1166.3159	21.00	-3.01	17012.980	2.5	25584.640	2.5
1166.3608	28.01	-4.06	128964.630	4.5	137535.960	3.5
1166.3663	26.00	-4.26	49242.680	2.0	57813.970	3.0
1166.3785	28.01	-2.96	128964.630	4.5	137535.830	5.5
1166.3880	15.00	-3.34	68088.270	1.5	76659.400	2.5
1166.3910	10.00	-2.82	164285.882	0.0	172856.990	1.0
1166.4057	15.01	-.27	131353.300	2.0	139924.300	2.0
1166.4193	7.01	-3.67	202765.260	2.0	211336.160	1.0
1166.4602	27.00	-3.17	45688.150	2.5	54258.750	2.5
1166.4683	23.00	-6.95	14949.300	4.5	23519.840	4.5
1166.4819	28.01	-2.45	128960.740	5.5	137531.180	4.5
1166.4901	27.00	-2.36	44201.920	2.5	52772.300	2.5
1166.5418	15.01	-.76	130174.300	2.0	138744.300	3.0
1166.6181	28.01	-2.07	128966.520	4.5	137535.960	3.5
1166.6358	28.01	-2.50	128966.520	5.5	137535.830	5.5
1166.6630	24.00	-3.34	46077.090	1.0	54646.200	0.0
1166.7158	9.00	-.48	117308.558	1.5	125877.280	1.5
1166.7259	22.00	-3.41	18911.399	2.0	27480.047	3.0
1166.7283	28.01	-3.38	128960.740	5.5	137529.370	6.5
1166.7283	28.01	-2.30	128960.740	6.5	137529.370	6.5
1166.7392	6.01	-3.36	179073.050	3.5	187641.600	3.5
1166.7392	6.01	-1.82	179073.050	4.5	187641.600	3.5
1166.7392	6.01	-1.93	179073.050	3.5	187641.600	2.5
1166.7556	25.00	-4.01	27201.540	2.5	35769.970	3.5
1166.7583	24.00	-3.55	35618.510	1.0	44186.920	2.0
1166.7651	28.01	-2.47	128950.870	3.5	137519.230	2.5
1166.7651	28.01	-2.26	128958.370	3.5	137526.730	2.5
1166.8441	25.00	-4.79	57305.620	3.5	65873.400	2.5
1166.8709	18.00	-.34	106237.597	2.0	114805.180	2.0
1166.8713	26.00	-4.55	43137.472	3.0	51705.052	2.0
1166.9244	28.01	-3.94	130321.740	5.5	138888.930	6.5
1166.9340	14.01	-3.72	119578.490	3.5	128145.610	3.5
1166.9340	14.01	-2.18	119578.490	4.5	128145.610	3.5
1166.9340	14.01	-2.29	119578.490	3.5	128145.610	2.5
1166.9503	30.02	-4.45	294302.800	4.0	302869.800	3.0
1166.9585	27.00	-4.26	46329.630	2.5	54896.570	3.5
1166.9640	6.00	-.24	70743.950	1.0	79310.850	2.0
1166.9661	26.00	-3.25	36766.950	3.0	45333.834	2.0
1166.9810	22.00	-2.47	27498.975	3.0	36065.750	3.0
1167.0048	29.01	-1.45	137649.100	2.0	146215.700	1.0
1167.0116	28.01	-2.19	128964.630	4.5	137531.180	4.5
1167.0142	7.00	-2.57	107588.469	.5	116155.000	1.5
1167.0142	7.00	-3.44	107588.469	.5	116155.000	.5
1167.0879	27.00	-3.39	43555.220	3.5	52121.210	4.5
1167.1321	26.00	-3.74	42815.814	5.0	51381.480	4.0
1167.1492	10.01	-4.06	312843.080	1.5	321408.620	2.5
1167.1533	12.01	-3.11	109074.000	5.5	117639.510	4.5
1167.1588	10.01	-2.92	312843.150	2.5	321408.620	2.5
1167.1628	12.01	-4.84	109074.070	4.5	117639.510	4.5
1167.1628	12.01	-3.20	109074.070	4.5	117639.510	3.5
1167.1833	10.01	-4.61	312843.150	2.5	321408.440	3.5
1167.2037	28.01	-3.74	128958.370	3.5	137523.510	3.5
1167.2515	18.00	-4.14	114641.040	2.0	123205.830	3.0
1167.2651	7.01	-4.41	221342.810	3.0	229907.500	4.0
1167.2692	28.01	-2.18	128966.520	5.5	137531.180	4.5
1167.2692	28.01	-3.85	128966.520	4.5	137531.180	4.5
1167.2910	7.01	-2.87	221343.000	4.0	229907.500	4.0
1167.3100	24.00	-2.40	46422.460	4.0	54986.820	3.0
1167.3551	18.01	-2.94	206103.450	1.5	214667.480	2.5
1167.4136	6.00	-.95	69744.030	3.0	78307.630	2.0
1167.5159	28.01	-3.66	128966.520	5.5	137529.370	6.5
1167.5227	10.01	-4.26	312843.150	2.5	321405.950	3.5
1167.5445	24.00	-3.68	46109.260	2.0	54671.900	1.0
1167.5517	26.00	-2.73	49135.003	3.0	57697.590	4.0
1167.5854	20.01	-3.35	78164.720	3.5	86727.060	3.5
1167.5854	20.01	-1.80	78164.720	4.5	86727.060	3.5
1167.5854	20.01	-1.91	78164.720	3.5	86727.060	2.5
1167.6209	15.00	-1.84	67113.820	2.5	75675.900	1.5
1167.6228	26.00	-2.82	39969.830	3.0	48531.896	3.0
1167.6645	27.00	-3.35	44201.920	2.5	52763.680	3.5
1167.6659	8.01	.87	246028.950	3.5	254590.700	4.5
1167.7518	23.00	-5.15	9636.960	1.5	18198.080	2.5
1167.7805	23.01	-2.87	30673.140	2.0	39234.050	3.0
1167.7873	28.01	-3.58	128958.370	3.5	137519.230	2.5
1167.7900	18.01	-.40	186470.280	1.5	195031.120	2.5
1167.8459	18.00	-.56	114147.750	1.0	122708.180	2.0
1167.9140	7.00	-4.44	107037.069	2.5	115597.000	1.5
1167.9182	17.01	-1.87	137770.100	0.0	146330.000	1.0
1167.9619	9.00	-3.87	129381.860	2.5	137941.440	2.5
1168.0029	21.00	-1.84	17025.360	1.5	25584.640	2.5
1168.0342	23.01	-3.85	44098.460	3.0	52657.510	4.0
1168.0561	28.01	-3.69	128960.740	6.5	137519.630	7.5
1168.0574	28.01	-2.21	128964.630	4.5	137523.510	3.5
1168.1613	26.00	-3.30	28604.610	2.0	37162.729	3.0
1168.2177	26.00	-4.97	45333.834	2.0	53891.540	3.0
1168.2525	22.00	-1.72	40466.979	2.0	49024.430	3.0
1168.2635	10.01	.10	283894.410	.5	292451.780	1.5
1168.2731	29.01	-.68	137938.900	4.0	146496.200	3.0
1168.3154	28.01	-3.56	128966.520	4.5	137523.510	3.5
1168.5598	17.01	-1.75	151019.000	2.0	159574.200	2.0
1168.5776	28.01	-4.92	100592.980	3.5	109148.050	4.5
1168.6869	28.01	-4.38	121227.800	2.5	129782.070	3.5
1168.7060	25.00	-4.65	35041.370	3.5	43595.500	2.5
1168.7086	28.00	-3.78	49032.589	2.0	57586.700	2.0
1168.7088	20.02	-2.85	362893.470	2.0	371447.580	1.0
1168.7212	10.00	-2.18	163707.721	1.0	172261.740	1.0
1168.7293	23.00	-1.71	28768.130	4.5	37322.090	3.5
1168.7548	28.00	-3.34	42790.027	2.0	51343.800	2.0
1168.7600	18.00	-1.60	106087.305	1.0	114641.040	2.0
1168.8195	15.01	-2.95	132397.700	2.0	140951.000	3.0
1168.8412	10.00	-1.76	163708.599	2.0	172261.740	1.0
1168.8659	24.00	-3.19	35572.940	2.0	44125.900	1.0
1168.9233	26.02	-4.49	189784.520	2.0	198337.060	3.0
1168.9370	27.00	-2.36	39649.160	3.5	48201.600	3.5
1168.9988	26.00	-2.43	17927.378	1.0	26479.366	1.0
1169.0204	19.00	.21	12985.170	.5	21537.000	1.5
1169.1284	18.01	-1.63	210609.360	3.5	219160.400	2.5
1169.2582	17.00	-1.39	83130.900	1.5	91680.990	1.5
1169.2966	26.00	-4.63	42911.897	5.0	51461.707	4.0
1169.3362	7.00	-2.91	106980.480	.5	115530.000	.5
1169.3362	7.00	-2.05	106980.480	.5	115530.000	1.5
1169.3540	28.01	-2.52	112906.930	1.5	121456.320	1.5
1169.3581	23.01	-4.14	64130.840	4.0	72680.200	5.0
1169.3622	26.00	-4.91	47177.210	1.0	55726.540	0.0
1169.3877	26.00	-4.09	45281.816	2.0	53830.960	3.0
1169.3950	21.00	-4.96	31172.620	1.5	39721.710	1.5
1169.4090	28.00	-4.43	50039.180	2.0	58588.168	3.0
1169.4429	27.00	-4.34	43911.360	1.5	52460.100	2.5
1169.4952	26.00	-3.34	45220.662	3.0	53769.020	4.0
1169.5606	23.00	-5.13	9824.580	2.5	18372.460	3.5
1169.6810	23.00	-2.76	30694.340	3.5	39241.340	2.5
1169.7143	28.00	-3.68	47030.148	3.0	55576.905	3.0
1169.7345	10.00	-2.49	163707.721	1.0	172254.330	0.0
1169.7836	26.00	-4.92	46137.140	3.0	54683.390	4.0
1169.7905	26.00	-4.88	45833.240	4.0	54379.440	3.0
1169.8384	26.00	-4.27	45294.830	5.0	53840.680	6.0
1169.9030	7.00	-3.11	107445.622	1.5	115991.000	2.5
1170.0239	14.00	-.97	50566.397	1.0	59110.892	2.0
1170.0399	7.00	-2.70	107445.622	1.5	115990.000	.5
1170.0399	7.00	-2.00	107445.622	1.5	115990.000	1.5
1170.0399	7.00	-2.11	107445.622	1.5	115990.000	2.5
1170.1054	13.01	-2.46	139588.700	4.0	148132.600	3.0
1170.1054	13.01	-3.13	139588.700	4.0	148132.600	3.0
1170.1054	13.01	-4.30	139588.700	3.0	148132.600	3.0
1170.1574	7.00	-2.18	106980.480	.5	115524.000	.5
1170.1574	7.00	-2.63	106980.480	.5	115524.000	1.5
1170.2961	28.00	-.94	43654.974	3.0	52197.482	3.0
1170.3533	24.00	-.49	48558.570	2.0	57100.660	2.0
1170.3560	9.01	-2.01	278159.210	3.0	286701.280	2.0
1170.3615	17.00	-2.52	91660.580	2.5	100202.610	1.5
1170.4068	28.02	-4.99	121412.200	2.0	129953.900	3.0
1170.4643	23.00	-6.91	9544.540	.5	18085.820	.5
1170.4794	28.01	-4.15	121240.900	3.5	129782.070	3.5
1170.5021	26.00	-3.90	49460.876	5.0	58001.880	6.0
1170.5575	23.01	-3.40	44159.430	2.0	52700.030	2.0
1170.6699	27.00	-2.57	43555.220	3.5	52095.000	3.5
1170.7082	17.01	-4.33	153257.000	2.0	161796.500	3.0
1170.7453	23.00	-8.32	14548.830	2.5	23088.060	1.5
1170.7494	7.00	-2.27	106477.800	.5	115017.000	.5
1170.7494	7.00	-1.90	106477.800	.5	115017.000	1.5
1170.7535	21.00	-4.79	31215.760	2.5	39754.930	2.5
1170.7812	7.00	-2.06	106996.032	1.5	115535.000	2.5
1170.8248	18.00	-.92	114147.750	1.0	122686.400	2.0
1170.8523	18.00	-1.83	114147.750	1.0	122686.200	1.0
1170.8852	27.00	-3.47	43921.890	2.5	52460.100	2.5
1170.8886	28.00	-3.02	42767.900	3.0	51306.085	3.0
1170.9071	24.00	-1.49	48558.570	2.0	57096.620	1.0
1170.9784	26.02	-4.49	189796.030	1.0	198333.560	2.0
1171.0374	23.00	-5.02	9636.960	1.5	18174.060	1.5
1171.0769	22.00	-3.72	18818.230	0.0	27355.042	1.0
1171.0799	22.00	-4.73	40302.950	3.0	48839.740	3.0
1171.1142	28.00	-4.10	50689.490	2.0	59226.030	1.0
1171.2271	7.00	-4.04	107628.283	1.5	116164.000	.5
1171.2271	7.00	-3.53	107628.283	1.5	116164.000	1.5
1171.2271	7.00	-2.78	107628.283	1.5	116164.000	2.5
1171.2527	7.00	-3.08	107588.469	.5	116124.000	.5
1171.2527	7.00	-3.98	107588.469	.5	116124.000	1.5
1171.2583	24.00	-4.08	36577.730	4.0	45113.220	3.0
1171.2967	22.00	-2.78	25635.740	1.0	34170.950	0.0
1171.3050	14.00	-4.67	50499.838	2.0	59034.988	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1171.3722	25.00	-4.69	57485.970	2.5	66020.630	2.5
1171.3764	7.01	-1.84	202170.630	1.0	210705.260	2.0
1171.4093	26.00	-3.58	49737.110	5.0	58271.500	5.0
1171.4171	28.00	-4.36	50458.187	1.0	58992.520	2.0
1171.4244	29.01	-1.65	138402.200	3.0	146936.480	2.0
1171.4671	7.00	-2.95	106996.032	1.5	115530.000	1.5
1171.4875	14.01	.37	103861.000	.5	112394.820	1.5
1171.4920	22.00	-3.48	28791.620	1.0	37325.407	2.0
1171.5004	14.00	-2.86	54185.264	1.0	62718.990	0.0
1171.5452	30.02	-2.26	294275.000	3.0	302808.400	4.0
1171.5548	26.01	-3.01	92216.420	1.5	100749.750	2.5
1171.6138	15.01	-2.25	130020.400	3.0	138553.300	2.0
1171.6962	13.01	-1.20	138811.900	2.0	147344.200	3.0
1171.6962	13.01	-2.10	138811.900	3.0	147344.200	3.0
1171.6976	27.00	-2.52	43537.710	1.5	52070.000	2.5
1171.8624	28.01	-3.53	104646.520	3.5	113177.610	3.5
1171.9136	7.00	-2.40	107628.283	1.5	116159.000	2.5
1171.9270	22.00	-4.92	28828.510	2.0	37359.130	2.0
1171.9366	23.00	-4.89	15078.250	.5	23608.800	1.5
1171.9448	22.00	-2.77	40384.580	1.0	48915.070	2.0
1171.9524	18.00	-1.16	105617.315	2.0	114147.750	1.0
1171.9640	18.01	-2.82	210630.050	2.5	219160.400	2.5
1171.9737	18.01	.03	210630.120	3.5	219160.400	2.5
1172.0410	18.01	.12	187589.230	2.5	196119.020	3.5
1172.0561	17.00	-.52	83130.900	1.5	91660.580	2.5
1172.0850	25.00	-4.80	35114.980	2.5	43644.450	1.5
1172.0946	17.01	-1.53	137804.400	1.0	146333.800	2.0
1172.1068	26.00	-3.96	47377.909	4.0	55907.220	5.0
1172.1287	22.00	-3.66	18825.890	1.0	27355.042	1.0
1172.1784	28.01	-3.01	100619.260	4.5	109148.050	4.5
1172.1911	26.00	-2.46	43163.282	4.0	51691.980	3.0
1172.1935	21.00	-4.64	31172.620	1.5	39701.300	.5
1172.2183	28.01	.14	121699.020	1.5	130227.520	2.5
1172.2526	6.00	-2.50	80562.850	1.0	89091.100	1.0
1172.2914	7.00	-4.45	106996.032	1.5	115524.000	.5
1172.2914	7.00	-3.12	106996.032	1.5	115524.000	1.5
1172.2914	7.00	-1.97	106996.032	1.5	115524.000	2.5
1172.3007	6.00	-4.16	89350.100	2.0	97878.000	2.0
1172.3241	24.00	-3.48	46677.060	2.0	55204.790	3.0
1172.3350	26.00	-4.55	47377.909	4.0	55905.560	4.0
1172.3725	7.00	-3.03	107445.622	1.5	115973.000	1.5
1172.3970	7.01	-4.36	221380.300	3.0	229907.500	4.0
1172.4176	23.00	-4.99	28462.150	2.5	36989.200	2.5
1172.4396	6.00	-3.47	79310.850	2.0	87837.740	1.0
1172.4396	6.00	-2.51	79310.850	2.0	87837.740	2.0
1172.4403	26.00	-3.50	45220.662	3.0	53747.547	3.0
1172.4634	7.00	-3.77	107628.283	1.5	116155.000	.5
1172.4657	28.01	-2.26	110573.360	2.5	119100.060	1.5
1172.5015	28.01	-3.83	104646.520	3.5	113172.960	4.5
1172.5332	18.01	-.84	186470.280	1.5	194996.490	1.5
1172.5433	26.00	-2.72	45964.944	2.0	54491.080	3.0
1172.5716	28.01	-2.36	108368.050	2.5	116893.980	2.5
1172.6005	28.01	-3.19	127867.130	4.5	136392.850	3.5
1172.6170	17.01	-2.03	137804.400	1.0	146330.000	1.0
1172.6982	24.00	-.47	48661.590	3.0	57186.600	3.0
1172.7207	17.00	-1.89	91660.580	2.5	100185.426	2.5
1172.7325	26.01	-4.67	84870.840	2.5	93395.600	2.5
1172.7491	17.00	-2.77	91660.580	2.5	100185.220	1.5
1172.7642	21.00	-4.84	31275.320	3.5	39799.850	3.5
1172.7945	25.00	-4.12	27201.540	2.5	35725.850	2.5
1172.8371	28.01	-3.06	107737.810	1.5	116261.810	.5
1172.8412	22.00	-1.51	38670.710	4.0	47194.680	4.0
1172.8466	26.00	-2.74	40404.492	1.0	48928.423	2.0
1172.8647	6.00	-3.36	64086.920	3.0	72610.720	2.0
1172.9885	6.00	-2.34	60333.430	0.0	68856.330	1.0
1173.0064	22.00	-5.00	39686.100	2.0	48208.870	3.0
1173.0353	6.00	-2.45	80562.850	1.0	89085.410	1.0
1173.1179	27.00	-3.73	45904.680	1.5	54426.640	1.5
1173.2501	10.03	.14	634413.000	2.5	642934.000	3.5
1173.2514	28.01	-4.14	98561.220	2.5	107082.210	2.5
1173.2680	6.00	-4.49	64089.850	1.0	72610.720	2.0
1173.2789	18.01	-1.41	186340.480	1.5	194861.270	2.5
1173.2817	24.00	-3.67	46688.240	3.0	55209.010	4.0
1173.3230	18.00	-.15	111667.870	0.0	120188.340	1.0
1173.4194	6.00	-3.57	64090.950	2.0	72610.720	2.0
1173.4442	28.01	-4.06	113172.960	4.5	121692.550	4.5
1173.4745	25.00	-4.67	45940.930	2.5	54460.300	2.5
1173.5255	23.00	-3.69	15000.840	5.5	23519.840	4.5
1173.5310	6.00	-2.25	79318.780	1.0	87837.740	1.0
1173.5310	6.00	-1.94	79318.780	1.0	87837.740	2.0
1173.5481	28.00	-3.24	42605.964	3.0	51124.800	3.0
1173.5572	6.00	-4.25	80562.850	1.0	89081.620	0.0
1173.5889	18.01	-.84	206148.940	3.5	214667.480	2.5
1173.5901	7.00	-3.56	107588.469	.5	116107.000	1.5
1173.5901	7.00	-3.46	107588.469	.5	116107.000	.5
1173.6908	25.01	.43	99892.500	2.0	108410.300	2.0
1173.7046	25.01	.43	99892.500	2.0	108410.200	3.0
1173.7262	22.00	-2.33	27614.667	4.0	36132.210	4.0
1173.7680	28.01	-4.09	121325.090	2.5	129842.330	2.5
1173.7942	6.00	-3.21	80562.850	1.0	89079.900	2.0
1173.8067	26.00	-4.86	37046.000	4.0	45562.959	3.0
1173.8631	24.00	-2.83	46688.240	3.0	55204.790	3.0
1173.8865	28.01	-4.10	120903.200	3.5	129419.580	4.5
1173.9155	6.00	-2.88	79310.850	2.0	87827.020	2.0
1173.9265	6.00	-1.72	79310.850	2.0	87826.940	3.0
1174.0078	25.01	-.14	99894.800	3.0	108410.300	2.0
1174.0216	25.01	.50	99894.800	3.0	108410.200	3.0
1174.0354	25.01	.69	99894.800	3.0	108410.100	4.0
1174.0896	37.00	-1.25	19355.203	0.0	27872.441	0.0
1174.0974	29.01	-3.75	128558.900	3.0	137073.750	2.0
1174.1071	27.00	-1.78	44201.920	2.5	52716.700	3.5
1174.1071	27.00	-2.92	43555.220	3.5	52070.000	2.5
1174.1347	6.00	-2.10	79323.160	0.0	87837.740	1.0
1174.1511	37.00	-2.20	19355.649	0.0	27872.440	0.0
1174.2422	29.01	-.76	137913.800	1.0	146427.600	1.0
1174.2864	25.01	-3.82	62564.700	1.0	71078.180	1.0
1174.3500	22.00	-4.70	37555.021	3.0	46068.040	4.0
1174.3801	18.01	-2.59	191012.350	1.5	199525.150	1.5
1174.3815	19.00	-2.33	24701.430	.5	33214.220	.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1174.4000	8.05	-1.01	666113.000	0.0	674627.986	0.0
1174.4115	20.00	-3.79	37748.197	1.0	46260.770	2.0
1174.4657	18.01	-1.27	181594.050	2.5	190106.230	1.5
1174.4864	29.01	-4.35	130386.400	2.0	138898.430	1.0
1174.5457	25.01	-.35	99898.600	4.0	108410.200	3.0
1174.5595	25.01	.47	99898.600	4.0	108410.100	4.0
1174.6009	25.01	.90	99898.600	4.0	108409.800	5.0
1174.6094	22.00	-4.99	32857.721	3.0	41368.860	4.0
1174.6327	24.00	-3.86	48824.500	4.0	57335.470	4.0
1174.6368	18.01	-1.81	182222.030	1.5	190732.970	.5
1174.6631	24.00	-3.02	48839.900	1.0	57350.650	2.0
1174.6665	26.00	-2.33	43434.585	3.0	51945.310	2.0
1174.7031	20.02	-3.44	361794.080	1.0	370304.540	2.0
1174.7335	18.01	-1.05	191169.520	1.5	199679.760	2.5
1174.7390	7.00	-2.58	106477.800	.5	114988.000	.5
1174.7390	7.00	-3.21	106477.800	.5	114988.000	1.5
1174.7414	20.00	-2.62	37748.197	1.0	46258.380	1.0
1174.8231	6.00	.35	69689.480	1.0	78199.070	2.0
1174.8397	14.01	.62	103885.510	1.5	112394.980	2.5
1174.8452	17.00	-1.84	91660.580	2.5	100170.010	2.5
1174.8618	14.01	-.33	103885.510	1.5	112394.820	1.5
1174.8632	28.02	-4.69	121802.800	3.0	130312.100	4.0
1174.8687	17.00	-1.58	91660.580	2.5	100169.840	3.5
1174.8701	18.01	-2.55	196076.390	1.5	204585.640	2.5
1174.8977	6.00	-4.66	79310.850	2.0	87819.900	3.0
1174.9180	20.00	-3.02	37751.867	2.0	46260.770	2.0
1174.9999	24.00	-3.57	27703.840	4.0	36212.150	4.0
1175.0096	6.00	-2.42	79318.780	1.0	87827.020	2.0
1175.1270	24.00	-3.08	35618.510	1.0	44125.900	1.0
1175.1435	12.01	-1.43	103689.890	2.5	112197.160	1.5
1175.1573	12.01	-1.27	103689.890	3.5	112197.060	2.5
1175.1573	12.01	-2.57	103689.890	2.5	112197.060	2.5
1175.1809	25.01	-.75	99903.100	5.0	108410.100	4.0
1175.2223	25.01	.29	99903.100	5.0	108409.800	5.0
1175.2223	25.01	1.07	99903.100	5.0	108409.800	6.0
1175.2339	22.00	-3.87	18911.399	2.0	27418.015	2.0
1175.2481	20.00	-2.54	37751.867	2.0	46258.380	1.0
1175.2679	24.00	-4.12	46298.320	1.0	54804.690	1.0
1175.3163	28.01	-4.75	112686.300	2.5	121192.320	3.5
1175.3218	25.01	-4.39	62572.200	2.0	71078.180	1.0
1175.3259	21.00	-4.45	31215.760	2.5	39721.710	1.5
1175.3315	6.00	.69	69744.030	3.0	78249.940	4.0
1175.3356	27.00	-2.78	45971.190	3.5	54477.070	3.5
1175.3692	17.00	-1.62	91660.580	2.5	100166.217	3.5
1175.3743	30.02	-3.99	294302.800	4.0	302808.400	4.0
1175.3771	28.01	-4.66	106369.300	1.5	114874.880	2.5
1175.4780	6.00	.44	69710.660	2.0	78215.510	3.0
1175.5222	22.00	-1.95	33680.130	3.0	42184.660	4.0
1175.5678	17.01	-2.58	131754.800	1.0	140259.000	2.0
1175.5747	29.01	-4.44	128569.600	2.0	137073.750	2.0
1175.5913	24.00	-2.00	46704.980	5.0	55209.010	4.0
1175.6037	24.00	-4.92	33934.880	3.0	42438.820	2.0
1175.6106	18.01	-1.99	190942.650	.5	199446.540	.5
1175.6369	6.00	-2.17	60352.630	1.0	68856.330	1.0
1175.6742	27.00	-2.44	43537.710	1.5	52041.140	.5
1175.6785	17.00	-3.21	87979.490	3.5	96482.889	2.5
1175.6893	20.00	-1.87	37757.449	3.0	46260.770	2.0
1175.7102	24.00	-5.00	33935.650	2.0	42438.820	2.0
1175.7116	24.00	.25	48824.500	4.0	57327.660	5.0
1175.8001	7.00	-3.49	106980.480	.5	115483.000	.5
1175.8001	7.00	-2.39	106980.480	.5	115483.000	1.5
1175.8581	15.00	-2.92	64239.500	.5	72741.600	1.5
1175.8858	29.01	-4.26	137913.800	1.0	146415.700	2.0
1175.8927	18.01	-1.67	210658.550	1.5	219160.400	2.5
1175.9079	18.01	-.34	210658.660	2.5	219160.400	2.5
1175.9411	30.02	-2.75	294302.800	4.0	302804.300	5.0
1175.9570	20.00	-1.00	36547.688	0.0	45049.073	1.0
1176.0324	27.00	-4.20	44201.920	2.5	52702.760	1.5
1176.0564	22.00	-1.73	37743.933	3.0	46244.600	2.0
1176.0601	18.01	-.95	187589.230	2.5	196089.870	2.5
1176.0656	28.02	-4.95	121412.200	2.0	129912.800	2.0
1176.1487	19.02	-4.11	237512.000	2.5	246012.000	1.5
1176.2151	7.00	-3.23	106980.480	.5	115480.000	.5
1176.2151	7.00	-3.22	106980.480	.5	115480.000	1.5
1176.2354	17.00	-3.60	90193.640	4.5	98693.013	3.5
1176.2386	26.00	-4.49	49502.530	5.0	58001.880	6.0
1176.2469	28.00	-2.45	50689.490	2.0	59188.780	3.0
1176.2510	17.00	-3.33	74865.667	.5	83364.927	.5
1176.2787	23.01	-3.37	44200.970	1.0	52700.030	2.0
1176.2829	16.01	-1.16	155818.370	2.5	164317.400	1.5
1176.3452	10.01	-.72	294333.220	.5	302831.800	.5
1176.3964	28.01	.08	121699.020	1.5	130197.230	1.5
1176.4350	7.00	-2.77	107037.069	2.5	115535.000	2.5
1176.4350	7.00	-2.19	107037.069	2.5	115535.000	3.5
1176.5044	25.00	-4.85	56490.790	2.5	64988.220	3.5
1176.5695	25.01	-8.56	29869.110	2.0	38366.070	2.0
1176.5782	22.00	-3.00	28828.510	2.0	37325.407	2.0
1176.5805	22.00	-2.32	35757.510	4.0	44254.390	3.0
1176.6331	15.01	-2.96	130913.700	3.0	139410.200	2.0
1176.6791	10.00	-.57	151038.452	1.0	159534.620	1.0
1176.7342	18.01	-3.93	196089.870	2.5	204585.640	2.5
1176.7416	7.00	-3.39	107628.283	1.5	116124.000	.5
1176.7416	7.00	-3.29	107628.283	1.5	116124.000	1.5
1176.7481	20.00	-1.16	36554.749	1.0	45050.419	2.0
1176.7647	27.00	-3.09	43537.710	1.5	52033.260	1.5
1176.8298	23.02	-3.44	154265.200	3.5	162760.280	4.5
1176.8352	26.00	-4.69	43210.011	2.0	51705.052	2.0
1176.9346	20.00	-1.13	36554.749	1.0	45049.073	1.0
1176.9573	24.00	-4.38	25177.390	4.0	33671.550	3.0
1176.9586	18.01	-1.31	149179.170	3.5	157673.320	2.5
1176.9628	19.00	-.49	13042.880	1.5	21537.000	1.5
1176.9684	28.01	-2.89	109269.830	1.5	117763.910	1.5
1176.9725	19.00	-2.03	24720.170	1.5	33214.220	.5
1176.9947	27.00	-3.79	44782.130	4.5	53276.020	4.5
1177.0100	22.00	-1.70	38544.380	3.0	47038.160	3.0
1177.0224	27.00	-3.94	46671.940	2.5	55165.630	2.5
1177.0580	22.00	-4.30	39715.437	3.0	48208.870	3.0
1177.0737	23.01	-4.88	64057.390	3.0	72550.710	4.0
1177.1276	7.00	-3.14	107037.069	2.5	115530.000	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1177.2817	19.00	.46	13042.880	1.5	21534.700	2.5
1177.3080	23.00	-2.70	30635.600	2.5	39127.230	1.5
1177.3523	6.00	-2.81	80562.850	1.0	89054.160	2.0
1177.3717	28.00	-3.89	50039.180	2.0	58530.350	3.0
1177.3828	27.00	-4.82	16778.160	2.5	25269.250	3.5
1177.3953	17.01	-1.77	131768.000	2.0	140259.000	2.0
1177.4577	22.00	-2.29	38159.710	3.0	46650.260	3.0
1177.5687	22.00	-2.35	40369.760	0.0	48859.510	1.0
1177.6297	23.00	-5.10	9636.960	1.5	18126.270	1.5
1177.7005	28.01	-2.43	101357.200	4.5	109846.000	3.5
1177.7462	24.00	-2.42	46720.540	4.0	55209.010	4.0
1177.7504	25.00	-4.32	27201.540	2.5	35689.980	1.5
1177.7545	6.00	-.96	69710.660	2.0	78199.070	2.0
1177.8638	26.00	-4.42	46888.494	2.0	55376.117	1.0
1177.8947	28.01	-3.54	121294.670	4.5	129782.070	3.5
1177.9280	18.01	-2.27	187589.230	2.5	196076.390	1.5
1177.9447	28.00	-4.83	50142.800	3.0	58629.840	2.0
1177.9516	6.00	-3.73	78731.270	1.0	87218.260	2.0
1177.9547	7.00	-2.79	106996.032	1.5	115483.000	.5
1177.9547	7.00	-2.89	106996.032	1.5	115483.000	1.5
1177.9547	7.00	-2.41	106996.032	1.5	115483.000	2.5
1177.9598	7.00	-4.56	107037.069	2.5	115524.000	1.5
1177.9598	7.00	-3.42	107037.069	2.5	115524.000	2.5
1177.9598	7.00	-1.93	107037.069	2.5	115524.000	3.5
1177.9849	28.00	-4.63	50142.800	3.0	58629.550	3.0
1178.0542	22.00	-2.40	11639.804	3.0	20126.055	3.0
1178.1404	28.01	-3.09	122084.790	1.5	130570.420	.5
1178.1765	28.01	-.40	121699.020	1.5	130184.390	2.5
1178.1820	9.00	-1.37	117391.950	.5	125877.280	1.5
1178.1987	24.00	-3.43	35640.690	0.0	44125.900	1.0
1178.2973	29.01	-.72	137938.900	4.0	146423.400	4.0
1178.3025	14.00	-1.20	54185.264	1.0	62669.727	2.0
1178.3275	26.00	-1.92	22838.320	2.0	31322.603	3.0
1178.3320	24.00	-3.49	46720.540	4.0	55204.790	3.0
1178.3459	25.00	-1.74	41403.930	2.5	49888.080	3.5
1178.3712	7.00	-2.53	106996.032	1.5	115480.000	.5
1178.3712	7.00	-3.71	106996.032	1.5	115480.000	1.5
1178.3965	22.00	-1.49	33700.874	4.0	42184.660	4.0
1178.4001	10.01	-.41	294333.220	.5	302816.980	1.5
1178.4473	22.01	-4.71	62409.580	3.5	70893.000	3.5
1178.4473	15.00	-3.10	57876.700	.5	66360.120	1.5
1178.4678	14.00	-3.03	48020.074	1.0	56503.346	2.0
1178.4834	23.00	-5.69	9636.960	1.5	18120.120	.5
1178.5148	28.00	-4.31	49327.560	3.0	57810.494	4.0
1178.7558	17.01	-1.56	151093.000	3.0	159574.200	2.0
1178.8475	8.00	-2.01	99092.980	1.0	107573.520	0.0
1178.8481	8.00	-1.65	99092.980	1.0	107573.516	1.0
1178.8493	8.00	-1.76	99092.980	1.0	107573.507	2.0
1178.9044	10.00	-.73	150315.861	2.0	158795.992	1.0
1178.9156	18.01	-2.08	147227.970	.5	155708.020	.5
1178.9226	23.00	-4.96	28595.640	3.5	37075.640	4.5
1178.9416	8.00	-2.13	99093.653	2.0	107573.516	1.0
1178.9421	28.01	-4.16	101366.140	2.5	109846.000	3.5
1178.9429	8.00	-1.54	99093.653	2.0	107573.507	2.0
1178.9444	8.00	-1.34	99093.653	2.0	107573.496	3.0
1178.9768	21.00	-4.26	31275.320	3.5	39754.930	2.5
1178.9879	10.01	-2.33	283322.350	1.5	291801.880	1.5
1178.9889	10.00	-1.41	150121.592	1.0	158601.115	2.0
1179.0101	37.00	-1.51	19355.649	0.0	27837.341	0.0
1179.0797	28.01	-2.50	112906.930	1.5	121385.600	1.5
1179.1010	7.00	-2.87	107628.283	1.5	116107.000	1.5
1179.1010	7.00	-3.77	107628.283	1.5	116107.000	.5
1179.1092	8.00	-2.48	99094.849	3.0	107573.507	2.0
1179.1108	8.00	-1.64	99094.849	3.0	107573.496	3.0
1179.1119	8.00	-1.05	99094.849	3.0	107573.488	4.0
1179.1312	28.01	-4.00	128799.720	.5	137278.220	1.5
1179.1687	14.01	-1.72	114177.400	3.5	122655.630	2.5
1179.1854	14.01	-1.60	114177.400	4.5	122655.510	3.5
1179.1854	14.01	-3.15	114177.400	3.5	122655.510	3.5
1179.2438	23.00	-4.69	9824.580	2.5	18302.270	3.5
1179.3043	20.00	-.37	36575.119	2.0	45052.374	3.0
1179.3587	10.00	-2.06	163012.621	1.0	171489.485	1.0
1179.3664	26.00	-2.59	43633.491	2.0	52110.300	1.0
1179.3676	19.00	-2.94	24701.430	.5	33178.230	1.5
1179.3732	25.01	-5.20	29889.310	3.0	38366.070	2.0
1179.3829	22.00	-4.93	28882.440	3.0	37359.130	2.0
1179.4692	29.01	-2.95	128558.900	3.0	137034.970	3.0
1179.4887	25.00	-4.17	57485.970	2.5	65961.900	1.5
1179.4971	9.02	-4.35	457715.100	2.5	466190.970	3.5
1179.5569	23.02	-3.32	153112.600	3.5	161588.040	3.5
1179.5763	20.00	-1.52	36575.119	2.0	45050.419	2.0
1179.6167	28.01	-.55	121699.020	1.5	130174.030	1.5
1179.6279	22.00	-2.65	40384.580	1.0	48859.510	1.0
1179.6827	26.00	-3.82	45333.834	2.0	53808.370	1.0
1179.7143	26.00	-3.97	46901.808	1.0	55376.117	1.0
1179.7195	22.00	-2.49	11531.760	2.0	20006.032	2.0
1179.7239	27.00	-3.53	46002.830	2.5	54477.070	3.5
1179.7638	20.00	-2.30	36575.119	2.0	45049.073	1.0
1179.8014	9.00	-.69	117164.006	2.5	125637.690	2.5
1179.9127	28.00	-1.16	45281.152	3.0	53754.036	2.0
1179.9263	10.00	-4.13	162410.174	3.0	170882.960	3.0
1179.9263	10.00	-2.72	162410.174	3.0	170882.960	4.0
1179.9467	6.00	-4.12	78529.620	3.0	87002.260	3.0
1180.0080	7.00	-2.67	106477.800	.5	114950.000	.5
1180.0080	7.00	-2.50	106477.800	.5	114950.000	1.5
1180.0349	10.00	-3.61	162408.653	2.0	170880.660	2.0
1180.0349	10.00	-2.46	162408.653	2.0	170880.660	3.0
1180.1083	6.00	-2.39	69744.030	3.0	78215.510	3.0
1180.1286	26.00	-3.90	42859.756	2.0	51331.090	2.0
1180.1320	16.01	-4.84	143623.030	1.5	152094.340	2.5
1180.1922	20.00	-4.80	39335.322	1.0	47806.200	1.0
1180.2030	16.01	-4.33	143488.610	.5	151959.410	1.5
1180.2468	10.00	-4.62	162410.174	3.0	170880.660	2.0
1180.2468	10.00	-3.33	162410.174	3.0	170880.660	3.0
1180.2546	26.00	-3.64	49227.160	3.0	57697.590	4.0
1180.3228	27.00	-3.81	44394.470	3.5	52864.410	4.5
1180.3841	13.01	-1.46	138799.300	0.0	147268.800	1.0
1180.4051	27.00	-4.54	45957.290	.5	54426.640	1.5
1180.4452	28.00	-2.84	40484.282	2.0	48953.344	1.0
1180.4469	24.00	-3.89	46349.500	2.0	54818.550	2.0
1180.4789	28.01	-2.26	109846.000	3.5	118314.820	2.5
1180.7177	10.00	-3.99	162408.653	2.0	170875.760	1.0
1180.7177	10.00	-3.04	162408.653	2.0	170875.760	2.0
1180.7782	26.00	-4.15	43137.472	3.0	51604.146	3.0
1180.7843	15.00	-3.80	57876.700	.5	66343.330	.5
1180.7857	18.01	-.62	196119.020	3.5	204585.640	2.5
1180.8554	20.00	-4.57	39340.080	2.0	47806.200	1.0
1180.8777	26.00	-4.09	45913.480	3.0	54379.440	3.0
1180.9097	26.00	-4.24	45281.816	2.0	53747.547	3.0
1180.9299	10.00	-4.60	162410.174	3.0	170875.760	2.0
1180.9600	29.01	-3.56	128569.600	2.0	137034.970	3.0
1181.0623	14.00	-1.39	54205.090	2.0	62669.727	2.0
1181.1261	28.01	-4.55	121317.890	3.5	129782.070	3.5
1181.1409	14.00	-1.44	54205.090	2.0	62669.164	3.0
1181.1512	29.01	.58	137938.900	4.0	146402.900	5.0
1181.1558	12.00	-1.04	47844.414	1.0	56308.381	2.0
1181.2238	25.00	-2.61	51638.170	2.5	60101.650	2.5
1181.2377	18.01	-4.32	155043.070	2.5	163506.450	3.5
1181.2642	25.00	-3.63	57305.620	3.5	65768.810	4.5
1181.2643	6.00	-3.47	60393.140	2.0	68856.330	1.0
1181.2939	10.00	-2.85	162419.982	2.0	170882.960	3.0
1181.3281	14.00	-3.97	54205.090	2.0	62667.823	3.0
1181.3689	24.00	-3.64	29420.900	1.0	37883.340	2.0
1181.3881	26.00	-2.94	47960.973	4.0	56423.276	4.0
1181.4010	27.00	-4.22	44394.470	3.5	52856.680	3.5
1181.4232	28.00	-2.17	49327.560	3.0	57789.611	4.0
1181.4289	18.00	-4.64	114147.750	1.0	122609.760	1.0
1181.4541	24.00	-4.79	33113.270	4.0	41575.100	3.0
1181.5840	25.00	-4.90	57485.970	2.5	65946.870	2.5
1181.5937	28.01	-4.18	106620.530	3.5	115081.360	4.5
1181.5993	28.01	-3.95	112719.750	3.5	121180.540	4.5
1181.6130	10.00	-2.76	163012.621	1.0	171473.313	2.0
1181.6150	10.00	-3.48	162419.982	2.0	170880.660	2.0
1181.6150	10.00	-4.60	162419.982	2.0	170880.660	3.0
1181.7097	15.01	-1.50	130950.200	2.0	139410.200	2.0
1181.8759	28.01	-4.50	112719.750	3.5	121176.560	3.5
1181.9038	6.00	-1.79	69689.480	1.0	78148.090	2.0
1181.9807	19.00	-3.59	24720.170	1.5	33176.230	1.5
1181.9961	19.00	-2.63	24720.170	1.5	33178.120	2.5
1182.0226	26.01	-4.96	84870.840	2.5	93328.600	1.5
1182.0324	18.01	-4.58	200880.520	3.5	209338.210	3.5
1182.0618	28.01	-4.28	122112.940	.5	130570.420	.5
1182.0800	18.01	-3.65	200880.520	3.5	209337.870	4.5
1182.0983	12.00	-1.52	47851.162	2.0	56308.381	2.0
1182.1428	13.01	-3.37	138811.900	2.0	147268.800	1.0
1182.1428	13.01	-3.85	138811.900	1.0	147268.800	1.0
1182.1596	9.00	-2.38	129484.660	1.5	137941.440	2.5
1182.1946	28.01	-4.96	121385.800	1.5	129842.330	2.5
1182.2001	27.00	-3.67	42811.440	3.5	51267.930	4.5
1182.2109	18.00	-2.89	114805.180	2.0	123261.593	2.0
1182.2158	7.00	-2.02	107445.622	1.5	115902.000	2.5
1182.2407	17.01	-2.09	137877.600	2.0	146333.800	2.0
1182.2547	28.01	-2.16	108368.050	2.5	116824.150	2.5
1182.2700	28.01	-3.96	128822.230	1.5	137278.220	1.5
1182.2885	26.00	-1.98	43163.282	4.0	51619.140	3.0
1182.2997	10.00	-4.79	162419.982	2.0	170875.760	1.0
1182.3526	8.02	-2.83	370900.600	2.0	379356.000	3.0
1182.3721	28.01	-4.93	113407.310	2.5	121862.570	3.5
1182.3819	24.00	-3.71	46349.500	2.0	54804.690	1.0
1182.4029	6.00	-3.39	69744.030	3.0	78199.070	2.0
1182.4479	26.00	-3.97	49242.872	3.0	57697.590	4.0
1182.4727	26.00	-4.56	47271.999	1.0	55726.540	0.0
1182.5959	28.01	-3.05	107737.810	1.5	116191.470	2.5
1182.6286	18.00	-4.29	116660.054	1.0	125113.480	2.0
1182.6757	25.01	-4.97	73683.110	4.0	82136.200	4.0
1182.7239	26.00	-2.14	36975.640	3.0	45428.385	4.0
1182.7512	8.01	-.20	246028.950	3.5	254481.500	3.5
1182.7708	25.00	-.42	47903.800	4.5	56356.210	3.5
1182.7722	17.01	-3.28	137877.600	2.0	146330.000	1.0
1182.7736	6.00	-2.50	79310.850	2.0	87763.240	3.0
1182.8186	12.00	-.29	35051.264	1.0	43503.333	0.0
1182.8561	15.01	-2.01	131353.300	2.0	139805.100	3.0
1182.9163	6.00	-2.93	79310.850	2.0	87762.220	2.0
1182.9303	6.00	-1.87	79310.850	2.0	87762.120	3.0
1182.9494	10.00	-2.21	163038.351	2.0	171489.485	1.0
1182.9565	22.00	-3.26	27614.667	4.0	36065.750	3.0
1182.9939	22.00	-2.16	27750.124	5.0	36200.940	5.0
1183.0171	14.03	-.63	328200.040	3.5	336650.690	3.5
1183.0171	14.03	.91	328200.040	3.5	336650.690	4.5
1183.0171	14.03	.80	328200.040	2.5	336650.690	3.5
1183.0593	22.00	-2.08	31190.631	2.0	39640.980	3.0
1183.0801	24.00	-2.63	46368.350	3.0	54818.550	2.0
1183.0841	22.00	-4.42	37617.868	4.0	46068.040	4.0
1183.1025	27.00	-2.44	46454.950	1.5	54904.990	2.5
1183.1348	18.00	-4.07	114805.180	2.0	123254.990	1.0
1183.2426	21.00	-4.06	31350.810	4.5	39799.850	3.5
1183.2552	28.00	-2.26	47424.830	1.0	55873.780	2.0
1183.2678	23.00	-5.43	9636.960	1.5	18085.820	.5
1183.2692	28.01	-.91	121699.020	1.5	130147.870	.5
1183.3462	17.01	-1.72	141350.000	3.0	149798.300	2.0
1183.3616	24.00	-4.47	38537.680	5.0	46985.870	5.0
1183.3644	28.01	-1.63	109846.000	3.5	118294.170	3.5
1183.3755	22.00	-2.82	40466.979	2.0	48915.070	2.0
1183.4709	23.00	-4.47	19023.470	4.5	27470.880	3.5
1183.5129	6.00	-2.03	81325.760	1.0	89772.870	2.0
1183.5493	25.01	-6.61	29919.220	2.0	38366.070	2.0
1183.6781	7.00	-2.36	107037.069	2.5	115483.000	1.5
1183.6781	7.00	-2.04	107037.069	2.5	115483.000	2.5
1183.6804	26.00	-3.54	45428.385	4.0	53874.300	5.0
1183.7432	22.00	-4.23	37622.573	3.0	46068.040	4.0
1183.7570	28.00	-3.34	50142.800	3.0	58588.168	3.0
1183.8111	10.00	-2.81	162435.678	1.0	170880.660	2.0
1183.8128	27.00	-4.41	46032.100	4.5	54477.070	3.5
1183.8535	23.01	-3.15	44159.430	2.0	52604.110	1.0
1183.8566	26.00	-4.87	45294.830	5.0	53739.488	5.0
1183.8731	23.00	-2.59	19026.340	2.5	27470.880	3.5
1183.8998	20.01	.30	52166.930	.5	60611.280	1.5
1183.9989	22.00	-4.74	18911.399	2.0	27355.042	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1184.0273	6.00	-2.47	79318.780	1.0	87762.220	2.0
1184.0360	7.00	-2.28	107445.622	1.5	115889.000	.5
1184.0820	23.00	-5.82	14910.040	3.5	23353.090	3.5
1184.0890	10.03	-.55	633465.000	.5	641908.000	.5
1184.0937	22.00	-2.99	28882.440	3.0	37325.407	2.0
1184.0987	7.00	-3.19	107037.069	2.5	115480.000	1.5
1184.1199	27.00	-4.85	46002.830	2.5	54445.610	2.5
1184.1353	28.00	-1.86	34163.294	2.0	42605.964	3.0
1184.2672	28.01	-4.81	130661.320	5.5	139103.050	5.5
1184.3166	7.00	-3.17	107445.622	1.5	115887.000	.5
1184.3166	7.00	-2.34	107445.622	1.5	115887.000	1.5
1184.3166	7.00	-2.32	107445.622	1.5	115887.000	2.5
1184.3640	29.01	-4.46	136442.050	3.0	144883.090	2.0
1184.4790	27.00	-4.72	46872.740	3.5	55312.960	4.5
1184.4818	17.01	-3.70	151134.000	1.0	159574.200	2.0
1184.4984	10.00	-3.32	162435.678	1.0	170875.760	1.0
1184.5657	18.00	-2.80	114821.990	3.0	123261.593	2.0
1184.6206	7.00	-3.07	107182.788	1.5	115622.000	2.5
1184.6405	24.00	-1.50	48661.590	3.0	57100.660	2.0
1184.6871	26.00	-3.80	43022.969	4.0	51461.707	4.0
1184.7050	18.01	-.83	196076.390	1.5	204515.000	.5
1184.7053	26.00	-4.03	42911.897	5.0	51350.505	4.0
1184.7275	17.00	-4.70	94663.670	1.5	103102.120	1.5
1184.8370	17.00	-3.74	94663.670	1.5	103101.340	2.5
1184.8591	28.00	-2.46	47139.392	2.0	55576.905	3.0
1184.8707	6.00	-.68	69710.660	2.0	78148.090	2.0
1184.9311	24.00	-3.50	27597.220	3.0	36034.220	3.0
1185.0828	28.01	-4.73	121800.340	1.5	130236.260	2.5
1185.0954	6.00	-4.53	78529.620	3.0	86965.450	2.0
1185.1039	24.00	-4.96	25106.340	3.0	33542.110	2.0
1185.1232	8.00	-2.39	99680.968	1.0	108116.600	1.0
1185.1232	8.00	-1.91	99680.968	1.0	108116.600	2.0
1185.1346	8.00	-3.57	99681.049	2.0	108116.600	1.0
1185.1346	8.00	-2.39	99681.049	2.0	108116.600	2.0
1185.1346	8.00	-1.64	99681.049	2.0	108116.600	3.0
1185.1712	8.00	-2.27	99681.309	0.0	108116.600	1.0
1185.1823	7.00	-3.83	107182.788	1.5	115618.000	1.5
1185.1823	7.00	-2.94	107182.788	1.5	115618.000	2.5
1185.2007	20.00	-.81	36554.749	1.0	44989.830	2.0
1185.2128	22.00	-2.93	31205.985	3.0	39640.980	3.0
1185.2174	10.00	-1.93	163038.351	2.0	171473.313	2.0
1185.2247	6.00	-4.26	81343.990	2.0	89778.900	3.0
1185.2815	26.00	-4.47	42859.756	2.0	51294.262	3.0
1185.3090	23.00	-5.34	9824.580	2.5	18258.890	2.5
1185.3259	18.01	-2.97	191012.350	1.5	199446.540	.5
1185.4046	16.01	-4.16	155818.370	2.5	164252.000	1.5
1185.4201	26.00	-2.89	45833.240	4.0	54266.760	5.0
1185.4369	17.00	-2.76	83130.900	1.5	91564.300	.5
1185.5255	29.01	-4.24	130386.400	2.0	138819.170	3.0
1185.6273	28.00	-3.35	48671.900	3.0	57103.946	3.0
1185.8402	20.00	-1.02	37751.867	2.0	46182.399	3.0
1185.8841	16.01	-.75	156029.280	1.5	164459.500	2.5
1185.9207	23.00	-4.69	28595.640	3.5	37025.600	3.5
1185.9364	22.00	-2.56	38764.832	3.0	47194.680	4.0
1185.9460	24.00	-4.18	37233.500	5.0	45663.280	5.0
1186.0262	6.00	-1.76	81343.990	2.0	89773.200	3.0
1186.0459	28.01	-4.31	121050.660	2.5	129479.730	1.5
1186.0529	18.01	-3.28	202155.860	2.5	210584.880	1.5
1186.0726	6.00	-2.46	81343.990	2.0	89772.870	2.0
1186.1162	28.00	-2.24	50689.490	2.0	59118.060	2.0
1186.1275	10.01	-.12	282375.330	1.5	290803.820	.5
1186.2767	24.00	-4.59	39158.630	4.0	47586.060	5.0
1186.3006	6.00	-.74	69689.480	1.0	78116.740	1.0
1186.3231	24.00	-4.40	48558.570	2.0	56985.670	3.0
1186.3471	22.00	-2.39	33680.130	3.0	42107.060	4.0
1186.3598	7.01	-4.16	221322.860	5.0	229749.700	4.0
1186.3920	14.00	-2.73	48264.292	3.0	56690.903	2.0
1186.4344	20.02	-2.15	363021.270	2.0	371447.580	1.0
1186.4625	24.00	-4.87	48661.590	3.0	57087.700	2.0
1186.5320	20.00	-2.04	39340.080	2.0	47765.697	3.0
1186.6323	10.00	-3.41	162899.113	2.0	171324.017	1.0
1186.6742	17.00	.05	82918.893	2.5	91343.500	2.5
1186.7104	28.01	-4.42	128853.870	2.5	137278.220	1.5
1186.7865	27.00	-4.97	46002.830	2.5	54426.640	1.5
1186.7935	25.00	-3.31	51718.220	1.5	60141.980	.5
1186.8093	10.00	-3.90	163657.268	1.0	172080.916	1.0
1186.8682	23.01	-4.95	64603.530	3.0	73026.760	2.0
1186.9132	14.03	-.40	313914.920	1.5	322337.830	1.5
1186.9132	14.03	.56	313914.920	2.5	322337.830	1.5
1187.0466	20.00	-2.29	39335.322	1.0	47757.286	2.0
1187.0542	18.01	-2.50	206245.570	3.5	214667.480	2.5
1187.0851	26.00	-4.32	47960.973	4.0	56382.664	5.0
1187.1092	28.01	-3.68	104298.230	4.5	112719.750	3.5
1187.1275	22.00	-3.99	40302.950	3.0	48724.340	2.0
1187.1374	22.00	-4.15	39686.100	2.0	48107.420	2.0
1187.1520	26.00	-4.57	45964.944	2.0	54386.160	1.0
1187.2516	6.00	-2.97	81105.030	1.0	89525.540	1.0
1187.2671	13.01	-2.35	134181.200	4.0	142601.600	3.0
1187.2671	13.01	-2.13	134181.200	4.0	142601.600	3.0
1187.2896	9.00	-3.57	129381.860	2.5	137802.100	2.5
1187.4260	20.00	-2.61	39333.382	0.0	47752.655	1.0
1187.4490	24.00	-4.54	37244.170	4.0	45663.280	5.0
1187.4829	18.01	-4.30	183914.560	.5	192333.430	.5
1187.5830	28.01	-3.09	112906.930	1.5	121325.090	2.5
1187.6028	16.01	-1.64	156029.280	1.5	164447.300	2.5
1187.6944	6.00	-1.85	81105.030	1.0	89522.400	2.0
1187.6997	20.00	-2.70	39335.322	1.0	47752.655	1.0
1187.7176	20.00	-2.69	39340.080	2.0	47757.286	2.0
1187.8247	20.00	-1.27	37748.197	1.0	46164.644	2.0
1187.8314	15.01	-.64	130993.800	3.0	139410.200	2.0
1187.8827	28.00	-2.22	49327.560	3.0	57743.596	3.0
1187.9514	18.00	-4.59	114805.180	2.0	123220.730	2.0
1187.9584	6.00	-.64	69689.480	1.0	78104.980	0.0
1187.9992	18.00	-1.23	112750.220	4.0	121165.431	3.0
1188.0329	26.00	-4.63	45551.748	1.0	53966.720	2.0
1188.0360	25.01	-6.10	29951.120	1.0	38366.070	2.0
1188.0389	25.00	-1.33	47774.520	3.5	56189.450	4.5
1188.0417	27.00	-3.16	44555.710	1.5	52970.620	2.5
1188.0697	20.00	-1.35	36575.119	2.0	44989.830	2.0
1188.1001	26.00	-3.35	45964.944	2.0	54379.440	3.0
1188.1402	7.00	-2.56	107182.788	1.5	115597.000	1.5
1188.1521	10.00	-4.61	163657.268	1.0	172071.396	2.0
1188.1617	9.01	-1.76	227228.420	1.0	235642.480	1.0
1188.2861	26.00	-2.09	17726.985	2.0	26140.164	3.0
1188.3114	24.00	-.62	48824.500	4.0	57237.500	4.0
1188.3230	20.00	-1.51	37751.867	2.0	46164.785	3.0
1188.3429	20.00	-2.40	37751.867	2.0	46164.644	2.0
1188.3595	9.02	-2.22	444957.110	1.5	453369.770	1.5
1188.3715	20.00	-3.80	39340.080	2.0	47752.655	1.0
1188.4097	26.00	-2.49	17927.378	1.0	26339.682	2.0
1188.4173	18.01	-1.63	206255.230	2.5	214667.480	2.5
1188.4244	7.00	-2.97	106477.800	.5	114890.000	1.5
1188.4321	14.00	-2.36	54257.582	3.0	62669.727	2.0
1188.4330	22.00	-3.00	31373.801	3.0	39785.940	4.0
1188.4555	18.00	-.50	111818.090	1.0	120230.070	2.0
1188.5096	14.00	-1.03	54257.582	3.0	62669.179	4.0
1188.5117	14.00	-1.26	54257.582	3.0	62669.164	3.0
1188.5861	14.00	-4.02	54185.264	1.0	62596.320	2.0
1188.6138	9.00	-4.00	129381.860	2.5	137792.720	2.5
1188.6258	26.00	-4.29	45964.944	2.0	54375.719	2.0
1188.7013	14.00	-1.71	54257.582	3.0	62667.823	3.0
1188.7042	18.01	-3.68	200393.020	4.5	208803.240	5.5
1188.7827	9.00	-.71	117872.916	1.5	126282.580	1.5
1188.8232	7.00	-3.42	107445.622	1.5	115855.000	.5
1188.8232	7.00	-2.72	107445.622	1.5	115855.000	1.5
1188.8232	7.00	-2.76	107445.622	1.5	115855.000	2.5
1188.8767	24.00	-4.16	37205.880	3.0	45614.880	4.0
1189.0484	14.00	-2.13	40991.884	1.0	49399.670	1.0
1189.0747	17.00	-1.36	83130.900	1.5	91538.500	1.5
1189.0857	20.00	-.93	37757.449	3.0	46164.971	4.0
1189.1120	20.00	-2.00	37757.449	3.0	46164.785	3.0
1189.1297	9.00	-2.31	129381.860	2.5	137789.070	3.5
1189.1319	20.00	-3.54	37757.449	3.0	46164.644	2.0
1189.2000	8.05	-.76	666270.000	0.0	674679.014	0.0
1189.2019	7.01	-3.67	221343.000	4.0	229749.700	4.0
1189.2076	18.01	-1.46	186890.950	2.5	195297.610	1.5
1189.2132	28.01	-4.62	121925.160	.5	130331.780	1.5
1189.2746	22.00	-1.82	33700.874	4.0	42107.060	4.0
1189.2789	17.00	-4.98	88080.042	2.5	96486.198	1.5
1189.2869	22.00	-1.98	11531.760	2.0	19937.859	1.0
1189.2896	6.00	-.30	69710.660	2.0	78116.740	1.0
1189.3151	7.01	-4.18	221343.000	4.0	229748.900	3.0
1189.3236	9.00	-4.49	129381.860	2.5	137787.700	1.5
1189.3859	6.00	-3.09	81105.030	1.0	89510.430	2.0
1189.4181	14.00	-4.24	54313.818	1.0	62718.990	0.0
1189.4962	27.00	-1.12	28470.510	1.5	36875.130	1.5
1189.5755	6.00	0.00	69744.030	3.0	78148.090	2.0
1189.5897	26.00	-4.38	45833.240	4.0	54237.200	4.0
1189.5939	27.00	-4.28	42796.670	1.5	51200.600	1.5
1189.6137	23.00	-3.69	14949.300	4.5	23353.090	3.5
1189.6178	26.00	-4.84	45562.959	3.0	53966.720	2.0
1189.6250	28.01	-3.38	104503.220	2.5	112906.930	1.5
1189.6703	14.01	-.89	113760.410	3.5	122163.800	2.5
1189.6944	14.01	-2.19	113760.580	2.5	122163.800	2.5
1189.7029	14.01	-1.05	113760.580	2.5	122163.740	1.5
1189.7057	23.01	-2.84	44200.970	1.0	52604.110	1.0
1189.7472	17.00	-3.08	88080.042	2.5	96482.889	2.5
1189.7510	25.01	-4.42	72648.800	4.0	81051.620	3.0
1189.8091	26.01	-4.25	54870.620	2.5	63273.030	2.5
1189.8459	27.00	-2.53	44568.470	2.5	52970.620	2.5
1189.9336	7.00	-3.31	107588.469	.5	115990.000	.5
1189.9336	7.00	-2.80	107588.469	.5	115990.000	1.5
1190.0055	14.00	-2.61	48102.323	2.0	56503.346	2.0
1190.0584	18.00	-3.89	114805.180	2.0	123205.830	3.0
1190.1381	22.00	-3.41	28772.860	0.0	37172.947	1.0
1190.3290	18.00	-3.93	114821.990	3.0	123220.730	2.0
1190.3608	26.00	-4.96	45726.104	5.0	54124.620	4.0
1190.3707	14.00	-4.24	51612.012	0.0	60010.458	1.0
1190.4325	14.03	.30	313914.920	1.5	322312.930	.5
1190.5079	26.00	-4.97	49604.402	5.0	58001.880	6.0
1190.5945	22.00	-2.07	33655.853	2.0	42052.720	3.0
1190.6182	22.00	-4.44	39662.150	1.0	48058.850	1.0
1190.6638	7.00	-3.21	107445.622	1.5	115842.000	.5
1190.6638	7.00	-3.72	107445.622	1.5	115842.000	1.5
1190.7161	27.00	-4.76	46872.740	3.5	55268.750	3.5
1190.8210	24.00	-2.31	27816.880	5.0	36212.150	4.0
1190.9004	28.01	-3.41	120903.200	3.5	129297.910	3.5
1190.9104	26.00	-.95	49502.530	5.0	57897.170	5.0
1190.9671	18.01	.34	210609.360	3.5	219003.600	2.5
1190.9820	26.00	-4.76	43210.011	2.0	51604.146	3.0
1191.0011	10.03	-.45	633790.000	1.5	642184.000	1.5
1191.0622	14.03	-2.41	328257.120	4.5	336650.690	4.5
1191.0622	14.03	-.68	328257.120	5.5	336650.690	4.5
1191.0622	14.03	-.77	328257.120	4.5	336650.690	3.5
1191.1388	28.01	-3.20	113407.310	2.5	121800.340	1.5
1191.1424	26.00	-2.32	43434.585	3.0	51827.590	2.0
1191.1615	7.00	-2.09	96750.810	1.5	105143.680	2.5
1191.1814	23.00	-1.21	19078.150	3.5	27470.880	3.5
1191.2028	22.00	-2.80	37852.021	1.0	46244.600	2.0
1191.2096	22.00	-3.67	40466.979	2.0	48859.510	1.0
1191.2283	8.02	-1.58	370900.600	2.0	379293.000	2.0
1191.2453	28.01	-1.94	109269.830	1.5	117662.110	1.5
1191.3375	28.01	-2.85	113408.710	1.5	121800.340	1.5
1191.3474	18.01	-4.94	148842.370	2.5	157233.930	3.5
1191.3503	27.00	-4.29	45766.630	3.5	54158.170	4.5
1191.3943	14.00	-2.32	54205.090	2.0	62596.320	2.0
1191.3986	24.00	-3.39	40930.310	1.0	49321.510	2.0
1191.4284	18.01	-1.68	186470.280	1.5	194861.270	2.5
1191.4412	28.02	-4.93	121566.700	1.0	129957.600	1.0
1191.5165	25.00	-4.15	57485.970	2.5	65876.340	3.5
1191.6939	10.01	-2.01	294086.490	1.5	302475.610	.5
1191.7124	6.00	-3.71	80782.510	1.0	89171.500	0.0
1191.7471	28.00	-2.69	48715.200	4.0	57103.946	3.0
1191.8332	27.00	-3.83	42811.440	3.5	51199.580	3.5
1191.8531	9.02	-4.17	458594.860	2.5	466982.860	2.5
1191.9171	28.00	-3.18	50142.800	3.0	58530.350	3.0
1191.9256	6.00	-3.54	80782.510	1.0	89170.000	1.0
1191.9341	25.00	-4.81	57485.970	2.5	65873.400	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1191.9355	24.00	-3.71	42648.260	3.0	51035.680	2.0
1191.9654	25.00	-4.78	35041.370	3.5	43428.580	4.5
1192.0499	22.00	-3.83	17540.205	3.0	25926.820	4.0
1192.0648	9.02	-3.00	444957.110	1.5	453343.620	2.5
1192.0933	24.00	-4.94	33906.650	1.0	42292.960	1.0
1192.1951	28.00	-4.94	43654.974	3.0	52040.568	2.0
1192.2426	27.00	-4.56	45971.190	3.5	54356.450	4.5
1192.3463	7.00	-2.43	107588.469	.5	115973.000	1.5
1192.4445	18.00	-3.07	114821.990	3.0	123205.830	3.0
1192.5028	25.00	-2.31	51718.220	1.5	60101.650	2.5
1192.5968	22.00	-5.23	8492.421	1.0	16875.190	2.0
1192.6515	26.00	-3.34	37046.000	4.0	45428.385	4.0
1192.6736	6.00	-3.20	80782.510	1.0	89164.740	1.0
1192.6940	22.00	-3.19	27750.124	5.0	36132.210	4.0
1192.7841	28.00	-2.06	34408.574	1.0	42790.027	2.0
1192.8020	22.00	-3.19	28791.620	1.0	37172.947	1.0
1192.8059	28.01	-3.30	120903.200	3.5	129284.500	2.5
1192.8329	27.00	-4.69	45971.190	3.5	54352.300	3.5
1192.8463	22.00	-2.53	36000.144	4.0	44381.160	4.0
1192.8471	20.02	-1.87	362893.470	2.0	371274.480	2.0
1192.8486	27.00	-3.78	44394.470	3.5	52775.470	4.5
1192.9095	22.00	-5.40	8436.618	0.0	16817.190	1.0
1193.0351	6.00	-3.89	80782.510	1.0	89162.200	2.0
1193.1333	15.01	-1.17	130174.300	2.0	138553.300	2.0
1193.1732	56.01	-.71	61636.000	0.0	70017.013	0.0
1193.2045	15.00	-4.83	64239.500	.5	72618.000	.5
1193.2686	27.00	-3.51	45904.680	1.5	54282.730	2.5
1193.2999	27.00	-4.50	44394.470	3.5	52772.300	2.5
1193.3156	22.00	-4.96	37690.320	5.0	46068.040	4.0
1193.4706	8.00	-2.13	99680.968	1.0	108057.600	1.0
1193.4822	8.00	-1.91	99681.049	2.0	108057.600	1.0
1193.4837	27.00	-4.64	44480.140	2.5	52856.680	3.5
1193.5076	26.00	-4.30	29798.960	4.0	38175.332	3.0
1193.5192	8.00	-2.61	99681.309	0.0	108057.600	1.0
1193.5293	22.00	-6.56	14028.470	2.0	22404.690	3.0
1193.6262	25.01	-4.95	62564.700	1.0	70940.240	2.0
1193.6276	25.00	-4.44	34938.700	4.5	43314.230	5.5
1193.6590	28.00	-3.39	50142.800	3.0	58518.110	4.0
1193.6849	26.00	-4.33	36686.159	4.0	45061.287	3.0
1193.7302	28.00	-1.76	50851.220	1.0	59226.030	1.0
1193.7473	28.01	-2.67	122441.220	4.5	130815.910	3.5
1193.8818	22.00	-3.48	17423.853	2.0	25797.600	3.0
1193.8928	10.01	.34	281998.280	2.5	290371.950	2.5
1193.8985	18.01	-3.21	206623.800	3.5	214997.430	4.5
1193.9056	24.00	-4.09	46298.320	1.0	54671.900	1.0
1193.9098	18.01	-.36	210630.050	2.5	219003.600	2.5
1193.9170	23.00	-4.88	9824.580	2.5	18198.080	2.5
1193.9604	10.00	-4.14	163707.721	1.0	172080.916	1.0
1193.9883	18.01	-4.82	206623.800	3.5	214996.800	3.5
1194.0054	29.01	-1.23	136442.050	3.0	144814.930	3.0
1194.0224	22.00	-2.34	40466.979	2.0	48839.740	3.0
1194.0425	27.00	-2.21	40345.950	2.5	48718.570	2.5
1194.0468	22.00	-1.61	33680.130	3.0	42052.720	3.0
1194.0857	10.00	-4.52	163708.599	2.0	172080.916	1.0
1194.1295	24.00	-3.64	48661.590	3.0	57033.600	4.0
1194.1523	6.00	-4.82	78731.270	1.0	87103.120	1.0
1194.1666	18.01	-1.50	210630.050	2.5	219001.800	1.5
1194.2394	18.01	-2.02	202155.860	2.5	210527.100	2.5
1194.2821	18.01	-4.26	200880.520	3.5	209251.460	3.5
1194.3107	22.00	-3.17	38159.710	3.0	46530.450	4.0
1194.3149	24.00	-3.81	37244.170	4.0	45614.880	4.0
1194.3349	18.00	.02	111818.090	1.0	120188.660	2.0
1194.3805	18.00	-.23	111818.090	1.0	120188.340	1.0
1194.4633	15.00	-2.81	58174.450	1.5	66544.120	2.5
1194.5290	27.00	-3.07	44394.470	3.5	52763.680	3.5
1194.5533	7.00	-2.86	96750.810	1.5	105119.850	1.5
1194.5533	17.00	-3.37	94732.300	3.5	103101.340	2.5
1194.5741	7.00	-2.27	107253.106	2.5	115622.000	2.5
1194.5975	6.00	-3.21	80801.270	2.0	89170.000	1.0
1194.6106	28.00	-4.48	48735.308	2.0	57103.946	3.0
1194.6161	7.01	-3.92	221380.300	3.0	229748.900	3.0
1194.6260	26.01	-4.98	54904.500	3.5	63273.030	2.5
1194.6275	28.01	-4.99	120903.200	3.5	129271.720	3.5
1194.6960	25.01	-3.60	62572.200	2.0	70940.240	2.0
1194.6989	26.00	-4.89	50456.790	3.0	58824.810	2.0
1194.7802	22.00	-2.62	38670.710	4.0	47038.160	3.0
1194.7945	24.00	-4.97	38537.680	5.0	46905.030	4.0
1194.8574	14.03	-1.96	328249.640	3.5	336616.550	3.5
1194.8574	14.03	-.42	328249.640	4.5	336616.550	3.5
1194.8574	14.03	-.53	328249.640	3.5	336616.550	2.5
1194.8574	18.00	-3.07	114805.180	2.0	123172.090	1.0
1194.8674	6.00	-2.73	80782.510	1.0	89149.350	1.0
1194.8702	28.01	-3.23	68965.650	1.5	77332.470	2.5
1194.9548	22.00	-1.84	11639.804	3.0	20006.032	2.0
1194.9745	20.01	-0.00	52166.930	.5	60533.020	.5
1195.0887	28.01	-2.95	71457.740	3.5	79823.030	3.5
1195.1116	18.01	-3.40	206631.670	2.5	214996.800	3.5
1195.1453	7.00	-4.28	107253.106	2.5	115618.000	1.5
1195.1453	7.00	-2.13	107253.106	2.5	115618.000	2.5
1195.1673	28.01	-3.23	93390.060	2.5	101754.800	2.5
1195.2040	22.00	-4.38	37325.407	2.0	45689.890	3.0
1195.2216	28.01	-3.17	112686.300	2.5	121050.660	2.5
1195.2588	28.00	-4.33	49403.420	1.0	57767.520	1.0
1195.3196	10.00	-3.45	163707.721	1.0	172071.396	2.0
1195.3246	9.02	-2.95	445006.130	2.5	453369.770	1.5
1195.3489	6.00	-3.98	80801.270	2.0	89164.740	1.0
1195.3517	29.01	-3.04	125230.600	3.0	133594.050	3.0
1195.4450	10.00	-3.77	163708.599	2.0	172071.396	2.0
1195.4564	7.00	-1.68	107628.283	1.5	115991.000	2.5
1195.5246	24.00	-4.84	46846.770	3.0	55209.010	4.0
1195.5447	24.00	-1.80	48824.500	4.0	57186.600	3.0
1195.5956	20.00	-1.38	33317.264	0.0	41679.008	1.0
1195.5994	7.00	-3.65	107628.283	1.5	115990.000	.5
1195.5994	7.00	-2.84	107628.283	1.5	115990.000	1.5
1195.5994	7.00	-3.28	107628.283	1.5	115990.000	2.5
1195.6019	13.02	-.79	205975.740	.5	213737.440	1.5
1195.6862	27.00	-2.90	43199.650	2.5	51560.760	2.5
1195.7120	6.00	-2.99	80801.270	2.0	89162.200	2.0
1195.7291	29.01	-1.85	108014.660	3.0	116375.470	3.0
1195.7806	29.01	-4.36	128558.900	3.0	136919.350	3.0
1195.7906	28.01	-3.08	111783.790	3.5	120144.170	2.5
1195.8149	27.00	-3.09	44555.710	1.5	52915.920	.5
1195.8235	6.00	-3.35	80782.510	1.0	89142.660	2.0
1195.8249	24.00	-4.66	37205.880	3.0	45566.020	3.0
1195.8292	28.01	-3.22	122441.220	4.5	130801.330	4.5
1195.8684	14.00	-2.51	54185.264	1.0	62545.100	1.0
1195.9766	22.00	-5.37	8602.340	2.0	16961.420	3.0
1195.9880	22.00	-4.43	40556.070	1.0	48915.070	2.0
1196.0310	27.00	-4.84	42811.440	3.5	51170.140	4.5
1196.1283	24.00	-4.63	46846.770	3.0	55204.790	3.0
1196.2055	13.02	-1.31	208881.830	2.5	217239.310	2.5
1196.2055	13.02	-.01	208881.830	2.5	217239.310	3.5
1196.2055	13.02	-.16	208881.830	1.5	217239.310	2.5
1196.2299	24.00	-4.77	33935.650	2.0	42292.960	1.0
1196.2857	18.01	-2.95	200234.860	2.5	208591.780	1.5
1196.3616	10.01	-4.95	313718.990	3.5	322075.380	4.5
1196.3788	28.01	-3.24	112686.300	2.5	121042.570	1.5
1196.4000	8.05	-1.72	666270.000	0.0	674628.409	0.0
1196.4045	29.01	-2.89	114511.440	1.0	122867.530	1.0
1196.4046	14.02	-.56	206176.080	1.0	214532.170	1.0
1196.4132	7.00	-3.99	96787.650	1.5	105143.680	2.5
1196.4218	10.01	-4.87	313719.370	2.5	322075.340	3.5
1196.4704	18.01	-1.93	191169.520	1.5	199525.150	1.5
1196.5506	22.00	-3.18	40369.760	0.0	48724.830	1.0
1196.6367	14.00	-2.60	54871.031	1.0	63225.500	2.0
1196.6423	6.00	-2.87	80801.270	2.0	89155.700	3.0
1196.6466	25.00	-5.00	54218.710	1.5	62573.110	1.5
1196.6938	27.00	-3.44	45904.680	1.5	54258.750	2.5
1196.6953	25.00	-2.58	51787.920	.5	60141.980	.5
1196.7152	18.00	-3.99	116999.389	2.0	125353.310	1.0
1196.7282	22.00	-4.69	40670.600	2.0	49024.430	3.0
1196.7297	9.01	-2.40	269548.970	3.0	277902.790	2.0
1196.8285	27.00	-3.08	43911.360	1.5	52264.490	1.5
1196.8374	8.00	-1.89	99092.980	1.0	107446.048	2.0
1196.8385	22.01	-2.59	59467.810	3.5	67820.870	4.5
1196.8844	25.01	-4.44	62587.500	3.0	70940.240	2.0
1196.9100	2.00	.04	185565.000	0.0	193919.847	0.0
1196.9338	8.00	-1.67	99093.653	2.0	107446.048	2.0
1196.9600	7.00	-1.76	107182.788	1.5	115535.000	2.5
1197.0118	28.00	-2.87	42954.234	2.0	51306.065	3.0
1197.0125	22.00	-2.90	33700.874	4.0	42052.720	3.0
1197.0477	25.00	-4.18	51638.170	2.5	59989.770	1.5
1197.0526	26.00	-2.84	37157.546	2.0	45509.112	1.0
1197.1052	8.00	-1.52	99094.849	3.0	107446.048	2.0
1197.1682	18.01	-4.02	206623.800	3.5	214974.560	3.5
1197.1768	8.01	-4.96	250251.000	.5	258601.700	1.5
1197.1768	8.01	-4.29	250251.000	1.5	258601.700	1.5
1197.3067	26.00	-1.85	17550.180	3.0	25899.974	4.0
1197.3130	29.01	-3.65	128569.600	2.0	136919.350	3.0
1197.3244	13.02	-.54	205387.770	1.5	213737.440	2.5
1197.3244	13.02	-1.49	205387.770	1.5	213737.440	1.5
1197.3445	10.01	.10	313718.990	3.5	322068.520	4.5
1197.3517	23.00	-6.06	9824.580	2.5	18174.060	1.5
1197.3848	22.00	-1.68	11776.806	4.0	20126.055	3.0
1197.4469	22.00	-4.46	21469.494	3.0	29818.310	3.0
1197.5232	26.00	-4.27	42859.756	2.0	51208.040	1.0
1197.5497	15.01	-1.60	130174.300	2.0	138522.400	1.0
1197.5525	6.00	-2.48	80801.270	2.0	89149.350	1.0
1197.5556	26.00	-3.48	45220.662	3.0	53568.720	2.0
1197.5812	24.00	-3.37	46298.320	1.0	54646.200	0.0
1197.6371	18.01	-4.89	183985.940	1.5	192333.430	.5
1197.6770	7.00	-3.70	107182.788	1.5	115530.000	.5
1197.6770	7.00	-2.53	107182.788	1.5	115530.000	1.5
1197.7376	6.00	-2.66	81105.030	1.0	89451.820	1.0
1197.7990	26.00	-2.47	43763.938	1.0	52110.300	1.0
1197.8151	29.01	-3.87	125247.800	2.0	133594.050	3.0
1197.8380	6.00	-3.59	78731.270	1.0	87077.360	0.0
1197.8797	21.00	-2.81	33615.060	1.5	41960.860	2.5
1197.9414	28.01	-2.13	108548.610	1.5	116893.980	2.5
1197.9873	18.01	-1.51	210658.550	1.5	219003.600	2.5
1198.0031	18.01	-.97	210658.660	2.5	219003.600	2.5
1198.0351	7.00	-2.47	107628.283	1.5	115973.000	1.5
1198.0753	22.00	-3.67	28828.510	2.0	37172.947	1.0
1198.1533	7.00	-3.01	107253.106	2.5	115597.000	1.5
1198.1898	9.01	-.63	269548.970	3.0	277892.610	3.0
1198.2084	25.00	-4.28	57305.620	3.5	65649.130	2.5
1198.2458	18.01	-.55	210658.550	1.5	219001.800	1.5
1198.2616	18.01	.18	210658.660	2.5	219001.800	1.5
1198.3005	22.00	-2.25	31184.021	1.0	39526.890	2.0
1198.3061	18.01	-4.16	206631.670	2.5	214974.500	2.5
1198.3348	6.00	-3.41	80801.270	2.0	89143.900	3.0
1198.3391	27.00	-3.07	43921.890	2.5	52264.490	1.5
1198.3879	7.00	-2.14	104615.440	1.5	112957.700	1.5
1198.3879	7.00	-1.37	104615.440	1.5	112957.700	2.5
1198.4081	27.00	-2.76	46562.870	1.5	54904.990	2.5
1198.4198	14.00	.19	39760.285	1.0	48102.323	2.0
1198.4913	10.00	-.87	151038.452	1.0	159379.993	0.0
1198.5115	29.01	-.22	137614.300	0.0	145955.700	1.0
1198.5115	22.00	-3.15	29818.310	3.0	38159.710	3.0
1198.5130	6.00	-2.53	80801.270	2.0	89142.660	2.0
1198.5380	26.00	-3.75	36940.600	2.0	45281.816	2.0
1198.5385	7.00	-4.37	107182.788	1.5	115524.000	.5
1198.5385	7.00	-2.79	107182.788	1.5	115524.000	1.5
1198.5385	7.00	-2.06	107182.788	1.5	115524.000	2.5
1198.5920	18.01	-1.94	196076.390	1.5	204417.230	1.5
1198.6214	26.00	-4.30	45428.385	4.0	53769.020	4.0
1198.6409	24.00	-4.23	27300.190	1.0	35640.690	0.0
1198.6457	26.00	-4.60	45726.104	5.0	54066.570	4.0
1198.6768	22.00	-3.58	40384.580	1.0	48724.830	1.0
1198.7112	14.00	-1.87	54205.090	2.0	62545.100	1.0
1198.7127	25.00	-3.86	57621.900	1.5	65961.900	1.5
1198.7472	22.00	-2.86	40384.580	1.0	48724.340	2.0
1198.8018	10.01	-.32	294086.490	1.5	302425.870	1.5
1198.8162	23.00	-4.57	34065.610	2.5	42404.890	3.5
1198.8766	9.01	-.55	269563.930	2.0	277902.790	2.0
1198.8941	14.00	-1.77	54257.582	3.0	62596.320	2.0
1198.9039	26.00	-1.28	49558.500	4.0	57897.170	5.0
1198.9226	24.00	-3.26	40982.970	2.0	49321.510	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1198.9437	22.00	-2.71	38699.767	2.0	47038.160	3.0
1198.9471	7.01	-1.75	202765.260	2.0	211103.630	3.0
1198.9588	28.00	-1.66	43933.428	2.0	52271.716	2.0
1198.9758	16.01	-3.06	156121.330	2.5	164459.500	2.5
1198.9816	9.01	-2.74	278368.010	2.0	286706.140	1.0
1199.0299	26.00	-2.30	43499.485	4.0	51837.279	3.0
1199.0735	9.02	-1.93	445006.130	2.5	453343.620	2.5
1199.1568	14.00	-.16	39683.163	0.0	48020.074	1.0
1199.1874	22.00	-3.47	32857.721	3.0	41194.420	3.0
1199.2506	22.00	-2.96	31190.631	2.0	39526.890	2.0
1199.2879	28.01	-2.77	113225.060	.5	121561.060	.5
1199.3512	28.01	-4.69	122144.990	2.5	130480.550	3.5
1199.3843	27.00	-4.91	46032.100	4.5	54367.430	5.5
1199.4046	26.00	-3.00	39625.784	4.0	47960.973	4.0
1199.4062	28.00	-2.04	45418.858	2.0	53754.036	2.0
1199.4174	22.01	-4.81	62271.250	2.5	70606.350	2.5
1199.4645	28.00	-2.12	42790.027	2.0	51124.800	3.0
1199.5187	14.00	-2.32	54185.264	1.0	62519.660	2.0
1199.6247	24.00	-3.58	49027.580	2.0	57361.240	3.0
1199.6506	28.01	-4.41	97799.660	1.5	106133.140	1.5
1199.6693	18.01	-2.20	210607.550	5.5	218940.900	4.5
1199.6693	18.01	-.39	210607.550	5.5	218940.900	5.5
1199.6808	9.01	-1.97	278368.010	2.0	286701.280	2.0
1199.6895	18.01	-.47	210607.690	4.5	218940.900	4.5
1199.6895	18.01	-2.20	210607.690	4.5	218940.900	5.5
1199.7557	28.01	-4.92	121146.980	2.5	129479.730	1.5
1199.7571	26.02	-.58	190404.310	3.0	198737.050	4.0
1199.7658	9.01	.60	269548.970	3.0	277881.650	4.0
1199.7863	22.00	-2.49	33655.853	2.0	41988.390	3.0
1199.8032	25.00	-4.96	56490.790	2.5	64823.210	2.5
1199.8348	7.00	-.29	96787.650	1.5	105119.850	1.5
1199.9169	18.01	-3.83	210609.270	4.5	218940.900	4.5
1199.9169	18.01	-2.10	210609.270	4.5	218940.900	5.5
1199.9501	8.02	-2.61	370900.600	2.0	379232.000	1.0
1199.9789	7.00	-3.10	106477.800	.5	114809.000	.5
1199.9846	7.00	-3.72	104615.440	1.5	112946.600	.5
1199.9846	7.00	-2.48	104615.440	1.5	112946.600	1.5
1200.0207	28.01	-2.34	112719.750	3.5	121050.660	2.5
1200.0941	24.00	-2.01	46878.610	3.0	55209.010	4.0
1200.0970	24.00	-2.36	27703.840	4.0	36034.220	3.0
1200.1086	19.02	-4.37	242526.700	.5	250857.000	.5
1200.2742	9.01	.28	269573.640	1.0	277902.790	2.0
1200.2768	9.00	-1.85	117308.558	1.5	125637.690	2.5
1200.2784	26.00	-4.81	42532.729	3.0	50861.850	3.0
1200.3160	23.00	-4.35	31268.150	3.5	39597.010	4.5
1200.3420	9.01	.45	269563.930	2.0	277892.610	3.0
1200.3548	26.00	-4.44	42532.729	3.0	50861.320	2.0
1200.3564	16.01	-4.94	121529.490	2.5	129858.070	1.5
1200.4126	27.00	-1.56	48217.320	3.5	56545.510	2.5
1200.4991	6.00	-2.72	80834.610	3.0	89162.200	2.0
1200.5069	26.00	-4.87	43022.969	4.0	51350.505	4.0
1200.5322	18.01	-.58	196089.870	2.5	204417.230	1.5
1200.6196	26.00	-3.79	48531.896	3.0	56858.650	2.0
1200.6634	6.00	-3.35	81105.030	1.0	89431.480	2.0
1200.7024	24.00	-3.48	46878.610	3.0	55204.790	3.0
1200.7327	16.01	-2.46	156121.330	2.5	164447.300	2.5
1200.7601	20.01	-1.36	80521.530	1.5	88847.310	2.5
1200.8408	26.00	-4.48	45220.662	3.0	53545.882	3.0
1200.8769	25.00	-3.79	57621.900	1.5	65946.870	2.5
1200.9059	22.00	-5.54	8492.421	1.0	16817.190	1.0
1200.9211	7.00	-3.17	106778.337	1.5	115103.000	2.5
1200.9663	27.00	-5.00	46032.100	4.5	54356.450	4.5
1200.9829	26.00	-4.49	43137.472	3.0	51461.707	4.0
1201.0111	28.01	-2.63	122441.220	4.5	130765.260	3.5
1201.0572	26.00	-2.79	45913.480	3.0	54237.200	4.0
1201.0919	26.02	.16	190413.570	4.0	198737.050	4.0
1201.1510	24.00	-4.66	49027.580	2.0	57350.650	2.0
1201.1525	24.00	-4.92	36552.130	3.0	44875.190	2.0
1201.2477	24.00	-2.95	46349.500	2.0	54671.900	1.0
1201.3184	18.01	-1.35	202155.860	2.5	210477.770	3.5
1201.3396	7.00	-2.60	106778.337	1.5	115100.100	2.5
1201.3955	17.00	-2.76	88272.720	.5	96594.096	.5
1201.3964	38.01	.32	47736.530	0.0	56060.177	0.0
1201.4238	22.00	-4.91	27887.740	3.0	36208.920	4.0
1201.4282	20.01	-1.21	80526.160	2.5	88847.310	3.5
1201.4282	20.01	-2.51	80526.160	2.5	88847.310	2.5
1201.4368	6.00	-3.39	80834.610	3.0	89155.700	3.0
1201.7153	26.00	-4.78	45428.385	4.0	53747.547	3.0
1201.7670	20.00	-.63	36731.615	1.0	45050.419	2.0
1201.7835	9.01	.48	235150.580	2.0	243469.270	3.0
1201.8369	24.00	-3.88	27300.190	1.0	35618.510	1.0
1201.9106	27.00	-3.88	43242.950	2.5	51560.760	2.5
1201.9294	27.00	-4.56	46671.940	2.5	54989.620	3.5
1201.9615	20.00	-3.39	36731.615	1.0	45049.073	1.0
1201.9641	9.00	-2.15	129484.660	1.5	137802.100	2.5
1202.0080	22.00	-1.81	33700.874	4.0	42018.010	5.0
1202.0713	26.00	-4.28	42911.897	5.0	51228.595	5.0
1202.1028	25.00	-4.92	55107.520	3.5	63424.000	3.5
1202.1303	28.01	-3.17	122441.220	4.5	130757.510	4.5
1202.1534	28.01	-4.59	123434.600	4.5	131750.730	3.5
1202.1631	17.00	-1.01	83364.927	.5	91680.990	1.5
1202.2300	28.01	-4.31	127885.860	4.5	136201.460	3.5
1202.3789	14.00	-1.29	54205.090	2.0	62519.660	2.0
1202.4556	27.00	-2.03	43847.980	3.5	52162.020	3.5
1202.6654	27.00	-3.91	44658.030	1.5	52970.620	2.5
1202.6667	18.00	-.88	107054.319	0.0	115366.900	1.0
1202.6973	26.00	-2.56	43633.491	2.0	51945.860	1.0
1202.7059	18.01	.61	186815.960	3.5	195128.270	4.5
1202.7218	9.01	.34	235150.580	2.0	243462.780	2.0
1202.7549	26.00	-4.54	43022.969	4.0	51334.940	4.0
1202.7769	26.00	-2.29	43633.491	2.0	51945.310	2.0
1202.7782	9.01	-2.99	278397.120	1.0	286708.930	0.0
1202.7869	25.00	-4.31	57305.620	3.5	65617.370	3.5
1202.7912	24.00	-4.91	33906.650	1.0	42218.370	0.0
1202.7947	14.00	-2.36	49060.601	1.0	57372.297	2.0
1202.8173	27.00	-2.29	45971.190	3.5	54282.730	2.5
1202.8381	10.00	-3.98	163012.621	1.0	171324.017	1.0
1202.8477	26.02	.67	190425.720	5.0	198737.050	4.0
1202.9273	18.01	-2.19	210630.120	3.5	218940.900	4.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1202.9794	18.00	-5.00	114861.670	0.0	123172.090	1.0
1203.0677	28.01	-2.57	122441.220	4.5	130751.030	5.5
1203.0749	24.00	-3.73	46677.060	2.0	54986.820	3.0
1203.1430	6.00	-2.03	80834.610	3.0	89143.900	3.0
1203.1503	14.00	.44	39955.053	2.0	48264.292	3.0
1203.1821	9.01	-2.58	278397.120	1.0	286706.140	1.0
1203.2067	18.01	-4.93	202155.860	2.5	210464.710	2.5
1203.2444	6.00	-3.23	80782.510	1.0	89091.100	1.0
1203.2531	29.01	-3.54	108335.430	2.0	116643.960	3.0
1203.2603	27.00	-1.72	43847.980	3.5	52156.460	4.5
1203.2835	21.00	-2.91	33707.250	2.5	42015.570	3.5
1203.2835	9.01	.12	235150.580	2.0	243458.900	1.0
1203.2922	22.00	-1.94	33680.130	3.0	41988.390	3.0
1203.3211	9.00	-3.22	129484.660	1.5	137792.720	2.5
1203.3226	6.00	-3.94	80834.610	3.0	89142.660	2.0
1203.4008	23.00	-4.56	28768.130	4.5	37075.640	4.5
1203.4921	21.00	-4.00	33615.060	1.5	41921.940	1.5
1203.5941	26.00	-3.20	36975.640	3.0	45281.816	2.0
1203.6109	18.01	-1.84	151087.250	2.5	159393.310	1.5
1203.7370	18.01	-1.31	190507.360	1.5	198812.550	2.5
1203.7456	28.01	-4.37	122175.420	2.5	130480.550	3.5
1203.8167	23.01	-4.78	64603.530	3.0	72908.170	3.0
1203.8862	9.01	-3.89	278397.120	1.0	286701.280	2.0
1203.9124	24.00	-3.31	46905.030	4.0	55209.010	4.0
1203.9515	23.02	-3.45	153265.700	.5	161569.410	1.5
1203.9529	7.00	-1.21	104654.000	.5	112957.700	1.5
1203.9861	12.00	-2.33	46403.065	2.0	54706.536	1.0
1203.9906	22.00	-4.89	40556.070	1.0	48859.510	1.0
1204.0487	9.00	-2.51	129484.660	1.5	137787.700	1.5
1204.0501	28.00	-2.82	50689.490	2.0	58992.520	2.0
1204.0516	26.01	-4.52	85184.690	4.5	93487.710	3.5
1204.0690	6.00	-2.80	80782.510	1.0	89085.410	1.0
1204.0980	26.01	-4.13	72043.210	1.5	80345.910	.5
1204.1042	22.00	-1.55	33655.853	2.0	41958.510	2.0
1204.1575	6.00	-1.32	80834.610	3.0	89136.900	4.0
1204.2140	29.01	-1.48	137913.800	1.0	146215.700	1.0
1204.2445	23.00	-5.47	9824.580	2.5	18126.270	1.5
1204.2923	18.01	-1.48	190511.190	2.5	198812.550	2.5
1204.3953	24.00	-2.42	27597.220	3.0	35897.870	2.0
1204.4049	26.00	-2.15	40231.312	2.0	48531.896	3.0
1204.4126	7.00	-3.49	107588.469	.5	115889.000	.5
1204.4126	7.00	-2.20	107588.469	.5	115889.000	1.5
1204.4142	23.00	-4.02	14910.040	3.5	23210.560	2.5
1204.4535	10.00	-3.36	163012.621	1.0	171312.870	0.0
1204.4589	7.00	-2.20	107182.788	1.5	115483.000	.5
1204.4589	7.00	-3.51	107182.788	1.5	115483.000	1.5
1204.4606	15.00	-3.44	55939.300	.5	64239.500	.5
1204.4781	14.00	-1.67	54245.020	0.0	62545.100	1.0
1204.5521	6.00	-1.76	78199.070	2.0	86498.640	2.0
1204.5652	6.00	-2.69	78199.070	2.0	86498.550	1.0
1204.5973	26.00	-3.85	45509.112	1.0	53808.370	1.0
1204.6188	6.00	-2.30	80782.510	1.0	89081.620	0.0
1204.6304	22.00	-4.57	28791.620	1.0	37090.650	0.0
1204.6333	22.00	-8.91	14105.680	3.0	22404.690	3.0
1204.6683	7.00	-3.52	106758.731	.5	115057.500	1.5
1204.6754	24.00	-3.84	29584.620	2.0	37883.340	2.0
1204.6958	24.00	-2.68	46688.240	3.0	54986.820	3.0
1204.7029	7.00	-3.79	107588.469	.5	115887.000	.5
1204.7029	7.00	-2.53	107588.469	.5	115887.000	1.5
1204.7364	18.01	.70	210642.600	6.5	218940.900	5.5
1204.7422	18.01	.62	210642.640	5.5	218940.900	4.5
1204.7422	18.01	-1.19	210642.640	5.5	218940.900	5.5
1204.7785	23.00	-3.90	34065.610	2.5	42363.620	3.5
1204.8311	17.00	-3.78	88188.550	1.5	96486.198	1.5
1204.8409	24.00	-2.77	46677.060	2.0	54974.640	2.0
1204.8686	6.00	-2.57	80782.510	1.0	89079.900	2.0
1204.8944	7.00	-2.54	107182.788	1.5	115480.000	.5
1204.8944	7.00	-2.93	107182.788	1.5	115480.000	1.5
1204.8976	27.00	-4.08	43263.570	1.5	51560.760	2.5
1204.9223	25.00	-.59	48270.910	2.5	56567.930	1.5
1204.9994	22.00	-1.29	31489.451	4.0	39785.940	4.0
1205.0283	24.00	-3.51	46678.350	1.0	54974.640	2.0
1205.0878	25.00	-4.95	54218.710	1.5	62514.590	2.5
1205.0965	17.00	-3.61	91906.790	2.5	100202.610	1.5
1205.3118	17.00	-3.61	88188.550	1.5	96482.889	2.5
1205.3120	26.00	-2.30	36766.950	3.0	45061.287	3.0
1205.3668	25.00	-4.20	37789.930	2.5	46083.890	1.5
1205.4191	7.00	-2.79	104664.100	1.5	112957.700	1.5
1205.4191	7.00	-1.58	104664.100	1.5	112957.700	2.5
1205.4366	23.01	-3.67	44098.460	3.0	52391.940	3.0
1205.5078	25.00	-4.71	56356.210	3.5	64649.200	3.5
1205.5223	27.00	-4.96	46872.740	3.5	55165.630	2.5
1205.5645	7.00	-3.53	104654.000	.5	112946.600	.5
1205.5645	7.00	-4.47	104654.000	.5	112946.600	1.5
1205.5680	26.00	-3.25	45964.944	2.0	54257.520	2.0
1205.6081	15.01	-2.15	131632.000	3.0	139924.300	2.0
1205.6682	20.00	-1.52	40537.893	3.0	48829.780	2.0
1205.6682	20.00	-4.41	40537.893	3.0	48829.780	3.0
1205.7942	28.01	-4.77	129271.720	3.5	137562.740	3.5
1205.9470	9.01	-4.13	278416.170	0.0	286706.140	1.0
1205.9674	6.00	-4.18	80801.270	2.0	89091.100	1.0
1206.0008	15.01	.29	130020.400	3.0	138310.000	2.0
1206.0648	18.01	-4.58	182222.030	1.5	190511.190	2.5
1206.0683	26.00	-3.70	42859.756	2.0	51148.892	2.0
1206.0715	26.00	-4.13	42859.756	2.0	51148.870	3.0
1206.0837	28.01	-3.62	121699.020	1.5	129988.050	2.5
1206.1172	17.01	-4.85	146333.800	2.0	154622.600	3.0
1206.1216	27.00	-3.98	45876.580	2.5	54165.350	1.5
1206.1549	7.00	-2.18	106814.459	2.5	115103.000	2.5
1206.2030	27.00	-2.01	44568.470	2.5	52856.680	3.5
1206.2161	16.01	-1.09	156029.280	1.5	164317.400	1.5
1206.2976	27.00	-3.77	45971.190	3.5	54258.750	2.5
1206.3041	22.00	-3.67	33700.874	4.0	41988.390	3.0
1206.3064	18.01	-2.70	206623.800	3.5	214911.300	2.5
1206.3486	28.01	-2.56	112906.930	1.5	121194.140	2.5
1206.3760	14.00	-3.26	50499.838	2.0	58786.860	3.0
1206.3931	26.00	-4.72	45281.816	2.0	53568.720	2.0
1206.3951	18.00	-3.11	116999.389	2.0	125286.280	1.0
1206.4083	29.01	-.86	137614.300	0.0	145901.100	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1206.4486	18.00	-4.94	114975.070	1.0	123261.593	2.0
1206.4665	24.00	-4.50	46688.240	3.0	54974.640	2.0
1206.5734	10.00	-3.50	163038.351	2.0	171324.017	1.0
1206.5757	25.00	-.89	47903.800	4.5	56189.450	4.5
1206.5770	7.00	-2.80	106814.459	2.5	115100.100	2.5
1206.5772	26.00	-4.93	26406.490	1.0	34692.130	1.0
1206.5779	14.00	-3.82	53362.240	3.0	61647.875	2.0
1206.6334	10.00	-.67	150315.861	2.0	158601.115	2.0
1206.6413	13.01	-2.20	139286.800	2.0	147572.000	1.0
1206.6644	28.00	-.99	45418.858	2.0	53703.899	1.0
1206.7956	6.00	-2.09	80801.270	2.0	89085.410	1.0
1206.7956	7.00	-1.18	104683.030	2.5	112967.170	3.5
1206.8583	6.00	-2.11	78199.070	2.0	86482.780	2.0
1206.8758	6.00	-1.92	78199.070	2.0	86482.660	3.0
1206.8787	27.00	-4.18	46032.100	4.5	54315.670	5.5
1206.9428	6.00	-2.58	78215.510	3.0	86498.640	2.0
1207.0011	22.00	-4.98	36298.430	1.0	44581.160	2.0
1207.0343	14.00	-2.90	54313.818	1.0	62596.320	2.0
1207.0346	7.00	-3.94	104664.100	1.5	112946.600	.5
1207.0346	7.00	-1.95	104664.100	1.5	112946.600	1.5
1207.0477	22.01	-2.69	59321.790	2.5	67604.200	3.5
1207.0638	7.00	-1.37	104683.030	2.5	112965.330	3.5
1207.1230	7.00	-4.50	107253.106	2.5	115535.000	2.5
1207.1230	7.00	-1.58	107253.106	2.5	115535.000	3.5
1207.1935	23.02	-3.94	153288.000	1.5	161569.410	1.5
1207.2780	6.00	-2.05	80801.270	2.0	89082.100	3.0
1207.3116	18.01	-2.50	196305.040	3.5	204585.640	2.5
1207.3374	26.00	-4.70	42911.897	5.0	51192.320	4.0
1207.3699	24.00	-4.30	33113.270	4.0	41393.470	5.0
1207.3932	26.01	-4.86	85048.560	1.5	93328.600	1.5
1207.4107	18.00	-4.45	114975.070	1.0	123254.990	1.0
1207.4136	27.00	-3.49	46002.830	2.5	54282.730	2.5
1207.4268	27.00	-3.68	42988.120	3.5	51267.930	4.5
1207.4282	15.00	-1.78	69852.800	.5	78132.600	.5
1207.4311	23.02	-1.70	154480.500	4.5	162760.280	4.5
1207.4487	7.00	-.03	96864.020	2.5	105143.680	2.5
1207.4530	18.01	-4.46	206631.670	2.5	214911.300	2.5
1207.4705	23.00	-2.92	31317.500	4.5	39597.010	4.5
1207.5212	7.00	-2.75	106778.337	1.5	115057.500	1.5
1207.5980	17.00	-3.36	91906.790	2.5	100185.426	2.5
1207.5988	6.00	-2.75	80801.270	2.0	89079.900	2.0
1207.6280	17.00	-3.45	91906.790	2.5	100185.220	1.5
1207.6353	22.00	-2.73	33680.130	3.0	41958.510	2.0
1207.6558	28.01	-4.67	129284.500	2.5	137562.740	3.5
1207.6674	24.00	-3.21	41043.350	3.0	49321.510	2.0
1207.8522	7.00	-3.63	107253.106	2.5	115530.000	1.5
1207.8566	23.00	-4.84	34128.040	3.5	42404.890	3.5
1207.9685	22.00	-3.38	17423.853	2.0	25699.950	2.0
1208.0391	14.00	-2.23	50499.838	2.0	58775.451	2.0
1208.0498	28.01	-1.92	108548.610	1.5	116824.150	2.5
1208.0813	26.00	-3.68	42532.729	3.0	50808.053	4.0
1208.1330	17.00	-3.56	94827.150	2.5	103102.120	1.5
1208.1768	7.00	-3.53	104683.030	2.5	112957.700	1.5
1208.1768	7.00	-3.75	104683.030	2.5	112957.700	2.5
1208.1973	14.00	-.98	50499.838	2.0	58774.368	3.0
1208.2469	17.00	-4.68	94827.150	2.5	103101.340	2.5
1208.3009	14.03	.57	305641.100	.5	313914.920	1.5
1208.3159	7.00	-4.20	107628.283	1.5	115902.000	2.5
1208.3264	12.00	-.79	46403.065	2.0	54676.710	2.0
1208.3264	12.00	.45	46403.065	2.0	54676.710	3.0
1208.3662	12.00	-2.36	46403.065	2.0	54676.438	3.0
1208.3871	27.00	-2.00	43847.980	3.5	52121.210	4.5
1208.4426	22.00	-5.76	8602.340	2.0	16875.190	2.0
1208.4572	24.00	-3.99	27300.190	1.0	35572.940	2.0
1208.5302	28.01	-3.67	110021.920	4.5	118294.170	3.5
1208.5565	28.01	-1.64	121925.160	.5	130197.230	1.5
1208.6179	6.00	-2.41	80782.510	1.0	89054.160	2.0
1208.6325	25.00	-2.80	51718.220	1.5	59989.770	1.5
1208.6994	26.00	-2.66	43499.485	4.0	51770.577	3.0
1208.7283	7.00	-4.78	107253.106	2.5	115524.000	1.5
1208.7283	7.00	-3.92	107253.106	2.5	115524.000	2.5
1208.7283	7.00	-2.56	107253.106	2.5	115524.000	3.5
1208.7947	6.00	-.78	78199.070	2.0	86469.510	3.0
1208.8006	23.00	-4.81	15664.750	1.5	23935.150	2.5
1208.8400	18.01	-1.34	196315.510	2.5	204585.640	2.5
1208.8416	22.00	-2.46	37690.320	5.0	45960.439	6.0
1208.9556	18.01	.48	195864.640	2.5	204133.980	2.5
1209.1178	28.01	-3.38	129294.510	2.5	137562.740	3.5
1209.1513	26.00	-4.33	45562.959	3.0	53830.960	3.0
1209.1602	27.00	-2.75	45105.590	3.5	53373.530	3.5
1209.1778	22.00	-1.61	37976.780	2.0	46244.600	2.0
1209.1983	28.01	-4.76	122847.600	3.5	131115.280	4.5
1209.2582	6.00	-2.78	78215.510	3.0	86482.780	2.0
1209.2656	18.01	-.63	195866.760	1.5	204133.980	2.5
1209.2715	22.00	-1.30	31373.801	3.0	39640.980	3.0
1209.2758	6.00	-1.14	78215.510	3.0	86482.660	3.0
1209.3050	25.00	-.65	48300.980	1.5	56567.930	1.5
1209.3211	28.00	-1.99	50851.220	1.0	59118.060	2.0
1209.3664	7.00	-2.90	107588.469	.5	115855.000	.5
1209.3664	7.00	-3.81	107588.469	.5	115855.000	1.5
1209.3928	29.01	-2.50	128778.100	4.0	137044.450	4.0
1209.4000	4.01	.22	88231.000	0.0	96499.563	0.0
1209.4030	24.00	-2.50	46720.540	4.0	54986.820	3.0
1209.4221	22.00	-3.77	17369.590	1.0	25635.740	1.0
1209.5562	17.00	-3.91	74865.667	.5	83130.900	1.5
1209.5704	14.00	-1.93	54185.264	1.0	62450.400	1.0
1209.5816	7.00	-.84	104615.440	1.5	112880.500	2.5
1209.6152	28.01	-4.74	129297.910	3.5	137562.740	3.5
1209.6196	25.00	-.36	48225.990	3.5	56490.790	2.5
1209.6240	26.00	-2.52	49737.110	5.0	58001.880	6.0
1209.7271	26.00	-4.58	45281.816	2.0	53545.882	3.0
1209.7288	28.00	-2.05	43933.428	2.0	52197.482	3.0
1209.7733	24.00	-3.07	48824.500	4.0	57088.250	5.0
1209.7996	7.00	-2.40	104683.030	2.5	112946.600	1.5
1209.8509	17.00	-2.48	91906.790	2.5	100170.010	2.5
1209.8758	17.00	-3.53	91906.790	2.5	100169.840	3.5
1209.8875	20.02	.43	365363.880	1.0	373626.850	2.0
1210.0182	14.00	-1.27	54257.582	3.0	62519.660	2.0
1210.0325	21.00	-4.83	25584.640	2.5	33846.620	3.5
1210.0350	14.00	-2.11	49188.617	2.0	57450.580	3.0
1210.1072	27.00	-4.69	46685.430	1.5	54946.900	2.5
1210.1526	28.01	-2.99	111783.790	3.5	120044.950	4.5
1210.1957	26.00	-1.81	42815.814	5.0	51076.680	4.0
1210.2175	7.00	-3.83	107628.283	1.5	115889.000	.5
1210.2433	14.00	-3.32	53387.334	1.0	61647.875	2.0
1210.2742	18.01	-4.58	191974.530	1.5	200234.860	2.5
1210.3187	14.00	-2.86	53387.334	1.0	61647.360	1.0
1210.3535	14.00	-.39	39760.285	1.0	48020.074	1.0
1210.3859	10.00	-4.12	159379.993	0.0	167639.561	1.0
1210.4065	17.00	-2.11	91906.790	2.5	100166.217	3.5
1210.4486	28.00	-2.18	49327.560	3.0	57586.700	2.0
1210.5105	7.00	-4.12	107628.283	1.5	115887.000	.5
1210.5105	7.00	-3.00	107628.283	1.5	115887.000	1.5
1210.5105	7.00	-2.61	107628.283	1.5	115887.000	2.5
1210.5414	28.00	-2.45	48715.200	4.0	56973.707	5.0
1210.5762	7.00	-3.74	106758.731	.5	115017.000	.5
1210.5762	7.00	-1.95	106758.731	.5	115017.000	1.5
1210.5841	20.00	-.91	36731.615	1.0	44989.830	2.0
1210.5893	27.00	-2.13	44201.920	2.5	52460.100	2.5
1210.6230	26.02	-.15	190397.710	2.0	198655.660	3.0
1210.6318	27.00	-3.68	44658.030	1.5	52915.920	.5
1210.6375	22.00	-4.54	40466.979	2.0	48724.830	1.0
1210.6582	7.00	-.95	96750.810	1.5	105008.520	2.5
1210.7044	26.00	-1.86	43434.585	3.0	51691.980	3.0
1210.7044	22.00	-2.97	17540.205	3.0	25797.600	3.0
1210.7094	22.00	-3.01	40466.979	2.0	48724.340	2.0
1210.7330	15.01	-.90	129570.400	1.0	137827.600	1.0
1210.7814	29.01	-4.19	128778.100	4.0	137034.970	3.0
1210.7931	24.01	-3.83	59130.510	1.5	67387.300	2.5
1210.7931	20.02	-3.22	350900.040	2.0	359156.830	1.0
1210.9207	27.00	-3.98	46002.830	2.5	54256.750	2.5
1210.9339	7.00	-1.15	96864.020	2.5	105119.850	1.5
1210.9867	26.00	-4.13	49558.500	4.0	57813.970	3.0
1211.0101	18.01	-2.67	150474.900	1.5	158730.210	2.5
1211.0542	23.00	-4.72	15264.830	5.5	23519.840	4.5
1211.0659	14.00	-.66	53362.240	3.0	61617.170	4.0
1211.0732	28.01	-2.55	112906.930	1.5	121161.810	1.5
1211.1118	17.00	-.68	82918.893	2.5	91173.510	1.5
1211.1500	9.00	-2.39	117622.923	2.5	125877.280	1.5
1211.1510	28.01	-3.80	106620.530	3.5	114874.880	2.5
1211.1584	15.00	-4.29	64239.500	.5	72493.800	1.5
1211.1663	22.00	-3.24	36000.144	4.0	44254.390	3.0
1211.1804	6.00	-.08	78215.510	3.0	86469.660	4.0
1211.2024	6.00	-2.29	78215.510	3.0	86469.510	3.0
1211.2308	18.00	-.43	105462.804	3.0	113716.610	3.0
1211.2596	21.00	-3.72	33707.250	2.5	41960.860	2.5
1211.2711	7.00	-3.30	107588.469	.5	115842.000	.5
1211.2711	7.00	-3.41	107588.469	.5	115842.000	1.5
1211.3051	26.00	-3.56	50456.790	3.0	58710.090	3.0
1211.3183	20.02	-3.28	363021.270	2.0	371274.480	2.0
1211.3653	6.00	-3.45	80801.270	2.0	89054.160	2.0
1211.4846	26.00	-4.24	43079.013	1.0	51331.090	2.0
1211.5018	28.01	-2.85	123434.600	4.5	131686.560	4.5
1211.5693	25.00	-4.39	57621.900	1.5	65873.400	2.5
1211.5752	28.01	-1.57	129284.500	2.5	137535.960	3.5
1211.5825	26.00	-2.79	48531.896	3.0	56783.306	3.0
1211.5913	26.02	.27	190404.310	3.0	198655.660	3.0
1211.6927	27.00	-2.29	40827.770	1.5	49078.430	1.5
1211.7467	18.00	-3.49	113020.390	3.0	121270.682	2.0
1211.7529	7.00	-2.38	104716.920	3.5	112967.170	3.5
1211.7690	7.00	-1.07	104716.920	3.5	112967.060	4.5
1211.7867	16.01	-.94	156029.280	1.5	164279.300	.5
1211.7933	28.00	-2.22	46522.965	2.0	54772.940	3.0
1211.8175	25.00	-1.38	48318.120	.5	56567.930	1.5
1211.8763	24.01	-4.22	59130.510	1.5	67379.920	1.5
1211.9263	18.01	-.61	195864.640	2.5	204113.710	1.5
1211.9556	28.01	-3.57	121925.160	.5	130174.030	1.5
1211.9615	26.00	-2.02	37046.000	4.0	45294.830	5.0
1211.9835	22.00	-4.84	39214.380	3.0	47463.060	4.0
1212.0056	27.00	-3.49	45688.150	2.5	53936.680	2.5
1212.0100	27.00	-4.30	45540.280	5.5	53788.780	4.5
1212.0232	7.00	-1.60	104716.920	3.5	112965.330	3.5
1212.1272	26.00	-4.03	45913.480	3.0	54161.182	3.0
1212.1584	6.00	-3.38	80834.610	3.0	89082.100	3.0
1212.2275	27.00	-1.96	43847.980	3.5	52095.000	3.5
1212.2319	28.01	-4.15	122084.790	1.5	130331.780	1.5
1212.2378	18.01	.28	195866.760	1.5	204113.710	1.5
1212.2682	28.00	-4.77	42585.296	4.0	50832.039	3.0
1212.3260	23.00	-4.05	15688.800	2.5	23935.150	2.5
1212.4274	18.00	-4.24	114975.070	1.0	123220.730	2.0
1212.4612	7.00	-.99	96750.810	1.5	104996.240	1.5
1212.4789	14.00	-1.73	54205.090	2.0	62450.400	1.0
1212.5212	26.00	-3.90	36975.640	3.0	45220.662	3.0
1212.6024	22.00	-4.51	27887.740	3.0	36132.210	4.0
1212.6024	22.00	-4.20	40670.600	2.0	48915.070	2.0
1212.6936	28.01	-4.87	121050.660	2.5	129294.510	2.5
1212.8126	7.00	-3.24	106814.459	2.5	115057.500	1.5
1212.8504	26.00	-4.01	47136.058	2.0	55378.842	2.0
1212.9320	28.01	-1.26	129284.500	2.5	137526.730	2.5
1212.9526	26.02	.37	190413.570	4.0	198655.660	3.0
1212.9968	7.00	-.54	95493.660	1.5	103735.450	2.5
1213.1454	7.00	-3.24	104716.920	3.5	112957.700	2.5
1213.2057	18.01	-3.09	184093.060	.5	192333.430	.5
1213.2264	27.00	-2.92	46186.410	1.5	54426.640	1.5
1213.2411	27.00	-3.77	43921.890	2.5	52162.020	3.5
1213.2515	26.00	-4.12	47136.058	2.0	55376.117	1.0
1213.2529	28.01	-2.98	112906.930	1.5	121146.980	2.5
1213.3996	14.00	-2.59	48264.292	3.0	56503.346	2.0
1213.4060	28.01	-.80	129284.500	2.5	137523.510	3.5
1213.4222	15.00	-.89	69894.600	1.5	78133.500	2.5
1213.4571	7.00	-3.14	106778.337	1.5	115017.000	.5
1213.4571	7.00	-2.54	106778.337	1.5	115017.000	1.5
1213.4842	7.00	-2.26	103667.130	1.5	111905.609	2.5
1213.5474	28.01	-1.74	129297.910	3.5	137535.960	3.5
1213.5548	15.00	-1.71	69894.600	1.5	78132.600	.5
1213.5798	25.00	-2.79	55186.170	2.5	63424.000	3.5
1213.6888	24.00	-3.74	46967.700	2.0	55204.790	3.0
1213.7139	22.00	-2.09	33680.130	3.0	41917.050	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1213.7640	7.00	-.75	104716.920	3.5	112953.500	4.5
1213.7671	10.00	-4.89	161607.261	2.0	169843.820	2.0
1213.7787	26.00	-4.05	46888.494	2.0	55124.974	3.0
1213.8008	24.00	-4.98	27382.180	2.0	35618.510	1.0
1213.8052	15.00	-3.43	72386.100	2.5	80622.400	2.5
1213.8634	14.00	-3.30	53362.240	3.0	61598.145	2.0
1213.9114	23.00	-3.61	34128.040	3.5	42363.620	3.5
1213.9143	28.01	-3.54	92373.450	2.5	100609.010	2.5
1213.9320	22.00	-3.65	17369.590	1.0	25605.030	0.0
1213.9702	22.00	-4.05	38959.499	4.0	47194.680	4.0
1213.9727	14.00	-2.61	53362.240	3.0	61597.404	3.0
1213.9755	18.00	-.87	107131.755	1.0	115366.900	1.0
1214.0367	28.01	-.38	129284.500	2.5	137519.230	2.5
1214.0905	7.00	-2.44	106868.635	3.5	115103.000	2.5
1214.0957	29.01	-3.43	114511.440	1.0	122745.770	2.0
1214.2136	7.00	-1.57	96750.810	1.5	104984.340	.5
1214.2431	26.00	-3.28	45833.240	4.0	54066.570	4.0
1214.2493	17.00	-1.93	88080.042	2.5	96313.330	1.5
1214.2520	28.01	-.29	129297.910	3.5	137531.180	4.5
1214.2844	27.00	-3.27	46671.940	2.5	54904.990	2.5
1214.3331	6.00	-2.63	78249.940	4.0	86482.660	3.0
1214.3434	14.03	.82	305682.270	1.5	313914.920	2.5
1214.3434	14.03	-.14	305682.270	1.5	313914.920	1.5
1214.3641	23.01	-3.51	44159.430	2.0	52391.940	3.0
1214.5278	9.02	-3.64	457959.070	3.5	466190.470	4.5
1214.5452	14.00	-1.55	54313.818	1.0	62545.100	1.0
1214.5485	28.01	-2.85	113225.060	.5	121456.320	1.5
1214.6459	11.02	-3.43	435031.000	.5	443261.600	.5
1214.6487	7.00	-2.19	103622.480	.5	111853.061	1.5
1214.7501	7.00	-2.56	107253.106	2.5	115483.000	1.5
1214.7619	22.00	-4.67	21588.496	4.0	29818.310	3.0
1214.7951	22.00	-4.28	32857.721	3.0	41087.310	3.0
1214.8424	7.00	-2.64	106758.731	.5	114988.000	.5
1214.8424	7.00	-3.25	106758.731	.5	114988.000	1.5
1214.8481	25.00	-3.63	56356.210	3.5	64585.440	4.5
1214.9086	28.01	-1.81	129297.910	3.5	137526.730	2.5
1214.9234	28.01	-4.88	128732.030	1.5	136960.750	2.5
1214.9514	18.00	-1.10	113426.050	2.0	121654.580	2.0
1214.9795	27.00	-1.51	48317.170	3.5	56545.510	2.5
1214.9898	18.00	.15	113426.050	2.0	121654.320	3.0
1215.1257	18.00	-2.41	113426.050	2.0	121653.400	3.0
1215.1931	7.00	-1.98	107253.106	2.5	115480.000	1.5
1215.2192	7.00	-3.22	107628.283	1.5	115855.000	.5
1215.2192	7.00	-3.12	107628.283	1.5	115855.000	1.5
1215.2350	23.02	-3.33	152939.200	2.5	161165.810	2.5
1215.2719	28.01	-1.84	93528.440	3.5	101754.800	2.5
1215.3749	7.00	-2.87	106778.337	1.5	115004.000	2.5
1215.3842	28.01	-.15	129297.910	3.5	137523.510	3.5
1215.4315	14.02	-4.17	242411.270	3.0	250636.550	2.0
1215.4359	17.00	-2.07	90193.640	4.5	98418.890	3.5
1215.4891	6.00	-4.06	78731.270	1.0	86956.160	1.0
1215.5014	20.00	-1.57	40537.893	3.0	48762.700	2.0
1215.5014	20.00	-4.47	40537.893	3.0	48762.700	3.0
1215.5275	27.00	-4.98	46671.940	2.5	54896.570	3.5
1215.6243	10.00	-4.89	161524.174	1.0	169748.150	1.0
1215.7478	24.00	-2.52	46985.870	5.0	55209.010	4.0
1215.8099	16.01	-2.51	156029.280	1.5	164252.000	1.5
1215.8114	28.01	-4.46	121925.160	.5	130147.870	.5
1215.8232	23.01	-4.64	64804.130	2.0	73026.760	2.0
1215.8410	10.00	-4.62	161592.120	3.0	169814.630	2.0
1215.8942	25.00	-4.15	56490.790	2.5	64712.940	2.5
1215.9134	27.00	-2.67	43847.980	3.5	52070.000	2.5
1216.0169	28.01	-.40	129297.910	3.5	137519.230	2.5
1216.0258	10.01	.20	294086.490	1.5	302307.750	2.5
1216.0554	28.01	-4.53	121050.660	2.5	129271.720	3.5
1216.0835	7.00	-1.79	96787.650	1.5	105008.520	2.5
1216.1456	29.01	-3.22	128853.300	2.0	137073.750	2.0
1216.2300	25.00	-.60	48270.910	2.5	56490.790	2.5
1216.2356	22.00	-2.76	17423.853	2.0	25643.695	3.0
1216.2537	6.00	-2.10	78249.940	4.0	86469.660	4.0
1216.2759	6.00	-3.33	78249.940	4.0	86469.510	3.0
1216.2773	27.00	-2.35	46685.430	1.5	54904.990	2.5
1216.2788	6.00	-4.83	80834.610	3.0	89054.160	2.0
1216.3498	28.01	-2.89	111783.790	3.5	120002.860	3.5
1216.3543	28.01	-3.45	122812.970	3.5	131032.010	2.5
1216.3750	29.01	-.24	140984.200	1.0	149203.100	0.0
1216.3750	28.01	-3.47	107737.810	1.5	115956.710	2.5
1216.3839	28.01	-3.81	122112.940	.5	130331.780	1.5
1216.4534	18.01	-.73	182951.150	.5	191169.520	1.5
1216.4789	26.00	-1.57	43163.282	4.0	51381.480	4.0
1216.5067	28.01	-2.53	114052.040	3.5	122270.050	3.5
1216.6710	28.01	-3.04	112686.300	2.5	120903.200	3.5
1216.7170	27.00	-1.35	44555.710	1.5	52772.300	2.5
1216.7258	28.01	-3.30	104503.220	2.5	112719.750	3.5
1216.7450	7.00	-2.53	104664.100	1.5	112880.500	2.5
1216.7747	15.00	-1.42	69852.800	.5	78069.000	1.5
1216.7783	22.00	-2.62	33700.874	4.0	41917.050	4.0
1216.7895	28.01	-4.47	106620.530	3.5	114836.630	3.5
1216.8018	22.00	-2.34	33655.853	2.0	41871.870	2.0
1216.8043	13.01	-1.26	139916.700	1.0	148132.700	2.0
1216.8132	14.00	-2.55	54205.090	2.0	62421.030	3.0
1216.8627	22.00	-4.68	37852.434	4.0	46068.040	4.0
1216.8902	6.00	-.54	78199.070	2.0	86414.490	3.0
1216.9287	18.01	-1.85	186815.960	3.5	195031.120	2.5
1216.9747	22.00	-6.75	8602.340	2.0	16817.190	1.0
1216.9984	21.00	-4.79	33707.250	2.5	41921.940	1.5
1217.0070	22.00	-4.78	37617.868	4.0	45832.500	5.0
1217.0221	6.00	-3.18	81311.010	0.0	89525.540	1.0
1217.0399	22.00	-2.99	37690.320	5.0	45904.730	6.0
1217.1425	7.00	-3.61	107628.283	1.5	115842.000	.5
1217.1425	7.00	-2.72	107628.283	1.5	115842.000	1.5
1217.1779	17.00	-3.88	88272.720	.5	96486.198	1.5
1217.1895	13.01	-.88	139286.800	2.0	147500.200	3.0
1217.1914	28.00	-2.66	42621.048	3.0	50834.435	2.0
1217.2008	26.00	-4.29	45595.046	0.0	53808.370	1.0
1217.2340	26.02	.10	190393.270	1.0	198606.370	2.0
1217.2399	26.01	-4.35	71964.810	2.5	80177.870	1.5
1217.2517	6.00	-3.90	78199.070	2.0	86412.050	2.0
1217.2621	6.00	-1.35	78199.070	2.0	86411.980	3.0
1217.3081	17.00	-.30	83130.900	1.5	91343.500	2.5
1217.3229	29.01	-4.55	138003.200	2.0	146215.700	1.0
1217.4138	22.00	-3.80	17423.853	2.0	25635.740	1.0
1217.4770	7.00	-1.24	104615.440	1.5	112826.900	2.5
1217.4771	27.00	-3.76	42988.120	3.5	51199.580	3.5
1217.4948	9.00	-.22	138695.560	1.5	146906.900	1.5
1217.5245	27.00	-1.34	48334.370	1.5	56545.510	2.5
1217.5466	28.00	-2.72	42621.048	3.0	50832.039	3.0
1217.5557	23.00	-4.83	15724.220	3.5	23935.150	2.5
1217.5733	14.00	-2.82	53387.334	1.0	61598.145	2.0
1217.6194	28.01	-4.59	122270.050	3.5	130480.550	3.5
1217.6877	9.00	-1.09	138695.560	1.5	146905.600	2.5
1217.7436	7.00	-2.84	106778.337	1.5	114988.000	.5
1217.7436	7.00	-2.12	106778.337	1.5	114988.000	1.5
1217.7436	7.00	-1.95	106778.337	1.5	114988.000	2.5
1217.7737	28.00	-2.09	46522.965	2.0	54732.425	2.0
1217.8340	14.00	-1.69	50566.397	1.0	58775.451	2.0
1217.8716	15.00	-4.28	69924.700	2.5	78133.500	2.5
1217.8924	26.02	.14	190397.710	2.0	198606.370	2.0
1217.9027	7.00	-2.65	96787.650	1.5	104996.240	1.5
1217.9700	17.00	-.99	82918.893	2.5	91127.030	2.5
1217.9754	13.01	-.83	139242.900	3.0	147451.000	4.0
1217.9754	13.01	-.65	139242.900	3.0	147451.000	4.0
1217.9754	13.01	-4.86	139242.900	3.0	147451.000	3.0
1217.9903	15.00	-1.65	72386.100	2.5	80594.100	1.5
1218.0051	13.01	-2.01	125706.200	1.0	133914.100	2.0
1218.0140	10.01	-.60	282375.330	1.5	290583.170	1.5
1218.1113	18.00	-3.51	116942.815	3.0	125150.000	3.0
1218.1619	10.00	-4.20	161590.346	4.0	169797.190	3.0
1218.1832	29.01	-4.52	130386.400	2.0	138593.100	1.0
1218.2159	29.01	-2.42	128558.900	3.0	136765.380	4.0
1218.3106	14.00	-1.42	54313.818	1.0	62519.660	2.0
1218.3427	26.00	-4.09	43022.969	4.0	51228.595	5.0
1218.3792	14.00	-2.33	54245.020	0.0	62450.400	1.0
1218.3837	17.00	-3.73	90487.870	3.5	98693.220	2.5
1218.4134	6.00	-1.66	78293.490	1.0	86498.640	2.0
1218.4144	17.00	-3.43	90487.870	3.5	98693.013	3.5
1218.4267	6.00	-1.03	78293.490	1.0	86498.550	1.0
1218.4356	18.01	-1.43	147503.020	1.5	155708.020	.5
1218.6094	27.00	-3.56	44568.470	2.5	52772.300	2.5
1218.6272	25.00	-3.83	37737.220	3.5	45940.930	2.5
1218.6762	9.00	-1.15	138703.520	2.5	146906.900	1.5
1218.6764	26.00	-2.97	43633.491	2.0	51836.870	1.0
1218.6837	7.00	-.16	95532.120	2.5	103735.450	2.5
1218.7912	22.00	-3.92	33700.874	4.0	41903.480	5.0
1218.8009	7.00	-4.13	106814.459	2.5	115017.000	1.5
1218.8605	37.00	-2.12	23715.081	0.0	31919.465	0.0
1218.8694	9.00	-.01	138703.520	2.5	146905.600	2.5
1218.8724	26.02	-.08	190404.310	3.0	198606.370	2.0
1218.8928	18.00	-4.42	117151.387	1.0	125353.310	1.0
1218.9036	25.00	-3.22	51787.920	.5	59989.770	1.5
1218.9241	14.00	-1.49	53362.240	3.0	61563.952	4.0
1218.9360	26.00	-4.57	47177.210	1.0	55378.842	2.0
1218.9408	15.01	-.89	129626.000	1.0	137827.600	1.0
1218.9541	6.00	-1.67	81769.790	2.0	89971.300	3.0
1218.9660	7.00	-2.90	104765.740	4.5	112967.170	3.5
1218.9704	14.01	-.43	113962.340	.5	122163.740	1.5
1218.9823	7.00	-1.83	104765.740	4.5	112967.060	4.5
1219.0159	26.00	-2.82	29320.050	1.0	37521.144	2.0
1219.0439	26.00	-1.51	42815.814	5.0	51016.720	5.0
1219.0790	18.01	-3.83	173393.380	2.5	181594.050	2.5
1219.1433	14.00	-1.97	53362.240	3.0	61562.477	3.0
1219.2113	6.00	-4.69	81325.760	1.0	89525.540	1.0
1219.2396	7.00	-2.13	104765.740	4.5	112965.330	3.5
1219.2719	17.00	-4.99	83364.927	.5	91564.300	.5
1219.3006	6.00	-1.71	78215.510	3.0	86414.690	4.0
1219.3302	6.00	-1.72	78215.510	3.0	86414.490	3.0
1219.3329	22.00	-4.52	38451.298	2.0	46650.260	3.0
1219.3411	26.00	-4.30	47177.210	1.0	55376.117	1.0
1219.4495	26.00	-3.74	43163.282	4.0	51361.460	3.0
1219.5549	7.00	-1.63	104683.030	2.5	112880.500	2.5
1219.5552	26.00	-4.68	43137.472	3.0	51334.940	4.0
1219.6099	29.01	-4.27	130945.000	1.0	139142.100	2.0
1219.6099	29.01	-4.32	130945.000	2.0	139142.100	2.0
1219.6233	6.00	-4.20	81769.790	2.0	89966.800	3.0
1219.6646	14.00	-2.86	40991.884	1.0	49188.617	2.0
1219.6710	7.00	-3.23	96787.650	1.5	104984.340	.5
1219.6784	6.00	-2.87	81325.760	1.0	89522.400	2.0
1219.6932	6.00	-3.22	78215.510	3.0	86412.050	2.0
1219.7036	6.00	-2.44	78215.510	3.0	86411.980	3.0
1219.7382	26.00	-3.62	45964.944	2.0	54161.182	3.0
1219.7631	16.01	-1.72	156121.330	2.5	164317.400	1.5
1219.7768	10.00	-3.65	164285.882	0.0	172481.860	1.0
1219.8033	18.01	-1.91	190942.650	.5	199138.450	1.5
1219.8450	14.02	-1.91	249817.850	4.0	258013.370	3.0
1219.8502	26.00	-3.09	43434.585	3.0	51630.070	2.0
1219.8584	14.02	-1.81	249817.940	4.0	258013.370	3.0
1219.8912	29.01	-4.15	128558.900	3.0	136754.110	2.0
1219.8912	27.00	-3.32	44568.470	2.5	52763.680	3.5
1219.9373	28.01	-2.95	111120.540	1.5	119315.440	2.5
1219.9433	7.00	-1.26	104683.030	2.5	112877.890	3.5
1220.0246	9.00	-2.87	117872.916	1.5	126067.230	.5
1220.0566	26.00	-2.29	43633.491	2.0	51827.590	2.0
1220.1964	25.00	-4.98	56490.790	2.5	64683.950	1.5
1220.2859	26.00	-4.48	45608.341	6.0	53800.900	5.0
1220.3916	7.00	-.57	95475.280	.5	103667.130	1.5
1220.4079	22.00	-3.88	33680.130	3.0	41871.870	2.0
1220.4675	26.00	-3.70	42911.897	5.0	51103.237	5.0
1220.4781	7.00	-2.73	106758.731	.5	114950.000	.5
1220.4781	7.00	-3.81	106758.731	.5	114950.000	1.5
1220.4794	26.02	-4.24	196901.270	5.0	205092.530	4.0
1220.5167	6.00	-1.16	78307.630	2.0	86498.640	2.0
1220.5301	6.00	-1.53	78307.630	2.0	86498.550	1.0
1220.5539	24.00	-4.44	27382.180	2.0	35572.940	2.0
1220.6553	17.00	-3.53	90193.640	4.5	98383.720	3.5
1220.6955	25.00	-1.41	48300.980	1.5	56490.790	2.5
1220.6985	17.00	-.74	90193.640	4.5	98383.430	4.5
1220.7357	7.00	-2.22	106814.459	2.5	115004.000	2.5
1220.7357	7.00	-3.17	106814.459	2.5	115004.000	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1220.7731	6.00	-.98	78293.490	1.0	86482.780	2.0
1220.9141	26.00	-4.74	42859.756	2.0	51048.100	1.0
1220.9355	25.00	-.43	48168.010	4.5	56356.210	3.5
1220.9534	27.00	-4.89	45540.280	5.5	53728.360	6.5
1221.0012	7.00	-1.48	104765.740	4.5	112953.500	4.5
1221.0101	15.01	-.56	129570.400	1.0	137758.100	0.0
1221.0161	7.00	-.21	104765.740	4.5	112953.400	5.5
1221.1122	10.00	-4.52	162410.174	3.0	170597.190	2.0
1221.1175	27.00	-3.69	45971.190	3.5	54158.170	4.5
1221.1414	14.01	-.17	113976.980	1.5	122163.800	2.5
1221.1458	28.01	-3.42	122144.990	2.5	130331.780	1.5
1221.1503	14.01	-1.13	113976.980	1.5	122163.740	1.5
1221.2587	28.00	-4.18	48671.900	3.0	56857.933	4.0
1221.2739	7.00	-3.26	103667.130	1.5	111853.061	1.5
1221.3129	15.00	-3.34	58174.450	1.5	66360.120	1.5
1221.3129	7.00	-2.57	104683.030	2.5	112868.700	3.5
1221.3359	26.00	-2.68	37409.530	1.0	45595.046	0.0
1221.3413	8.01	-.48	240328.750	.5	248514.230	1.5
1221.4069	27.00	-3.64	46329.630	2.5	54514.670	3.5
1221.4622	6.00	-2.42	81325.760	1.0	89510.430	2.0
1221.4793	26.00	-2.47	43434.585	3.0	51619.140	3.0
1221.4860	29.01	-3.45	128569.600	2.0	136754.110	2.0
1221.5950	28.01	-3.20	112906.930	1.5	121090.710	.5
1221.6099	14.00	-2.84	49188.617	2.0	57372.297	2.0
1221.6314	28.00	-1.72	42605.964	3.0	50789.500	4.0
1221.6388	26.00	-4.25	42784.387	6.0	50967.873	6.0
1221.6427	18.02	-4.53	196613.910	2.0	204797.370	3.0
1221.6442	28.01	-1.97	112719.750	3.5	120903.200	3.5
1221.6572	18.00	-3.78	117151.387	1.0	125334.750	0.0
1221.6995	28.01	-4.44	104503.220	2.5	112686.300	2.5
1221.8577	27.00	-4.57	42988.120	3.5	51170.140	4.5
1221.8724	26.00	-2.57	43763.938	1.0	51945.860	1.0
1221.8843	26.00	-3.10	47197.000	2.0	55378.842	2.0
1221.9085	21.00	-4.08	25724.720	3.5	33906.400	4.5
1221.9100	29.01	-3.01	128853.300	2.0	137034.970	3.0
1221.9219	6.00	-3.49	78731.270	1.0	86912.860	1.0
1221.9279	6.00	-3.77	81343.990	2.0	89525.540	1.0
1221.9545	26.00	-2.80	43763.938	1.0	51945.310	2.0
1222.0531	28.00	-2.01	42653.723	2.0	50834.435	2.0
1222.0653	9.00	-2.41	129607.070	.5	137787.700	1.5
1222.0997	13.01	-1.78	139916.700	1.0	148097.100	0.0
1222.1012	6.00	-1.79	78318.250	3.0	86498.640	2.0
1222.1236	22.00	-4.18	40844.190	3.0	49024.430	3.0
1222.1251	28.01	-2.63	122047.290	3.5	130227.520	2.5
1222.2297	25.00	-4.57	51638.170	2.5	59817.700	2.5
1222.3194	21.00	-4.18	25584.640	2.5	33763.570	1.5
1222.3373	23.00	-3.59	34374.810	3.5	42553.620	4.5
1222.3537	15.00	-3.90	68246.500	2.5	76425.200	2.5
1222.3717	28.01	-1.80	122047.290	3.5	130225.870	3.5
1222.3971	6.00	-2.30	81343.990	2.0	89522.400	2.0
1222.4111	28.00	-1.19	42653.723	2.0	50832.039	3.0
1222.4407	28.00	-1.59	42656.317	1.0	50834.435	2.0
1222.4850	26.00	-2.62	43763.938	1.0	51941.760	0.0
1222.5720	28.01	-2.83	113623.100	.5	121800.340	1.5
1222.5825	18.01	-4.48	183797.360	2.5	191974.530	1.5
1222.6248	28.00	-.97	46522.965	2.0	54699.852	3.0
1222.6437	26.01	-4.69	72169.150	1.5	80345.910	.5
1222.6995	10.00	-4.72	162408.653	2.0	170585.040	1.0
1222.7008	7.00	-1.99	107445.622	1.5	115622.000	2.5
1222.7143	26.00	-2.19	37157.546	2.0	45333.834	2.0
1222.7704	9.00	-1.55	118405.267	.5	126581.180	.5
1222.8845	6.00	-.82	78307.630	2.0	86482.780	2.0
1222.8860	6.00	-3.45	81343.990	2.0	89519.130	3.0
1222.9025	6.00	-1.45	78307.630	2.0	86482.660	3.0
1222.9575	26.00	-3.22	37046.000	4.0	45220.662	3.0
1222.9623	22.00	-4.81	36200.940	5.0	44375.570	5.0
1222.9818	29.01	-4.03	130945.000	2.0	139119.500	3.0
1222.9967	15.00	-1.62	69894.600	1.5	78069.000	1.5
1223.1044	7.01	-3.18	203162.480	0.0	211336.160	1.0
1223.1205	17.00	-.75	83364.927	.5	91538.500	1.5
1223.1252	7.00	-2.99	106814.459	2.5	114988.000	1.5
1223.1252	7.00	-1.80	106814.459	2.5	114988.000	3.5
1223.1359	7.00	-1.07	95493.660	1.5	103667.130	1.5
1223.1613	13.01	-2.70	139916.700	1.0	148090.000	1.0
1223.1613	13.01	-2.22	139916.700	1.0	148090.000	2.0
1223.1898	27.00	-3.23	43921.890	2.5	52095.000	3.5
1223.1913	29.01	-.83	138402.200	3.0	146575.300	2.0
1223.1913	15.01	-2.34	131632.000	3.0	139805.100	3.0
1223.1983	26.00	-3.80	45220.662	3.0	53393.715	4.0
1223.2526	10.01	-1.46	283322.350	1.5	291495.040	2.5
1223.2994	7.00	-2.03	107445.622	1.5	115618.000	.5
1223.2994	7.00	-1.85	107445.622	1.5	115618.000	1.5
1223.2994	7.00	-3.19	107445.622	1.5	115618.000	2.5
1223.4063	7.00	-2.73	106778.337	1.5	114950.000	.5
1223.4063	7.00	-3.00	106778.337	1.5	114950.000	1.5
1223.4079	28.00	-4.62	50458.187	1.0	58629.840	2.0
1223.4262	18.00	-1.40	113020.390	3.0	121191.920	2.0
1223.4899	26.00	-4.89	37162.729	3.0	45333.834	2.0
1223.5558	18.00	-4.24	116942.815	3.0	125113.480	2.0
1223.5720	17.00	-3.41	82918.893	2.5	91089.450	3.5
1223.5910	27.00	-1.98	45105.590	3.5	53276.020	4.5
1223.6479	27.00	-3.89	45766.630	3.5	53936.680	2.5
1223.6793	23.00	-4.24	31228.980	2.5	39398.820	3.5
1223.7069	18.00	-3.63	117183.654	2.0	125353.310	1.0
1223.7526	26.00	-4.73	43022.969	4.0	51192.320	4.0
1223.7662	26.00	-3.71	49804.900	3.0	57974.160	2.0
1223.7700	3.00	-.12	30925.000	0.0	39096.470	0.0
1223.7737	16.01	-.77	156148.190	.5	164317.400	1.5
1223.8006	16.01	-2.11	156603.670	3.5	164772.700	3.5
1223.8231	15.00	-2.85	58174.450	1.5	66343.330	.5
1223.8636	9.00	-4.35	129772.830	2.5	137941.440	2.5
1223.9044	26.00	-2.31	40534.180	3.0	48702.518	4.0
1223.9235	28.01	-1.76	122047.290	3.5	130215.500	4.5
1223.9520	25.00	.02	48021.430	5.5	56189.450	4.5
1223.9670	28.01	-1.31	129367.910	6.5	137535.830	5.5
1224.0021	22.00	-2.49	17369.590	1.0	25537.276	1.0
1224.0245	26.00	-4.31	45964.944	2.0	54132.480	1.0
1224.0544	22.00	-3.76	33655.853	2.0	41823.190	3.0
1224.1183	6.00	-1.86	81343.990	2.0	89510.900	3.0
1224.1263	22.00	-2.71	37555.021	3.0	45721.878	4.0
1224.1573	22.00	-3.34	36208.920	4.0	44375.570	5.0
1224.1618	27.00	-4.00	46260.020	1.5	54426.640	1.5
1224.1828	20.02	-1.03	362893.470	2.0	371059.950	3.0
1224.1888	6.00	-3.27	81343.990	2.0	89510.430	2.0
1224.2642	26.00	-3.36	42532.729	3.0	50698.666	2.0
1224.4062	21.00	-4.73	30706.610	1.5	38871.600	2.5
1224.4422	6.00	-1.33	78249.940	4.0	86414.690	4.0
1224.4647	17.01	-4.46	145468.500	1.0	153633.100	1.0
1224.4721	6.00	-3.64	78249.940	4.0	86414.490	3.0
1224.4751	6.00	-1.76	78318.250	3.0	86482.780	2.0
1224.4931	6.00	-.57	78318.250	3.0	86482.660	3.0
1224.5001	26.00	-3.89	29356.780	2.0	37521.144	2.0
1224.6052	7.00	-3.22	106778.337	1.5	114942.000	2.5
1224.6177	7.00	-2.47	104716.920	3.5	112880.500	2.5
1224.6375	14.00	-3.40	54257.582	3.0	62421.030	3.0
1224.7347	7.00	-.33	104664.100	1.5	112826.900	2.5
1224.8337	27.00	-3.25	43398.620	3.5	51560.760	2.5
1224.8487	6.00	-2.88	78249.940	4.0	86411.980	3.0
1224.8727	6.00	-.20	78307.630	2.0	86469.510	3.0
1224.9148	28.01	-2.56	122047.290	3.5	130208.890	3.5
1224.9298	15.01	-.13	129666.100	2.0	137827.600	1.0
1224.9358	28.01	-.34	129367.910	6.5	137529.370	6.5
1224.9403	23.00	-1.34	19026.340	2.5	27187.770	2.5
1224.9433	27.00	-4.97	47393.930	2.5	55555.340	2.5
1225.0093	7.00	-3.95	104716.920	3.5	112877.890	3.5
1225.0108	7.00	-.14	104716.920	3.5	112877.880	4.5
1225.0439	28.01	-2.79	113225.060	.5	121385.800	1.5
1225.0499	22.00	-4.15	39302.360	4.0	47463.060	4.0
1225.0754	24.00	-4.97	47048.480	3.0	55209.010	4.0
1225.1290	26.00	-4.54	43210.011	2.0	51370.184	2.0
1225.1460	26.00	-2.20	49737.110	5.0	57897.170	5.0
1225.1932	22.00	-2.37	17540.205	3.0	25699.950	2.0
1225.2135	28.01	-1.77	122047.290	3.5	130206.900	4.5
1225.2796	29.01	-4.91	125568.700	1.0	133727.870	2.0
1225.3227	8.00	-1.41	95467.740	2.0	103626.623	3.0
1225.3466	22.00	-3.93	27907.026	2.0	36065.750	3.0
1225.3592	27.00	-2.67	43911.360	1.5	52070.000	2.5
1225.3847	22.00	-3.89	29818.310	3.0	37976.780	2.0
1225.3937	25.00	-4.17	56490.790	2.5	64649.200	3.5
1225.3978	8.00	-1.55	95467.740	2.0	103626.123	2.0
1225.4514	8.00	-1.78	95467.740	2.0	103625.766	1.0
1225.5154	29.01	-1.60	138402.200	3.0	146559.800	4.0
1225.5154	8.01	-4.64	250251.000	.5	258408.600	.5
1225.5184	25.01	-3.43	62587.500	3.0	70745.080	3.0
1225.5274	28.01	-4.81	128803.230	2.5	136960.750	2.5
1225.5647	22.00	-.01	31628.668	5.0	39785.940	4.0
1225.6296	7.00	-1.48	104810.330	2.5	112967.170	3.5
1225.7017	28.01	-3.70	122175.420	2.5	130331.780	1.5
1225.7092	24.00	-5.00	47048.480	3.0	55204.790	3.0
1225.7169	22.00	-4.32	37555.021	3.0	45711.280	4.0
1225.7964	20.02	-3.93	363118.750	3.0	371274.480	2.0
1225.9062	7.00	-1.57	104810.330	2.5	112965.330	3.5
1225.9362	17.01	-4.49	146469.000	3.0	154623.800	4.0
1225.9602	28.01	-4.23	121325.090	2.5	129479.730	1.5
1225.9963	29.01	.10	138402.200	3.0	146556.600	3.0
1226.0414	24.00	-3.83	47054.910	4.0	55209.010	4.0
1226.1016	24.00	-3.34	47055.310	5.0	55209.010	4.0
1226.1241	7.00	-.23	96864.020	2.5	105017.570	3.5
1226.1467	15.00	-4.56	69980.100	3.5	78133.500	2.5
1226.1532	9.00	-2.54	118427.823	1.5	126581.180	.5
1226.1556	26.00	-3.78	45913.480	3.0	54066.821	2.0
1226.1933	26.00	-3.73	45913.480	3.0	54066.570	4.0
1226.1935	22.00	-.23	31373.801	3.0	39526.890	2.0
1226.2445	24.00	-3.93	37205.880	3.0	45358.630	4.0
1226.2572	26.00	-4.22	46727.055	2.0	54879.720	2.0
1226.2926	10.01	-4.50	305566.940	1.5	313719.370	2.5
1226.3046	28.01	-2.63	113408.710	1.5	121561.060	.5
1226.3903	7.00	-1.56	104716.920	3.5	112868.700	3.5
1226.3994	28.01	.37	129367.910	6.5	137519.630	7.5
1226.4281	22.00	-.12	31489.451	4.0	39640.980	3.0
1226.4460	6.00	-.19	78318.250	3.0	86469.660	4.0
1226.4508	7.00	-4.34	107445.622	1.5	115597.000	1.5
1226.4686	6.00	-1.76	78318.250	3.0	86469.510	3.0
1226.5077	25.00	-4.84	37789.930	2.5	45940.930	2.5
1226.5663	18.00	-4.31	116999.389	2.0	125150.000	3.0
1226.6116	14.02	-.41	234387.640	1.0	242537.950	0.0
1226.6469	26.00	-3.96	47755.485	3.0	55905.560	4.0
1226.7596	12.00	-4.79	41197.403	1.0	49346.729	1.0
1226.7741	20.02	-1.54	331048.860	0.0	339198.090	1.0
1226.7817	28.01	-4.66	121325.090	2.5	129474.270	3.5
1226.7943	26.00	-5.00	26406.490	1.0	34555.586	0.0
1226.8012	15.00	-2.87	56090.450	1.5	64239.500	.5
1226.9247	27.00	-3.29	44568.470	2.5	52716.700	3.5
1226.9298	26.00	-4.32	45726.104	5.0	53874.300	5.0
1226.9428	27.00	-3.02	43921.890	2.5	52070.000	2.5
1227.0089	26.00	-4.38	47377.909	4.0	55525.580	5.0
1227.0376	28.01	-3.14	113177.610	3.5	121325.090	2.5
1227.0436	27.00	-1.78	46329.630	2.5	54477.070	3.5
1227.0541	7.00	-4.46	104810.330	2.5	112957.700	1.5
1227.0541	7.00	-2.07	104810.330	2.5	112957.700	2.5
1227.0692	14.00	-.41	39955.053	2.0	48102.323	2.0
1227.0768	23.01	-3.22	44098.460	3.0	52245.680	2.0
1227.0798	7.00	-1.37	95475.280	.5	103622.480	.5
1227.0903	7.01	-1.88	203189.030	1.0	211336.160	1.0
1227.1024	27.00	-1.59	44555.710	1.5	52702.760	1.5
1227.1385	26.01	-4.01	92602.940	3.5	100749.750	2.5
1227.2395	25.00	-2.46	51638.170	2.5	59784.310	3.5
1227.2967	23.01	-2.47	44657.990	2.0	52803.750	1.0
1227.4051	18.00	-2.16	113020.390	3.0	121165.431	3.0
1227.4097	25.00	-4.91	56567.930	1.5	64712.940	2.5
1227.4417	26.00	-3.05	43922.652	3.0	52067.450	2.0
1227.4866	7.00	-2.61	96864.020	2.5	105008.520	2.5
1227.5167	15.00	-1.38	69924.700	2.5	78069.000	1.5
1227.5604	28.01	-1.75	108368.050	2.5	116512.060	3.5
1227.5815	7.00	-1.33	104683.030	2.5	112826.900	2.5
1227.5815	7.00	-.58	104683.030	2.5	112826.900	3.5
1227.6026	28.01	-2.67	112906.930	1.5	121050.660	2.5
1227.7037	22.00	-4.13	33680.130	3.0	41823.190	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1227.7530	28.00	-2.27	48715.200	4.0	56857.933	4.0
1227.7534	28.01	-1.15	122084.790	1.5	130227.520	2.5
1227.8046	10.01	-1.66	294333.220	.5	302475.610	.5
1227.8078	10.00	-4.50	161701.451	3.0	169843.820	2.0
1227.8363	22.00	-2.71	37690.320	5.0	45832.500	5.0
1227.8499	7.00	-1.65	104825.080	2.5	112967.170	3.5
1227.8876	9.02	-4.38	432060.640	1.5	440202.480	2.5
1227.9404	24.00	-3.25	46677.060	2.0	54818.550	2.0
1227.9691	28.00	-2.66	50851.220	1.0	58992.520	2.0
1227.9766	29.01	-3.20	128778.100	4.0	136919.350	3.0
1228.0311	10.00	-4.94	161607.261	2.0	169748.150	1.0
1228.0430	6.00	-2.81	81311.010	0.0	89451.820	1.0
1228.1275	7.00	-.98	104825.080	2.5	112965.330	3.5
1228.1350	24.00	-4.23	46678.350	1.0	54818.550	2.0
1228.1396	18.01	-.75	186890.950	2.5	195031.120	2.5
1228.1576	24.00	-3.63	46846.770	3.0	54986.820	3.0
1228.1878	29.01	-3.69	133594.050	3.0	141733.900	2.0
1228.1969	28.01	-.36	129396.040	5.5	137535.830	5.5
1228.1969	27.00	-2.98	47128.960	2.5	55268.750	3.5
1228.1970	10.00	-4.90	161699.661	2.0	169839.450	1.0
1228.3025	26.00	-3.49	49558.500	4.0	57697.590	4.0
1228.3120	20.00	-1.63	40537.893	3.0	48676.920	2.0
1228.3120	20.00	-4.53	40537.893	3.0	48676.920	3.0
1228.3266	26.00	-4.63	42859.756	2.0	50998.686	2.0
1228.3792	22.00	-3.59	37617.868	4.0	45756.450	5.0
1228.3810	22.00	-4.39	33680.130	3.0	41818.700	4.0
1228.4821	28.01	.31	130751.030	5.5	138888.930	6.5
1228.5229	28.01	-4.01	128822.230	1.5	136959.860	2.5
1228.6029	28.01	-3.79	122047.290	3.5	130184.390	2.5
1228.6811	14.00	-3.26	54313.818	1.0	62450.400	1.0
1228.7101	22.01	-4.10	59467.810	3.5	67604.200	3.5
1228.7282	7.00	-3.47	104810.330	2.5	112946.600	1.5
1228.7939	20.00	-.15	39340.080	2.0	47475.915	3.0
1228.7992	13.01	-2.47	139916.700	1.0	148052.500	1.0
1228.8113	26.00	-4.93	46313.610	2.0	54449.330	1.0
1228.8143	15.01	-.05	130174.300	2.0	138310.000	2.0
1228.8234	28.01	-2.00	112906.930	1.5	121042.570	1.5
1228.8309	28.01	-3.39	112906.930	1.5	121042.520	1.5
1228.8384	7.00	-2.71	106814.459	2.5	114950.000	1.5
1228.8649	7.00	-4.16	106868.635	3.5	115004.000	2.5
1228.8649	7.00	-2.49	106868.635	3.5	115004.000	3.5
1228.8808	7.00	-.22	96750.810	1.5	104886.070	.5
1228.8989	28.01	-1.05	129396.040	5.5	137531.180	4.5
1228.9125	27.00	-2.67	43425.710	2.5	51560.760	2.5
1228.9185	7.00	-.53	95532.120	2.5	103667.130	1.5
1228.9362	18.00	-2.10	117151.387	1.0	125286.280	1.0
1228.9398	22.00	-4.40	37555.021	3.0	45689.890	3.0
1228.9586	26.00	-4.01	46744.975	3.0	54879.720	2.0
1228.9714	26.01	-3.39	72043.210	1.5	80177.870	1.5
1229.0273	27.00	-3.76	44568.470	2.5	52702.760	1.5
1229.1316	28.01	-4.81	128827.150	3.5	136960.750	2.5
1229.1564	14.00	-2.41	54185.264	1.0	62318.700	0.0
1229.1724	28.01	-.01	129396.040	5.5	137529.370	6.5
1229.2088	28.00	-2.67	42621.048	3.0	50754.137	2.0
1229.2510	26.01	-3.51	72213.100	.5	80345.910	.5
1229.2767	22.00	-4.99	39149.260	2.0	47281.900	3.0
1229.2796	7.00	-2.71	104825.080	2.5	112957.700	1.5
1229.2796	7.00	-2.66	104825.080	2.5	112957.700	2.5
1229.2978	26.01	-2.82	79439.300	3.5	87571.800	2.5
1229.3024	28.01	-4.03	107737.810	1.5	115870.280	2.5
1229.3583	15.01	-.38	129626.000	1.0	137758.100	0.0
1229.4641	25.00	-3.94	57485.970	2.5	65617.370	3.5
1229.4839	7.00	-2.88	106758.731	.5	114890.000	1.5
1229.5080	16.01	-1.63	156148.190	.5	164279.300	.5
1229.5712	20.00	-.42	39335.322	1.0	47466.014	2.0
1229.5745	23.00	-3.17	31268.150	3.5	39398.820	3.5
1229.5745	16.01	-2.68	156121.330	2.5	164252.000	1.5
1229.6289	24.00	-2.58	46688.240	3.0	54818.550	2.0
1229.6426	25.00	-.67	48225.990	3.5	56356.210	3.5
1229.7091	27.00	-2.62	43911.360	1.5	52041.140	.5
1229.7211	26.00	-2.53	39625.784	4.0	47755.485	3.0
1229.7409	9.00	-4.75	129659.500	3.5	137789.070	3.5
1229.7454	28.01	-3.13	111783.790	3.5	119913.330	4.5
1229.8230	26.00	-3.88	43079.013	1.0	51208.040	1.0
1229.8544	7.00	-.67	95493.660	1.5	103622.480	.5
1229.8826	22.00	-4.77	39152.057	5.0	47280.690	5.0
1229.8876	15.00	-4.56	72493.800	1.5	80622.400	2.5
1229.9123	17.00	-4.05	94973.683	.5	103102.120	1.5
1229.9276	18.00	-4.65	116660.054	1.0	124788.390	1.0
1230.0344	24.00	-4.17	46677.060	2.0	54804.690	1.0
1230.0478	7.00	-2.27	106814.459	2.5	114942.000	2.5
1230.1043	26.00	-2.74	43922.652	3.0	52049.820	2.0
1230.1190	20.00	-2.73	37298.287	2.0	45425.358	1.0
1230.1449	15.01	-3.49	130913.700	3.0	139040.600	4.0
1230.1706	14.03	-.02	322312.930	.5	330439.660	.5
1230.1737	27.00	-4.20	47393.930	2.5	55520.640	3.5
1230.2297	24.00	-3.00	46678.350	1.0	54804.690	1.0
1230.2660	18.01	-.73	191012.350	1.5	199138.450	1.5
1230.2705	27.00	-4.15	46032.100	4.5	54158.170	4.5
1230.2721	6.00	-3.08	81325.760	1.0	89451.820	1.0
1230.2912	20.00	-.83	39340.080	2.0	47466.014	2.0
1230.2961	26.00	-4.96	43022.969	4.0	51148.870	3.0
1230.4659	17.00	-1.60	88188.550	1.5	96313.330	1.5
1230.4672	11.00	-3.72	29172.839	2.5	37297.610	1.5
1230.4748	11.00	-4.68	29172.889	1.5	37297.610	1.5
1230.4886	37.00	-2.20	23792.591	0.0	31919.444	0.0
1230.5522	25.00	-4.72	44978.980	1.5	53103.190	1.5
1230.5640	22.00	-2.47	17369.590	1.0	25493.722	2.0
1230.5977	25.00	-3.13	55107.520	3.5	63231.430	4.5
1230.6316	18.00	-4.88	116942.815	3.0	125066.501	2.0
1230.6370	25.00	-3.92	37630.620	4.5	45754.270	3.5
1230.6702	11.00	-3.98	29172.889	1.5	37296.320	.5
1230.6779	28.01	-3.40	114052.040	3.5	122175.420	2.5
1230.7098	10.01	-1.13	282680.650	.5	290803.820	.5
1230.7250	20.00	-.76	39333.382	0.0	47456.452	1.0
1230.7265	18.01	-1.34	147227.970	.5	155351.030	1.5
1230.7785	18.00	-2.68	116660.054	1.0	124782.770	1.0
1230.8355	25.00	-3.79	44978.980	1.5	53101.320	.5
1230.9022	27.00	-3.32	43911.360	1.5	52033.260	1.5
1230.9355	23.00	-2.34	30120.780	2.5	38242.460	3.5
1230.9416	6.00	-3.03	81325.760	1.0	89447.400	2.0
1230.9598	7.00	-3.67	104825.080	2.5	112946.600	1.5
1231.0189	20.00	-.85	39335.322	1.0	47456.452	1.0
1231.0365	28.00	-4.44	42585.296	4.0	50706.310	4.0
1231.0644	29.01	-4.61	136694.100	4.0	144814.930	3.0
1231.0644	14.01	-1.93	119311.450	3.5	127432.280	3.5
1231.0644	14.01	-.39	119311.450	3.5	127432.280	4.5
1231.0871	24.00	-3.70	37233.500	5.0	45354.180	5.0
1231.0872	14.01	-.50	119311.600	2.5	127432.280	3.5
1231.1477	11.00	-1.00	30266.990	.5	38387.270	1.5
1231.2039	23.02	-3.50	154265.200	3.5	162385.110	3.5
1231.2865	7.00	-4.55	106868.635	3.5	114988.000	2.5
1231.2865	7.00	-1.84	106868.635	3.5	114988.000	3.5
1231.3297	24.00	-4.21	27382.180	2.0	35501.260	3.0
1231.4086	6.00	-.07	78293.490	1.0	86412.050	2.0
1231.4935	10.03	-1.27	633790.000	1.5	641908.000	.5
1231.5199	22.00	-3.56	33700.874	4.0	41818.700	4.0
1231.5859	17.00	-.58	84485.309	1.5	92602.700	.5
1231.7393	28.01	-1.23	129419.580	4.5	137535.960	3.5
1231.7406	20.00	-1.96	39340.080	2.0	47456.452	1.0
1231.7591	28.01	-.19	129419.580	4.5	137535.830	5.5
1231.8001	27.00	-4.86	46329.630	2.5	54445.610	2.5
1231.8176	20.00	-3.09	38192.392	1.0	46308.257	2.0
1231.8380	28.01	-4.72	113321.950	4.5	121437.680	5.5
1231.8577	15.01	-1.31	131689.500	4.0	139805.100	3.0
1231.9139	24.00	-4.90	37233.500	5.0	45348.730	6.0
1231.9959	11.00	-1.70	30272.580	1.5	38387.270	1.5
1231.9978	11.00	-.75	30272.580	1.5	38387.257	2.5
1232.0132	26.00	-2.64	45726.104	5.0	53840.680	6.0
1232.0308	24.00	-4.08	37244.170	4.0	45358.630	4.0
1232.0596	27.00	-4.26	44658.030	1.5	52772.300	2.5
1232.0868	18.00	-4.77	116999.389	2.0	125113.480	2.0
1232.0870	25.00	-4.97	43524.080	3.5	51638.170	2.5
1232.0976	10.00	-2.90	159534.620	1.0	167648.640	2.0
1232.1370	20.00	-4.05	39335.322	1.0	47449.083	2.0
1232.1883	22.00	-2.73	17423.853	2.0	25537.276	1.0
1232.3376	28.01	-1.21	122084.790	1.5	130197.230	1.5
1232.3816	7.00	-3.13	104765.740	4.5	112877.890	3.5
1232.3831	7.00	-1.55	104765.740	4.5	112877.880	4.5
1232.4348	28.01	-.58	129424.030	5.5	137535.830	5.5
1232.4556	7.00	-2.08	106778.337	1.5	114890.000	1.5
1232.4628	18.00	-1.98	116660.054	1.0	124771.670	2.0
1232.4652	28.01	-.28	129419.580	4.5	137531.180	4.5
1232.5001	27.00	-3.08	43921.890	2.5	52033.260	1.5
1232.5173	20.00	-2.31	38192.392	1.0	46303.649	2.0
1232.5306	18.00	-3.83	112138.980	2.0	120250.150	3.0
1232.6369	28.01	-4.38	130730.530	2.5	138841.000	3.5
1232.7068	24.00	-4.44	37244.170	4.0	45354.180	5.0
1232.7114	7.00	-2.81	104716.920	3.5	112826.900	2.5
1232.7114	7.00	-1.40	104716.920	3.5	112826.900	3.5
1232.7661	23.00	-2.44	19078.150	3.5	27187.770	2.5
1232.7720	20.00	-1.81	38192.392	1.0	46301.973	1.0
1232.7767	14.02	-.11	234428.400	1.0	242537.950	0.0
1232.8041	23.01	-4.23	44657.990	2.0	52767.360	3.0
1232.8599	20.00	-3.58	39340.080	2.0	47449.083	2.0
1232.8771	7.00	.06	96750.810	1.5	104859.700	1.5
1232.9805	24.00	-2.41	46878.610	3.0	54986.820	3.0
1233.0382	6.00	-2.80	81343.990	2.0	89451.820	1.0
1233.0422	26.00	-3.32	47017.170	3.0	55124.974	3.0
1233.1417	28.01	-1.34	129424.030	5.5	137531.180	4.5
1233.1417	25.00	-4.75	33825.490	2.5	41932.640	3.5
1233.1432	28.00	-3.80	43933.428	2.0	52040.568	2.0
1233.1694	7.00	-2.58	106996.032	1.5	115103.000	2.5
1233.1858	6.00	-.68	78307.630	2.0	86414.490	3.0
1233.1884	26.00	-4.38	47271.999	1.0	55378.842	2.0
1233.2056	23.01	-9.08	26839.820	3.0	34946.550	4.0
1233.3045	22.00	-3.49	34078.580	3.0	42184.660	4.0
1233.3182	28.01	-3.70	128853.870	2.5	136959.860	2.5
1233.3349	22.00	-3.42	38544.380	3.0	46650.260	3.0
1233.3577	28.01	-3.80	101740.270	3.5	109846.000	3.5
1233.3592	6.00	-2.47	81325.760	1.0	89431.480	2.0
1233.3866	18.01	-2.02	186890.950	2.5	194996.490	1.5
1233.4079	17.01	-2.87	150681.000	2.0	158786.400	3.0
1233.4171	28.01	-.20	129424.030	5.5	137529.370	6.5
1233.4778	10.00	-3.09	159534.620	1.0	167639.561	1.0
1233.5175	14.02	.31	249817.320	3.0	257922.000	4.0
1233.5204	26.00	-3.73	43499.485	4.0	51604.146	3.0
1233.5571	6.00	-1.01	78307.630	2.0	86412.050	2.0
1233.5586	6.00	-2.70	81343.990	2.0	89448.400	3.0
1233.5677	6.00	-.44	78307.630	2.0	86411.980	3.0
1233.5982	14.02	-1.24	249817.850	4.0	257922.000	4.0
1233.5982	14.02	.41	249817.850	4.0	257922.000	5.0
1233.5982	14.02	-3.23	249817.850	4.0	257922.000	5.0
1233.6107	7.00	-3.03	106996.032	1.5	115100.100	2.5
1233.6119	14.02	-4.18	249817.940	4.0	257922.000	5.0
1233.6119	14.02	.41	249817.940	4.0	257922.000	5.0
1233.6119	14.02	-1.34	249817.940	4.0	257922.000	4.0
1233.6195	22.00	-4.72	37617.868	4.0	45721.878	4.0
1233.6317	28.01	-.70	129419.580	4.5	137523.510	3.5
1233.6500	16.01	-2.06	156148.190	.5	164252.000	1.5
1233.6986	22.00	-2.22	17540.205	3.0	25643.695	3.0
1233.7108	6.00	-3.25	81343.990	2.0	89447.400	2.0
1233.7626	14.02	-1.23	249818.930	5.0	257922.000	5.0
1233.7626	14.02	-1.34	249818.930	5.0	257922.000	5.0
1233.7626	14.02	.49	249818.930	5.0	257922.000	6.0
1233.7626	14.02	-2.98	249818.930	5.0	257922.000	4.0
1233.7793	7.00	-2.40	104765.740	4.5	112868.700	3.5
1233.8302	18.00	-4.61	117183.654	2.0	125286.280	1.0
1233.8494	17.01	-2.97	145468.500	1.0	153571.000	1.0
1233.8687	14.00	-2.58	56780.427	1.0	64882.800	2.0
1233.9443	26.00	-3.75	45964.944	2.0	54066.821	2.0
1233.9514	14.03	.28	322337.830	1.5	330439.660	.5
1233.9636	27.00	-1.95	48443.760	2.5	56545.510	2.5
1233.9682	18.01	-1.23	196315.510	2.5	204417.230	1.5
1233.9895	9.02	-3.07	431967.930	.5	440069.510	1.5
1234.0078	28.01	-1.87	99040.750	1.5	107142.210	1.5
1234.0506	26.00	-4.95	18378.187	2.0	26479.366	1.0
1234.1671	28.00	-1.50	42653.723	2.0	50754.137	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1234.1845	15.00	-.64	72493.800	1.5	80594.100	1.5
1234.1845	13.01	-1.84	139242.900	3.0	147343.200	2.0
1234.2607	19.02	-3.05	237912.200	1.5	246012.000	1.5
1234.2912	28.01	-4.06	122084.790	1.5	130184.390	2.5
1234.2939	26.00	-2.30	37409.530	1.0	45509.112	1.0
1234.3094	25.00	-4.31	51718.220	1.5	59817.700	2.5
1234.3143	22.00	-6.87	13981.750	1.0	22081.198	2.0
1234.3377	18.00	-.79	105617.315	2.0	113716.610	3.0
1234.3628	23.00	-4.38	34065.610	2.5	42164.740	3.5
1234.4001	26.00	-4.28	45294.830	5.0	53393.715	4.0
1234.4710	7.00	-3.17	96787.650	1.5	104886.070	.5
1234.5037	7.00	-3.59	104221.600	1.5	112319.805	1.5
1234.5350	7.00	-1.37	104859.700	1.5	112957.700	1.5
1234.5350	7.00	-2.47	104859.700	1.5	112957.700	2.5
1234.5625	28.00	-1.56	42656.317	1.0	50754.137	2.0
1234.5960	26.01	-1.92	79439.300	3.5	87536.900	3.5
1234.6860	27.00	-3.55	46329.630	2.5	54426.640	1.5
1234.6951	27.00	-4.33	40621.620	1.5	48718.570	2.5
1234.7485	8.01	-.18	240328.750	.5	248425.350	.5
1234.7729	6.00	-.10	78318.250	3.0	86414.690	4.0
1234.7828	22.00	-4.60	31205.985	3.0	39302.360	4.0
1234.7912	27.00	-3.16	46186.410	1.5	54282.730	2.5
1234.8034	6.00	-1.46	78318.250	3.0	86414.490	3.0
1234.8354	24.00	-4.09	46878.610	3.0	54974.640	2.0
1234.8798	10.00	-4.93	161701.451	3.0	169797.190	3.0
1234.8919	25.00	-5.00	45013.550	2.5	53109.210	2.5
1234.9712	28.01	-4.96	130480.550	3.5	138575.690	2.5
1235.1451	29.01	-.82	138402.200	3.0	146496.200	3.0
1235.1756	6.00	-2.86	78318.250	3.0	86412.050	2.0
1235.1863	6.00	-1.21	78318.250	3.0	86411.980	3.0
1235.3054	28.01	-3.96	114052.040	3.5	122144.990	2.5
1235.3191	28.01	-3.81	128867.000	3.5	136959.860	2.5
1235.3267	28.01	-4.14	130470.900	4.5	138563.710	3.5
1235.3512	10.01	-.34	294333.220	.5	302425.870	1.5
1235.5054	26.01	-4.42	54870.620	2.5	62962.260	1.5
1235.5893	18.00	-.87	112138.980	2.0	120230.070	2.0
1235.6229	28.00	-4.59	42653.723	2.0	50744.593	1.0
1235.6290	18.00	.28	112138.980	2.0	120229.810	3.0
1235.6963	27.00	-2.53	45105.590	3.5	53195.980	2.5
1235.7283	25.01	-2.64	68284.380	3.0	76374.560	2.0
1235.8108	25.00	-3.52	45013.550	2.5	53103.190	1.5
1235.8509	7.00	-2.05	107445.622	1.5	115535.000	2.5
1235.8552	14.01	-2.47	111184.720	.5	119274.070	1.5
1235.8598	16.01	-3.72	156029.280	1.5	164118.600	.5
1235.8719	28.01	-2.56	122084.790	1.5	130174.030	1.5
1235.8873	20.00	-2.49	38219.118	2.0	46308.257	2.0
1235.9534	22.00	-4.23	37622.573	3.0	45711.280	4.0
1235.9590	28.01	-1.86	114052.040	3.5	122140.710	4.5
1235.9896	28.01	-4.12	129474.270	3.5	137562.740	3.5
1236.0192	28.00	-4.09	42656.317	1.0	50744.593	1.0
1236.0324	28.01	-2.44	109675.720	.5	117763.910	1.5
1236.0333	10.00	-2.56	163401.301	0.0	171489.485	1.0
1236.0843	27.00	-4.82	47225.110	3.5	55312.960	4.5
1236.1103	28.01	-3.06	122812.970	3.5	130900.650	2.5
1236.1226	17.01	-2.48	150681.000	2.0	158768.600	2.0
1236.1394	6.00	-2.45	81343.990	2.0	89431.480	2.0
1236.2233	20.00	-2.21	38219.118	2.0	46306.059	3.0
1236.2296	7.00	-2.04	104859.700	1.5	112946.600	.5
1236.2296	7.00	-2.88	104859.700	1.5	112946.600	1.5
1236.2977	28.00	-2.55	48715.200	4.0	56801.654	5.0
1236.3223	26.00	-3.47	40842.130	3.0	48928.423	2.0
1236.3289	23.01	-2.72	44159.430	2.0	52245.680	2.0
1236.3901	7.00	-4.21	104881.320	3.5	112967.170	3.5
1236.4069	7.00	-.29	104881.320	3.5	112967.060	4.5
1236.4742	25.00	-1.77	48270.910	2.5	56356.210	3.5
1236.4800	28.00	-1.44	42621.048	3.0	50706.310	4.0
1236.4956	28.01	-2.98	122140.710	4.5	130225.870	3.5
1236.5369	22.00	-.87	38159.710	3.0	46244.600	2.0
1236.5659	28.01	-4.69	127991.560	3.5	136076.260	4.5
1236.5918	20.00	-1.69	38219.118	2.0	46303.649	2.0
1236.6152	7.00	-3.67	107445.622	1.5	115530.000	.5
1236.6152	7.00	-2.27	107445.622	1.5	115530.000	1.5
1236.6241	24.00	-4.85	48507.560	1.0	56591.880	2.0
1236.6287	28.01	-1.74	122112.940	.5	130197.230	1.5
1236.6715	7.00	-3.42	104881.320	3.5	112965.330	3.5
1236.7036	17.01	-3.75	153571.000	1.0	161654.800	1.0
1236.7051	29.01	-.65	136799.300	2.0	144883.090	2.0
1236.7112	6.00	-2.04	80562.850	1.0	88646.600	1.0
1236.7455	28.00	-2.69	42605.964	3.0	50689.490	2.0
1236.7786	24.00	-4.52	47125.700	3.0	55209.010	4.0
1236.8015	28.01	-4.04	130480.550	3.5	138563.710	3.5
1236.8153	28.00	-3.59	50789.500	4.0	58872.570	4.0
1236.8482	20.00	-2.26	38219.118	2.0	46301.973	1.0
1236.8979	28.01	-2.08	122144.990	2.5	130227.520	2.5
1236.9224	22.00	-3.93	39198.320	6.0	47280.690	5.0
1237.0112	24.00	-3.02	46905.030	4.0	54986.820	3.0
1237.0423	26.00	-4.07	43137.472	3.0	51219.059	3.0
1237.0831	23.00	-3.59	31317.500	4.5	39398.820	3.5
1237.1505	28.01	-2.00	122144.990	2.5	130225.870	3.5
1237.2393	13.01	-3.90	138496.700	1.0	146577.000	0.0
1237.2393	13.01	-3.51	138496.700	1.0	146577.000	1.0
1237.2393	13.01	-3.20	138496.700	1.0	146577.000	2.0
1237.2442	26.00	-4.62	43022.969	4.0	51103.237	5.0
1237.2840	22.00	-4.71	33114.412	2.0	41194.420	3.0
1237.4200	14.02	.10	249774.480	2.0	257853.600	3.0
1237.4246	24.00	-4.70	47125.700	3.0	55204.790	3.0
1237.4522	27.00	-2.41	44555.710	1.5	52634.620	.5
1237.4537	14.02	-.96	249774.700	3.0	257853.600	3.0
1237.4537	14.02	-.02	249774.700	3.0	257853.600	4.0
1237.4537	14.02	-.16	249774.700	3.0	257853.600	4.0
1237.4828	18.01	-.75	183090.810	1.5	191169.520	1.5
1237.4966	14.02	-2.76	249774.980	4.0	257853.600	3.0
1237.4966	14.02	-1.19	249774.980	4.0	257853.600	4.0
1237.4966	14.02	-1.33	249774.980	4.0	257853.600	4.0
1237.4966	14.02	.33	249774.980	4.0	257853.600	5.0
1237.5036	26.00	-4.35	42532.729	3.0	50611.303	3.0
1237.5337	7.00	-3.04	107445.622	1.5	115524.000	.5
1237.5337	7.00	-3.14	107445.622	1.5	115524.000	1.5
1237.5337	7.00	-2.19	107445.622	1.5	115524.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1237.6222	27.00	-3.08	45540.280	5.5	53618.080	6.5
1237.6927	22.00	-3.05	33680.130	3.0	41757.470	3.0
1237.7173	7.01	-4.79	203258.980	2.0	211336.160	1.0
1237.7214	18.00	-1.80	107289.747	2.0	115366.900	1.0
1237.7295	28.01	-4.83	128822.230	1.5	136899.330	1.5
1237.7417	7.00	-2.93	106980.480	.5	115057.500	1.5
1237.7662	18.00	-.72	114641.040	2.0	122717.900	3.0
1237.8398	7.00	-3.04	104881.320	3.5	112957.700	2.5
1237.8720	6.00	-2.55	80562.850	1.0	88639.020	1.0
1237.9379	28.01	-4.24	130765.260	3.5	138841.000	3.5
1237.9684	7.00	-1.79	106814.459	2.5	114890.000	1.5
1238.0836	28.01	-2.50	122140.710	4.5	130215.500	4.5
1238.1280	26.01	-4.50	54870.620	2.5	62945.120	3.5
1238.1633	7.00	.25	96750.810	1.5	104825.080	2.5
1238.1801	9.00	-4.13	129381.860	2.5	137456.020	3.5
1238.1802	27.00	-4.61	46872.740	3.5	54946.900	2.5
1238.2108	21.00	-4.41	25724.720	3.5	33798.680	2.5
1238.2123	6.00	-3.97	80562.850	1.0	88636.800	2.0
1238.2461	10.01	-2.32	283894.410	.5	291968.140	.5
1238.3021	7.00	-1.62	106868.635	3.5	114942.000	2.5
1238.3228	28.01	-4.61	104646.520	3.5	112719.750	3.5
1238.3685	26.00	-3.00	43763.938	1.0	51836.870	1.0
1238.4240	24.00	-3.82	27500.370	3.0	35572.940	2.0
1238.4271	26.00	-4.73	46313.610	2.0	54386.160	1.0
1238.4491	7.00	-2.89	104221.600	1.5	112294.007	.5
1238.4593	27.00	-3.01	46186.410	1.5	54258.750	2.5
1238.4838	7.00	-1.01	104881.320	3.5	112953.500	4.5
1238.4991	22.00	-3.73	33980.639	2.0	42052.720	3.0
1238.5038	7.00	-2.46	96787.650	1.5	104859.700	1.5
1238.5081	22.00	-3.35	37617.868	4.0	45689.890	3.0
1238.5682	7.00	-1.20	104886.070	.5	112957.700	1.5
1238.6101	28.00	-3.72	49032.589	2.0	57103.946	3.0
1238.6834	22.00	-2.89	40844.190	1.0	48915.070	2.0
1238.6834	22.00	-4.48	40844.190	3.0	48915.070	2.0
1238.7140	23.02	-1.82	154265.200	3.5	162335.880	3.5
1238.7148	26.00	-3.91	43499.485	4.0	51570.160	3.0
1238.7924	7.00	-2.10	104810.330	2.5	112880.500	2.5
1238.8370	26.00	-3.78	43079.013	1.0	51148.892	2.0
1238.8385	22.00	-1.84	17423.853	2.0	25493.722	2.0
1238.8568	29.01	-2.65	138003.200	2.0	146072.950	3.0
1238.8568	29.01	-4.07	138003.200	2.0	146072.950	2.0
1238.8982	9.00	-1.29	129381.860	2.5	137451.340	2.5
1238.8996	10.00	-3.72	159379.993	0.0	167449.464	1.0
1238.9247	22.00	-3.57	17369.590	1.0	25438.898	2.0
1238.9412	7.01	-1.33	202170.630	1.0	210239.830	1.0
1239.0154	14.00	-1.87	40991.884	1.0	49060.601	1.0
1239.0979	28.01	-2.73	122140.710	4.5	130208.890	3.5
1239.1102	9.00	-1.68	129381.860	2.5	137449.960	1.5
1239.1102	14.00	-1.93	54528.220	2.0	62596.320	2.0
1239.1932	7.00	-1.14	104810.330	2.5	112877.890	3.5
1239.1992	22.00	-4.19	39214.380	3.0	47281.900	3.0
1239.2300	28.00	-4.86	50458.187	1.0	58525.507	1.0
1239.2304	22.00	-3.71	37622.573	3.0	45689.890	3.0
1239.2576	18.00	-1.39	114641.040	2.0	122708.180	2.0
1239.2607	23.00	-4.94	33966.720	.5	42033.840	1.5
1239.2619	18.00	-3.69	116999.389	2.0	125066.501	2.0
1239.2730	18.01	-.81	186815.960	3.5	194883.000	3.5
1239.2945	18.00	-2.74	114641.040	2.0	122707.940	3.0
1239.3042	26.00	-2.32	39969.830	3.0	48036.667	2.0
1239.3506	28.00	-3.08	42767.900	3.0	50834.435	2.0
1239.3605	6.00	-2.55	81105.030	1.0	89171.500	0.0
1239.4036	28.01	-1.86	122140.710	4.5	130206.900	4.5
1239.4128	22.00	-4.04	37690.320	5.0	45756.450	5.0
1239.4251	29.01	-3.26	128853.300	2.0	136919.350	3.0
1239.4374	22.00	-3.41	36096.470	3.0	44162.440	4.0
1239.4434	7.00	-1.72	107037.069	2.5	115103.000	2.5
1239.4896	27.00	-2.68	44394.470	3.5	52460.100	2.5
1239.5048	28.00	-1.74	44206.185	3.0	52271.716	2.0
1239.5832	14.00	-1.63	39955.053	2.0	48020.074	1.0
1239.5910	6.00	-2.40	81105.030	1.0	89170.000	1.0
1239.6003	28.01	-2.39	122140.710	4.5	130205.620	5.5
1239.6141	26.01	-3.97	92427.220	4.5	100492.040	3.5
1239.7188	28.00	-1.68	42767.900	3.0	50832.039	3.0
1239.7432	28.00	-3.34	51124.800	3.0	59188.780	3.0
1239.7555	28.01	-2.08	122144.990	2.5	130208.890	3.5
1239.7555	17.01	-3.98	153571.000	1.0	161634.900	2.0
1239.7937	26.00	-3.03	43763.938	1.0	51827.590	2.0
1239.8340	26.00	-2.90	50456.790	3.0	58520.180	4.0
1239.8626	28.00	-2.58	42653.723	2.0	50716.927	1.0
1239.8816	28.01	-2.27	122084.790	1.5	130147.870	.5
1239.8892	7.00	-2.99	107037.069	2.5	115100.100	2.5
1239.9601	27.00	-2.86	44201.920	2.5	52264.490	1.5
1239.9969	7.01	-2.08	202714.120	1.0	210776.450	0.0
1240.0277	26.01	-4.50	54063.530	.5	62125.660	1.5
1240.0310	26.00	-4.20	46313.610	2.0	54375.719	2.0
1240.0588	17.00	-2.98	84132.262	2.5	92194.190	1.5
1240.0600	24.00	-2.17	49310.860	3.0	57372.780	4.0
1240.0954	28.01	-.22	129474.270	3.5	137535.960	3.5
1240.1296	7.00	-2.90	106996.032	1.5	115057.500	1.5
1240.1708	18.01	-.38	182951.150	.5	191012.350	1.5
1240.1719	28.00	-2.99	42790.027	2.0	50851.220	1.0
1240.1734	26.00	-4.47	48036.667	2.0	56097.850	3.0
1240.1739	9.00	-1.48	129381.860	2.5	137443.040	2.5
1240.1770	7.00	-3.19	104765.740	4.5	112826.900	3.5
1240.1877	28.01	-4.65	122112.940	.5	130174.030	1.5
1240.2385	14.01	-2.56	111184.720	.5	119245.480	.5
1240.2431	18.01	-.59	181594.050	2.5	189654.780	2.5
1240.2616	28.00	-2.06	42656.317	1.0	50716.927	1.0
1240.2739	7.00	-1.17	104886.070	.5	112946.600	.5
1240.2739	7.00	-2.79	104886.070	.5	112946.600	1.5
1240.2870	18.00	-.29	106087.305	1.0	114147.750	1.0
1240.3600	18.01	-4.07	183914.560	.5	191974.530	1.5
1240.3800	26.01	-4.66	54902.420	1.5	62962.260	1.5
1240.4000	6.00	-2.35	81105.030	1.0	89164.740	1.0
1240.4293	7.00	-2.06	96750.810	1.5	104810.330	2.5
1240.4616	28.01	-3.49	98561.220	2.5	106620.530	3.5
1240.5093	10.03	-.54	634413.000	2.5	642472.000	2.5
1240.5724	24.00	-4.79	29824.750	3.0	37883.340	2.0
1240.5868	22.00	-2.81	33655.853	2.0	41714.350	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1240.5880	26.00	-2.36	43633.491	2.0	51691.980	3.0
1240.6063	7.00	-2.12	104810.330	2.5	112868.700	3.5
1240.6340	26.00	-3.72	45294.830	5.0	53353.020	6.0
1240.7556	13.01	-1.02	139286.800	2.0	147344.200	3.0
1240.7911	6.00	-2.04	81105.030	1.0	89162.200	2.0
1240.8311	28.01	-1.34	129474.270	3.5	137531.180	4.5
1240.8327	15.01	-.65	131353.300	2.0	139410.200	2.0
1240.8635	18.01	-4.89	206132.660	4.5	214189.360	4.5
1240.8769	10.00	-3.12	159534.620	1.0	167591.233	2.0
1240.8773	9.00	-.84	129381.860	2.5	137438.470	3.5
1240.8795	22.00	-4.45	33700.874	4.0	41757.470	3.0
1240.8864	28.00	-2.73	42621.048	3.0	50677.599	3.0
1240.9750	26.00	-3.64	42911.897	5.0	50967.873	6.0
1240.9975	23.00	-3.71	31541.180	3.5	39597.010	4.5
1241.0606	7.00	-2.82	104825.080	2.5	112880.500	2.5
1241.1623	18.01	-4.54	149179.170	3.5	157233.930	3.5
1241.2594	26.01	-4.29	92695.620	2.5	100749.750	2.5
1241.3195	22.00	-4.74	40670.600	2.0	48724.340	2.0
1241.3550	18.01	-4.45	195864.640	2.5	203918.150	1.5
1241.3596	25.00	-3.87	56356.210	3.5	64409.690	3.5
1241.3966	26.00	-4.05	45913.480	3.0	53966.720	2.0
1241.4012	23.02	-3.93	153112.600	3.5	161165.810	2.5
1241.4552	28.01	-4.63	119833.000	5.5	127885.860	4.5
1241.4629	7.00	-4.09	104825.080	2.5	112877.890	3.5
1241.4755	22.00	-6.01	14028.470	2.0	22081.198	2.0
1241.5168	28.01	-.76	129474.270	3.5	137526.730	2.5
1241.5508	28.01	-3.02	122144.990	2.5	130197.230	1.5
1241.5631	6.00	-1.94	80562.850	1.0	88615.010	1.0
1241.5724	28.01	-1.23	122175.420	2.5	130227.520	2.5
1241.5907	26.00	-3.74	47377.909	4.0	55429.890	5.0
1241.6379	28.00	-.97	46522.965	2.0	54574.640	1.0
1241.6922	28.00	-3.34	48715.200	4.0	56766.523	4.0
1241.7911	12.00	-1.66	47841.119	0.0	55891.800	1.0
1241.8268	28.01	-.95	122175.420	2.5	130225.870	3.5
1241.8376	24.00	-1.42	49310.860	3.0	57361.240	3.0
1241.8547	7.00	-2.56	106758.731	.5	114809.000	.5
1241.9456	18.00	-.35	112138.980	2.0	120188.660	2.0
1241.9950	18.00	-1.30	112138.980	2.0	120188.340	1.0
1242.0135	28.01	-1.98	129474.270	3.5	137523.510	3.5
1242.0300	20.00	-3.20	38259.124	3.0	46308.257	2.0
1242.0354	26.00	-4.73	42784.387	6.0	50833.485	5.0
1242.0490	28.01	-2.35	113407.310	2.5	121456.320	1.5
1242.1431	25.00	-3.32	45060.810	3.5	53109.210	2.5
1242.1786	23.00	-4.73	34529.810	4.5	42577.980	5.5
1242.1833	29.01	-2.85	138003.200	2.0	146051.340	2.0
1242.1833	29.01	-3.80	138003.200	2.0	146051.340	1.0
1242.2048	15.00	-3.85	68377.200	3.5	76425.200	2.5
1242.2651	28.01	-2.75	113408.710	1.5	121456.320	1.5
1242.2975	13.01	.51	125866.700	1.0	133914.100	2.0
1242.2996	12.00	-1.18	47844.414	1.0	55891.800	1.0
1242.3140	28.00	-1.25	43258.792	4.0	51306.085	3.0
1242.3592	28.01	-.81	129479.730	1.5	137526.730	2.5
1242.3693	20.00	-1.36	38259.124	3.0	46306.059	3.0
1242.3901	15.01	-2.73	130993.800	3.0	139040.600	4.0
1242.4016	20.00	-4.64	39335.322	1.0	47382.048	1.0
1242.4016	14.00	-2.90	54185.264	1.0	62231.990	2.0
1242.6125	18.00	-4.69	114641.040	2.0	122686.400	2.0
1242.6174	12.00	-1.67	53134.642	2.0	61179.970	2.0
1242.6174	12.00	-3.39	53134.642	2.0	61179.970	3.0
1242.6174	12.00	-.39	53134.642	2.0	61179.970	3.0
1242.6202	18.01	-1.88	186815.960	3.5	194861.270	2.5
1242.6434	18.00	-2.66	114641.040	2.0	122686.200	1.0
1242.6743	28.01	-3.90	129474.270	3.5	137519.230	2.5
1242.7098	27.00	-4.28	44658.030	1.5	52702.760	1.5
1242.7129	23.01	-3.74	44200.970	1.0	52245.680	2.0
1242.7415	20.00	-2.28	38259.124	3.0	46303.649	2.0
1242.7732	6.00	-2.85	81105.030	1.0	89149.350	1.0
1242.7839	29.01	-3.61	138028.700	1.0	146072.950	2.0
1242.7994	28.01	-4.17	106007.890	2.5	114052.040	3.5
1242.8102	28.01	-4.52	91800.050	4.5	99844.130	3.5
1242.8380	28.01	-1.36	122140.710	4.5	130184.610	5.5
1242.8721	18.01	-1.34	206623.800	3.5	214667.480	2.5
1242.8782	27.00	-4.50	47225.110	3.5	55268.750	3.5
1242.8812	7.00	-3.10	104825.080	2.5	112868.700	3.5
1242.9755	29.01	-2.68	138064.320	5.0	146107.330	5.0
1242.9755	29.01	-4.41	138064.320	5.0	146107.330	4.0
1243.0374	17.00	-1.23	83130.900	1.5	91173.510	1.5
1243.1255	23.01	-4.42	44657.990	2.0	52700.030	2.0
1243.1366	20.00	-4.41	39340.080	2.0	47382.048	1.0
1243.1471	6.00	-2.78	80562.850	1.0	88604.750	2.0
1243.2090	13.01	-1.93	140091.200	1.0	148132.700	2.0
1243.2151	28.01	-1.74	99040.750	1.5	107082.210	2.5
1243.2229	19.00	-.46	12985.170	.5	21026.580	.5
1243.2522	23.00	-4.09	31200.120	1.5	39241.340	2.5
1243.2667	14.00	-3.86	54185.264	1.0	62226.390	1.0
1243.2770	26.00	-2.88	45833.240	4.0	53874.300	5.0
1243.3422	12.00	-.96	47851.162	2.0	55891.800	1.0
1243.3450	26.01	-4.01	54904.500	3.5	62945.120	3.5
1243.3465	17.00	-2.18	88272.720	.5	96313.330	1.5
1243.4347	29.01	-2.36	108335.430	2.0	116375.470	3.0
1243.4533	23.00	-6.93	13801.530	1.5	21841.450	2.5
1243.4718	8.02	-.20	373046.200	0.0	381086.000	1.0
1243.4734	24.00	-2.18	49310.860	3.0	57350.650	2.0
1243.4749	28.01	-3.43	104646.520	3.5	112686.300	2.5
1243.5182	28.01	-1.80	129479.730	1.5	137519.230	2.5
1243.5337	28.01	-1.83	122144.990	2.5	130184.390	2.5
1243.5681	10.00	-2.41	162517.872	1.0	170557.050	1.0
1243.5801	29.01	-2.22	138064.320	5.0	146103.420	6.0
1243.5801	29.01	-4.03	138064.320	5.0	146103.420	5.0
1243.5973	28.00	-4.26	48671.900	3.0	56710.889	2.0
1243.6011	26.00	-4.23	46410.366	1.0	54449.330	1.0
1243.6450	20.02	-4.20	363021.270	2.0	371059.950	3.0
1243.7070	22.00	-4.41	39149.260	2.0	47187.540	2.0
1243.7657	17.01	-4.88	153633.100	1.0	161671.000	0.0
1243.8075	6.00	-2.69	81105.030	1.0	89142.660	2.0
1243.8385	7.00	-2.29	96787.650	1.5	104825.080	2.5
1243.8465	7.00	-3.23	107445.622	1.5	115483.000	.5
1243.8465	7.00	-2.53	107445.622	1.5	115483.000	1.5
1243.8465	7.00	-2.40	107445.622	1.5	115483.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1243.8571	7.01	-1.81	202714.120	1.0	210751.430	1.0
1243.9305	18.00	.01	104102.144	1.0	112138.980	2.0
1243.9515	23.00	-4.39	34128.040	3.5	42164.740	3.5
1243.9561	27.00	-3.42	47128.960	2.5	55165.630	2.5
1243.9794	7.00	-3.18	106980.480	.5	115017.000	.5
1243.9794	7.00	-3.71	106980.480	.5	115017.000	1.5
1243.9963	14.00	-3.00	40991.884	1.0	49028.294	0.0
1244.0134	29.01	-4.19	130945.000	2.0	138981.300	2.0
1244.0319	8.01	-2.76	232480.100	.5	240516.280	1.5
1244.0830	18.01	-4.93	206148.940	3.5	214184.790	3.5
1244.0892	18.01	-2.32	206631.670	2.5	214667.480	2.5
1244.1636	18.02	-4.07	196613.910	2.0	204649.240	2.0
1244.2255	28.01	-3.49	122112.940	.5	130147.870	.5
1244.2859	28.01	-3.91	114052.040	3.5	122086.580	3.5
1244.3110	7.00	-2.97	107445.622	1.5	115480.000	.5
1244.3110	7.00	-3.36	107445.622	1.5	115480.000	1.5
1244.3355	22.00	-3.97	33680.130	3.0	41714.350	2.0
1244.3503	22.00	-3.58	29818.310	3.0	37852.434	4.0
1244.4222	29.01	-2.77	138073.670	4.0	146107.330	4.0
1244.4222	29.01	-4.37	138073.670	4.0	146107.330	5.0
1244.4516	28.01	-3.50	122175.420	2.5	130208.690	3.5
1244.4981	38.01	.02	47736.530	0.0	55771.898	0.0
1244.5264	20.00	-1.67	40537.893	3.0	48570.880	2.0
1244.5264	20.00	-4.57	40537.893	3.0	48570.880	3.0
1244.5678	28.01	-1.25	129503.240	4.5	137535.960	3.5
1244.5880	28.01	-.44	129503.240	4.5	137535.830	5.5
1244.6358	26.00	-3.13	47092.693	3.0	55124.974	3.0
1244.6406	27.00	-4.43	46872.740	3.5	54904.990	2.5
1244.6794	27.00	-4.44	45904.680	1.5	53936.680	2.5
1244.6847	18.00	-4.65	116660.054	1.0	124692.020	2.0
1244.7569	26.01	-1.45	79439.300	3.5	87470.800	4.5
1244.8297	22.00	-3.68	36132.210	4.0	44163.240	5.0
1244.8773	26.00	-2.99	44183.607	2.0	52214.330	1.0
1244.8866	7.00	-2.57	106778.337	1.5	114809.000	.5
1244.9537	22.00	-4.89	36132.210	4.0	44162.440	4.0
1245.0219	29.01	-3.77	138064.320	5.0	146094.110	4.0
1245.0282	29.01	-2.30	138073.670	4.0	146103.420	5.0
1245.0457	17.00	-2.20	82918.893	2.5	90948.530	1.5
1245.0622	7.00	-3.58	107588.469	.5	115618.000	1.5
1245.1025	9.00	-1.41	129772.830	2.5	137802.100	2.5
1245.1382	28.01	-2.06	122144.990	2.5	130174.030	1.5
1245.2251	22.00	-3.95	34078.580	3.0	42107.060	4.0
1245.3089	28.01	-.61	129503.240	4.5	137531.180	4.5
1245.4702	14.00	-4.60	54205.090	2.0	62231.990	2.0
1245.5354	28.01	-4.86	129988.050	2.5	138014.530	2.5
1245.6184	18.00	-.16	105617.315	2.0	113643.260	1.0
1245.6626	23.00	-.94	29296.430	2.5	37322.090	3.5
1245.6675	20.00	-3.58	40537.893	3.0	48563.522	2.0
1245.7133	12.00	-2.96	51872.526	1.0	59897.860	0.0
1245.7133	12.00	-2.48	51872.526	1.0	59897.860	1.0
1245.7133	12.00	-2.26	51872.526	1.0	59897.860	2.0
1245.7511	28.01	-4.36	130815.910	3.5	138841.000	3.5
1245.8070	22.00	-3.40	36208.920	4.0	44233.650	3.0
1245.8187	14.00	-1.86	51612.012	0.0	59636.667	1.0
1245.8210	23.00	-1.40	29202.800	1.5	37227.440	2.5
1245.8986	22.00	-2.80	36351.430	5.0	44375.570	5.0
1245.9138	26.00	-4.45	46137.140	3.0	54161.182	3.0
1245.9356	22.00	-4.98	39115.958	4.0	47139.860	4.0
1245.9390	10.00	-.82	150772.112	1.0	158795.992	1.0
1245.9396	28.00	-2.44	42653.723	2.0	50677.599	3.0
1245.9467	27.00	-4.46	46872.740	3.5	54896.570	3.5
1245.9498	23.00	-4.86	34529.810	4.5	42553.620	4.5
1246.0197	9.01	-4.74	270373.760	1.0	278397.120	1.0
1246.0679	27.00	-3.92	43537.710	1.5	51560.760	2.5
1246.1207	27.00	-3.79	46260.020	1.5	54282.730	2.5
1246.1254	7.00	.50	96787.650	1.5	104810.330	2.5
1246.1269	27.00	-4.73	46329.630	2.5	54352.300	3.5
1246.1315	29.01	-3.14	138028.700	1.0	146051.340	1.0
1246.1315	29.01	-3.57	138028.700	1.0	146051.340	2.0
1246.1409	14.01	-2.12	118523.120	1.5	126545.700	.5
1246.1424	23.00	-.67	29418.170	3.5	37440.740	4.5
1246.1906	6.00	-4.51	79318.780	1.0	87341.040	0.0
1246.2077	27.00	-3.94	45766.630	3.5	53788.780	4.5
1246.2605	28.01	-1.98	122175.420	2.5	130197.230	1.5
1246.2698	23.01	-4.58	44159.430	2.0	52181.180	1.0
1246.2775	17.01	-3.85	153633.100	1.0	161654.800	1.0
1246.3149	26.00	-3.97	50803.350	2.0	58824.810	2.0
1246.3180	25.00	-1.37	48168.010	4.5	56189.450	4.5
1246.3397	14.00	-1.70	54205.090	2.0	62226.390	1.0
1246.3553	29.01	.64	138402.200	3.0	146423.400	4.0
1246.3840	8.00	-1.94	97420.642	4.0	105441.657	3.0
1246.3840	8.00	-.76	97420.642	4.0	105441.657	4.0
1246.3840	8.00	.10	97420.642	4.0	105441.657	5.0
1246.3851	8.00	-3.54	97420.728	3.0	105441.736	2.0
1246.3851	8.00	-1.99	97420.728	3.0	105441.736	3.0
1246.3851	8.00	-.93	97420.728	3.0	105441.736	4.0
1246.3913	7.00	-2.57	106996.032	1.5	115017.000	.5
1246.3913	7.00	-3.61	106996.032	1.5	115017.000	1.5
1246.3926	22.00	-3.61	37690.320	5.0	45711.280	4.0
1246.3974	8.00	-1.69	97420.728	3.0	105441.657	2.0
1246.3974	8.00	-.67	97420.728	3.0	105441.657	3.0
1246.3974	8.00	-.12	97420.728	3.0	105441.657	4.0
1246.4042	8.00	-2.32	97420.851	2.0	105441.736	2.0
1246.4042	8.00	-1.42	97420.851	2.0	105441.736	3.0
1246.4079	10.00	-.79	161509.630	0.0	169530.491	1.0
1246.4165	8.00	-1.66	97420.851	2.0	105441.657	1.0
1246.4165	8.00	-.66	97420.851	2.0	105441.657	2.0
1246.4165	8.00	-.28	97420.851	2.0	105441.657	3.0
1246.4174	7.00	-2.79	104859.700	1.5	112880.500	2.5
1246.4202	8.00	-2.08	97420.954	1.0	105441.736	2.0
1246.4325	8.00	-.80	97420.954	1.0	105441.657	1.0
1246.4325	8.00	-.50	97420.954	1.0	105441.657	2.0
1246.4401	8.00	-.79	97421.003	0.0	105441.657	1.0
1246.4734	29.01	-3.87	138073.670	4.0	146094.110	3.0
1246.4748	7.00	-4.07	107037.069	2.5	115057.500	1.5
1246.4802	26.00	-3.58	42859.756	2.0	50880.152	1.0
1246.4998	28.01	-1.27	129503.240	4.5	137523.510	3.5
1246.5278	18.01	-1.97	150147.620	2.5	158167.710	1.5
1246.5355	25.02	-1.61	208650.540	3.5	216670.580	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1246.5589	9.00	-2.33	129772.830	2.5	137792.720	2.5
1246.6754	24.00	-3.50	47189.870	4.0	55209.010	4.0
1246.6785	24.00	-2.35	46967.700	2.0	54986.820	3.0
1246.7190	25.00	-2.54	55405.140	2.5	63424.000	3.5
1246.9615	7.00	.60	96864.020	2.5	104881.320	3.5
1247.0004	25.00	-4.93	37737.220	3.5	45754.270	3.5
1247.0269	14.00	-2.34	54528.220	2.0	62545.100	1.0
1247.0642	22.00	-4.50	35959.070	1.0	43975.710	1.0
1247.0751	7.00	-2.37	104810.330	2.5	112826.900	2.5
1247.0751	7.00	-.42	104810.330	2.5	112826.900	3.5
1247.1264	9.00	-.69	129772.830	2.5	137789.070	3.5
1247.1389	28.01	-3.49	119315.440	2.5	127331.600	2.5
1247.1467	29.01	-3.43	117231.690	1.0	125247.800	2.0
1247.2213	29.01	-1.08	136799.300	2.0	144814.930	3.0
1247.2385	10.01	-2.44	313419.040	1.5	321434.560	2.5
1247.2696	22.00	-3.04	40844.190	1.0	48859.510	1.0
1247.3349	15.01	-1.48	131025.700	4.0	139040.600	4.0
1247.3396	9.00	-2.39	129772.830	2.5	137787.700	1.5
1247.3435	10.00	-1.73	162517.872	1.0	170532.717	2.0
1247.3533	10.00	-1.86	161524.174	1.0	169538.956	2.0
1247.3556	9.00	-2.29	117622.923	2.5	125637.690	2.5
1247.3645	28.01	-4.97	113177.610	3.5	121192.320	3.5
1247.4018	10.01	-3.31	313420.090	2.5	321434.560	2.5
1247.4626	14.02	-2.38	249817.320	3.0	257831.400	3.0
1247.4626	14.02	-4.18	249817.320	3.0	257831.400	4.0
1247.4626	14.02	-1.32	249817.320	3.0	257831.400	2.0
1247.4781	27.00	-3.61	45688.150	2.5	53702.130	3.5
1247.4813	56.01	.16	50011.220	0.0	58027.372	0.0
1247.5171	24.00	-4.60	36577.730	4.0	44591.460	5.0
1247.5451	14.02	-1.46	249817.850	4.0	257831.400	3.0
1247.5451	14.02	-2.63	249817.850	4.0	257831.400	4.0
1247.5529	29.01	-.85	138402.200	3.0	146415.700	2.0
1247.5544	28.01	-1.96	94729.250	2.5	102742.740	1.5
1247.5591	14.02	-2.73	249817.940	4.0	257831.400	4.0
1247.5591	14.02	-1.56	249817.940	4.0	257831.400	3.0
1247.5684	24.00	-4.46	44050.870	4.0	52064.270	4.0
1247.5709	26.00	-3.23	45726.104	5.0	53739.488	5.0
1247.6042	27.00	-4.72	47393.930	2.5	55407.100	1.5
1247.6260	23.00	-6.18	8715.720	3.5	16728.750	4.5
1247.6691	17.00	-2.44	83894.037	3.5	91906.790	2.5
1247.7132	14.02	-1.09	249818.930	5.0	257831.400	4.0
1247.7304	23.00	-3.45	31228.980	2.5	39241.340	2.5
1247.8176	23.00	-2.45	30094.520	1.5	38106.320	2.5
1247.8892	24.00	-4.90	37244.170	4.0	45255.510	3.0
1247.9765	25.01	-4.32	30795.750	4.0	38806.530	4.0
1248.2367	6.00	-1.72	81769.790	2.0	89778.900	3.0
1248.2382	15.00	-3.32	68183.200	1.5	76192.300	1.5
1248.2429	26.00	-3.41	49804.900	3.0	57813.970	3.0
1248.2463	26.00	-3.85	43210.011	2.0	51219.059	3.0
1248.2492	10.01	-3.43	313419.040	1.5	321428.070	2.5
1248.2585	28.01	-2.48	122175.420	2.5	130184.390	2.5
1248.2741	9.02	-2.89	432060.640	1.5	440069.510	1.5
1248.2975	26.01	-4.92	72169.150	1.5	80177.870	1.5
1248.3270	7.00	-2.31	107588.469	.5	115597.000	1.5
1248.3443	17.00	-2.13	92194.190	1.5	100202.610	1.5
1248.3481	22.00	-4.90	31205.985	3.0	39214.380	3.0
1248.3848	17.00	-3.72	92194.190	1.5	100202.350	.5
1248.4128	10.01	-3.05	313420.090	2.5	321428.070	2.5
1248.4143	10.01	-2.42	313420.090	2.5	321428.060	3.5
1248.4146	7.00	-1.82	106996.032	1.5	115004.000	2.5
1248.4307	17.00	-.13	84132.262	2.5	92140.127	1.5
1248.4485	22.00	-4.15	33980.639	2.0	41988.390	3.0
1248.4625	22.00	-3.15	12118.394	4.0	20126.055	3.0
1248.4752	28.01	-4.98	113172.960	4.5	121180.540	4.5
1248.4845	7.00	-2.02	106980.480	.5	114988.000	.5
1248.4845	7.00	-1.94	106980.480	.5	114988.000	1.5
1248.5017	18.01	-3.11	191974.530	1.5	199981.940	1.5
1248.5750	24.00	-3.48	46967.700	2.0	54974.640	2.0
1248.6561	27.00	-2.99	45688.150	2.5	53694.570	3.5
1248.6721	10.00	-.96	161524.174	1.0	169530.491	1.0
1248.6728	10.00	-.45	161524.174	1.0	169530.487	2.0
1248.6998	18.01	-.39	186815.960	3.5	194822.100	3.5
1248.7169	29.01	-2.01	133727.870	2.0	141733.900	2.0
1248.7372	13.01	-2.45	140091.200	1.0	148097.100	0.0
1248.7612	18.00	.10	105462.804	3.0	113468.550	2.0
1248.7933	27.00	-2.71	43555.220	3.5	51560.760	2.5
1248.8960	14.00	-2.08	54313.818	1.0	62318.700	0.0
1248.9768	9.00	-4.08	117872.916	1.5	125877.280	1.5
1249.0164	9.00	-2.86	129937.330	1.5	137941.440	2.5
1249.1257	6.00	-4.19	81769.790	2.0	89773.200	3.0
1249.1662	28.01	-2.99	107082.210	2.5	115085.360	3.5
1249.1662	10.01	-2.75	313420.090	2.5	321423.240	3.5
1249.1927	14.01	-2.90	118523.120	1.5	126526.100	1.5
1249.1990	28.01	-3.60	122812.970	3.5	130815.910	3.5
1249.2006	28.01	-4.55	113177.610	3.5	121180.540	4.5
1249.2037	14.01	-1.95	118523.190	2.5	126526.100	1.5
1249.3021	10.01	-4.52	313432.280	3.5	321434.560	2.5
1249.3311	26.00	-3.82	42859.756	2.0	50861.850	3.0
1249.3333	24.00	-2.38	49370.700	3.0	57372.780	4.0
1249.3739	7.00	-1.55	104825.080	2.5	112826.900	2.5
1249.3739	7.00	-2.16	104825.080	2.5	112826.900	3.5
1249.3770	17.01	-3.21	153633.100	1.0	161634.900	2.0
1249.3807	26.00	-3.90	45964.944	2.0	53966.720	2.0
1249.3917	26.00	-3.37	42532.729	3.0	50534.435	3.0
1249.4754	21.00	-2.37	17012.980	2.5	25014.150	2.5
1249.5097	27.00	-3.27	43199.650	2.5	51200.600	1.5
1249.5191	24.00	-3.00	27500.370	3.0	35501.260	3.0
1249.5441	23.00	-3.58	31398.090	2.5	39398.820	3.5
1249.6237	14.02	.50	201599.480	3.0	209599.700	4.0
1249.6690	27.00	-3.64	43199.650	2.5	51199.580	3.5
1249.7050	14.02	-1.29	249937.290	5.0	257936.990	5.0
1249.7050	14.02	-1.40	249937.290	5.0	257936.990	5.0
1249.7050	14.02	-3.19	249937.290	6.0	257936.990	5.0
1249.7050	14.02	.51	249937.290	5.0	257936.990	6.0
1249.7050	14.02	-2.95	249937.290	5.0	257936.990	6.0
1249.7050	14.02	-4.15	249937.290	5.0	257936.990	6.0
1249.7050	14.02	.51	249937.290	5.0	257936.990	6.0
1249.7050	14.02	-1.30	249937.290	6.0	257936.990	6.0
1249.7050	14.02	-1.39	249937.290	6.0	257936.990	6.0
1249.7050	14.02	.58	249937.290	6.0	257936.990	7.0
1249.7050	14.02	.43	249937.290	4.0	257936.990	5.0
1249.7284	10.01	-4.33	313431.490	4.5	321431.040	5.5
1249.7347	25.00	-4.50	57305.620	3.5	65305.130	3.5
1249.7456	27.00	-1.29	48546.070	1.5	56545.510	2.5
1249.7862	7.00	-2.27	104881.320	3.5	112880.500	2.5
1249.8456	13.01	-2.05	140091.200	1.0	148090.000	1.0
1249.8456	13.01	-3.14	140091.200	2.0	148090.000	1.0
1249.8456	13.01	-1.58	140091.200	1.0	148090.000	2.0
1249.8456	13.01	-1.97	140091.200	2.0	148090.000	2.0
1249.8456	13.01	-1.22	140091.200	2.0	148090.000	3.0
1249.8456	13.01	-1.84	140091.200	0.0	148090.000	1.0
1249.8565	27.00	-3.55	46260.020	1.5	54258.750	2.5
1249.8753	28.01	-2.36	122175.420	2.5	130174.030	1.5
1249.9409	27.00	-2.22	45105.590	3.5	53103.780	3.5
1249.9784	8.01	.21	240516.280	1.5	248514.230	1.5
1250.1863	10.01	-.51	282375.330	1.5	290371.950	2.5
1250.1916	22.00	-4.78	41039.874	5.0	49036.460	4.0
1250.1927	26.00	-2.86	43633.491	2.0	51630.070	2.0
1250.1942	7.00	-1.40	104881.320	3.5	112877.890	3.5
1250.1957	7.00	-.94	104881.320	3.5	112877.880	4.5
1250.2223	28.01	-4.72	119889.470	5.5	127885.860	4.5
1250.2629	17.00	-1.33	83130.900	1.5	91127.030	2.5
1250.2926	28.01	-4.39	113321.950	4.5	121317.890	3.5
1250.3176	10.01	-3.65	313432.280	3.5	321428.060	3.5
1250.3223	6.00	-2.37	80562.850	1.0	88558.600	1.0
1250.3333	7.00	-3.42	96864.020	2.5	104859.700	1.5
1250.4005	28.01	-4.69	114052.040	3.5	122047.290	3.5
1250.4647	24.00	-2.74	46677.060	2.0	54671.900	1.0
1250.5570	9.01	-4.52	270373.760	1.0	278368.010	2.0
1250.5823	18.00	-2.65	114641.040	2.0	122635.128	2.0
1250.5929	23.00	-5.95	8578.520	2.5	16572.540	3.5
1250.6070	25.00	-3.22	45130.160	4.5	53124.090	3.5
1250.6403	7.00	-1.95	107628.283	1.5	115622.000	2.5
1250.6665	24.00	-3.34	46678.350	1.0	54671.900	1.0
1250.7109	28.00	-3.70	43464.019	1.0	51457.285	0.0
1250.7118	28.00	-3.27	51124.800	3.0	59118.060	2.0
1250.9012	18.01	-.45	186890.950	2.5	194883.000	3.5
1250.9141	7.00	-3.67	106996.032	1.5	114988.000	.5
1250.9141	7.00	-2.68	106996.032	1.5	114988.000	1.5
1250.9141	7.00	-1.94	106996.032	1.5	114988.000	2.5
1250.9482	10.01	-4.31	313431.490	4.5	321423.240	3.5
1250.9498	10.01	-4.18	313431.490	4.5	321423.230	4.5
1250.9872	18.01	-2.65	182951.150	.5	190942.650	.5
1250.9966	14.00	-1.39	54528.220	2.0	62519.660	2.0
1251.0045	10.01	-2.32	313431.490	4.5	321422.880	5.5
1251.0092	10.01	-3.10	313431.490	4.5	321422.850	4.5
1251.0191	28.00	-1.75	44206.185	3.0	52197.482	3.0
1251.0286	17.00	-1.52	92194.190	1.5	100185.426	2.5
1251.0302	26.00	-4.15	46888.494	2.0	54879.720	2.0
1251.0432	26.00	-1.75	39969.830	3.0	47960.973	4.0
1251.0436	7.01	-1.66	202714.120	1.0	210705.260	2.0
1251.0608	17.00	-2.51	92194.190	1.5	100185.220	1.5
1251.0718	10.01	-3.40	313432.280	3.5	321423.240	3.5
1251.0734	10.01	-2.54	313432.280	3.5	321423.230	4.5
1251.0962	26.00	-3.97	36686.159	4.0	44676.963	4.0
1251.1277	28.00	-4.17	50458.187	1.0	58448.790	0.0
1251.1329	10.01	-2.98	313432.280	3.5	321422.850	4.5
1251.1376	24.00	-1.73	49370.700	3.0	57361.240	3.0
1251.1438	15.00	-1.07	69852.800	.5	77843.300	1.5
1251.1689	6.00	-2.17	69689.480	1.0	77679.820	2.0
1251.2204	26.00	-2.38	40231.312	2.0	48221.323	1.0
1251.2331	20.01	-.82	81498.000	.5	89487.930	1.5
1251.2665	7.00	-3.55	107628.283	1.5	115618.000	1.5
1251.2665	7.00	-1.82	107628.283	1.5	115618.000	2.5
1251.2879	8.01	-2.05	232526.700	1.5	240516.280	1.5
1251.3919	26.00	-3.61	47136.058	2.0	55124.974	3.0
1251.4085	23.00	-3.90	34374.810	3.5	42363.620	3.5
1251.4117	21.00	-3.42	17025.360	1.5	25014.150	2.5
1251.4790	28.01	-2.10	122812.970	3.5	130801.330	4.5
1251.5056	27.00	-3.63	46872.740	3.5	54860.930	4.5
1251.5663	22.00	-3.98	39152.057	5.0	47139.860	4.0
1251.6326	7.00	-4.50	104881.320	3.5	112868.700	3.5
1251.6482	29.01	-3.27	128778.100	4.0	136765.380	4.0
1251.6843	29.01	-2.09	110084.290	1.0	118071.340	1.0
1251.7047	13.02	-1.25	209263.250	3.5	217250.170	3.5
1251.7047	13.02	.29	209263.250	3.5	217250.170	4.5
1251.7047	13.02	.18	209263.250	2.5	217250.170	3.5
1251.7070	26.00	-4.07	45294.830	5.0	53281.735	5.0
1251.7454	18.01	-3.88	201351.550	2.5	209338.210	3.5
1251.7877	28.01	-3.20	109675.720	.5	117662.110	1.5
1251.8117	28.00	-2.37	42767.900	3.0	50754.137	2.0
1251.8159	6.00	-2.55	80562.850	1.0	88549.060	1.0
1251.8222	7.01	-1.74	202765.260	2.0	210751.430	1.0
1251.8379	22.00	-3.88	38544.380	3.0	46530.450	4.0
1251.8379	6.00	-2.89	81105.030	1.0	89091.100	1.0
1251.9039	26.00	-2.90	43633.491	2.0	51619.140	3.0
1251.9210	23.00	-2.92	30120.780	2.5	38106.320	2.5
1252.0704	26.00	-4.32	40052.080	2.0	48036.667	2.0
1252.1279	18.01	-.52	186815.960	3.5	194800.180	4.5
1252.2095	19.00	-.15	13042.880	1.5	21026.580	.5
1252.2613	22.00	-3.39	36096.470	3.0	44079.840	2.0
1252.4197	23.00	-2.78	30021.570	.5	38003.930	1.5
1252.4761	13.01	-1.57	139286.800	2.0	147268.800	1.0
1252.5504	22.00	-4.00	18911.399	2.0	26892.926	3.0
1252.5750	14.00	-2.63	54245.020	0.0	62226.390	1.0
1252.6127	19.00	-1.36	21026.580	.5	29007.710	1.5
1252.6472	6.00	-4.01	80562.850	1.0	88543.760	0.0
1252.6567	24.00	-4.97	44050.870	4.0	52031.720	3.0
1252.6802	13.01	-.84	142362.800	2.0	150343.500	2.0
1252.6802	13.01	-.11	142362.800	1.0	150343.500	2.0
1252.6802	13.01	-.30	142362.800	2.0	150343.500	3.0
1252.6802	13.01	-2.38	142362.800	3.0	150343.500	2.0
1252.6802	13.01	-1.21	142362.800	3.0	150343.500	3.0
1252.6802	13.01	.22	142362.800	3.0	150343.500	4.0
1252.7305	6.00	-2.69	81105.030	1.0	89085.410	1.0
1252.7571	24.00	-3.01	47228.800	5.0	55209.010	4.0
1252.7571	23.01	-4.54	44200.970	1.0	52181.180	1.0
1252.7797	22.00	-2.40	37852.434	4.0	45832.500	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1252.7964	27.00	-3.39	44480.140	2.5	52460.100	2.5
1252.7979	24.00	-2.32	49370.700	3.0	57350.650	2.0
1252.8000	2.00	-.89	183237.000	0.0	191219.120	0.0
1252.8010	7.00	-4.65	107037.069	2.5	115017.000	1.5
1252.8389	22.00	-3.43	34204.971	4.0	42184.660	4.0
1252.8607	22.00	-2.22	38670.710	4.0	46650.260	3.0
1252.8655	28.01	-1.82	111120.540	1.5	119100.060	1.5
1252.9974	27.00	-3.48	44183.340	4.5	52162.020	3.5
1253.0178	6.00	-2.86	80562.850	1.0	88541.400	2.0
1253.0272	28.01	-1.84	113407.310	2.5	121385.800	1.5
1253.0963	9.00	-3.18	129484.660	1.5	137462.710	1.5
1253.1128	22.00	-4.84	37743.933	3.0	45721.878	4.0
1253.1180	26.00	-4.47	46901.808	1.0	54879.720	2.0
1253.1244	22.00	-3.61	33980.639	2.0	41958.510	2.0
1253.1785	22.00	-4.47	18825.890	1.0	26803.417	2.0
1253.2471	28.01	-2.37	113408.710	1.5	121385.800	1.5
1253.2817	24.00	-2.07	21847.880	2.0	29824.750	3.0
1253.3194	27.00	-1.76	41101.800	.5	49078.430	1.5
1253.3241	21.00	-4.16	37039.770	2.5	45016.370	3.5
1253.3256	6.00	-2.89	81105.030	1.0	89081.620	0.0
1253.3256	18.01	-.44	202149.110	2.5	210125.700	2.5
1253.3257	27.00	-4.74	44658.030	1.5	52634.620	.5
1253.3429	10.01	-4.91	313457.540	2.5	321434.020	1.5
1253.4027	15.00	-.75	72618.000	.5	80594.100	1.5
1253.4407	10.00	-2.57	164285.882	0.0	172261.740	1.0
1253.4467	17.00	-2.03	92194.190	1.5	100170.010	2.5
1253.4483	14.02	-1.47	249966.490	6.0	257942.300	6.0
1253.4483	14.02	-1.56	249966.490	6.0	257942.300	6.0
1253.4483	14.02	.47	249966.490	6.0	257942.300	7.0
1253.4483	14.02	-4.59	249966.490	6.0	257942.300	7.0
1253.4483	14.02	-3.29	249966.490	6.0	257942.300	7.0
1253.4483	14.02	.47	249966.490	6.0	257942.300	7.0
1253.4483	14.02	-3.50	249966.490	7.0	257942.300	6.0
1253.4483	14.02	-1.48	249966.490	7.0	257942.300	7.0
1253.4483	14.02	-1.55	249966.490	7.0	257942.300	7.0
1253.4483	14.02	.53	249966.490	7.0	257942.300	8.0
1253.4483	14.02	.40	249966.490	5.0	257942.300	6.0
1253.4842	28.00	-4.16	48735.308	2.0	56710.889	2.0
1253.4941	22.00	-6.91	14105.680	3.0	22081.198	2.0
1253.5205	21.00	-4.21	36934.150	1.5	44909.500	2.5
1253.5410	12.01	-1.89	108900.030	2.5	116875.250	2.5
1253.5410	12.01	-.59	108900.030	2.5	116875.250	3.5
1253.5661	12.01	-.75	108900.190	1.5	116875.250	2.5
1253.5959	6.00	-2.16	81105.030	1.0	89079.900	2.0
1253.6686	14.00	-1.58	54257.582	3.0	62231.990	2.0
1253.7107	22.00	-3.72	34078.580	3.0	42052.720	3.0
1253.7123	18.01	-.89	182222.030	1.5	190196.160	.5
1253.7878	23.00	-5.92	8476.200	1.5	16449.850	2.5
1253.8334	7.00	-2.41	104984.340	.5	112957.700	1.5
1253.8601	23.00	-3.11	31268.150	3.5	39241.340	2.5
1253.8711	27.00	-2.94	44183.340	4.5	52156.460	4.5
1253.9060	22.00	-4.34	33114.412	2.0	41087.310	3.0
1253.9199	9.01	-.36	269548.970	3.0	277521.780	2.0
1253.9340	28.01	-2.23	113321.950	4.5	121294.670	4.5
1253.9387	19.00	-1.69	21026.580	.5	28999.270	.5
1253.9486	14.00	-4.85	49399.670	1.0	57372.297	2.0
1253.9513	27.00	-2.08	43295.320	4.5	51267.930	4.5
1253.9831	12.00	-1.73	53134.642	2.0	61107.050	2.0
1253.9831	12.00	-3.37	53134.642	2.0	61107.050	3.0
1253.9831	12.00	-.46	53134.642	2.0	61107.050	3.0
1254.0268	20.01	-.56	81517.000	1.5	89489.130	2.5
1254.0787	28.01	-4.91	129782.070	3.5	137753.870	4.5
1254.0819	24.00	-3.59	46846.770	3.0	54818.550	2.0
1254.0961	27.00	-2.86	46454.950	1.5	54426.640	1.5
1254.1181	27.00	-3.61	45540.280	5.5	53511.830	5.5
1254.2157	20.01	-1.52	81517.000	1.5	89487.930	1.5
1254.2408	10.01	-2.13	294086.490	1.5	302057.260	.5
1254.2974	16.01	-2.32	156148.190	.5	164118.600	.5
1254.3116	18.01	-2.18	186890.950	2.5	194861.270	2.5
1254.4375	7.00	-3.50	106980.480	.5	114950.000	.5
1254.4375	7.00	-3.13	106980.480	.5	114950.000	1.5
1254.4501	18.02	-4.47	196679.800	3.0	204649.240	2.0
1254.4533	28.01	-4.72	121325.090	2.5	129294.510	2.5
1254.4942	6.00	-4.53	69710.660	2.0	77679.820	2.0
1254.5057	26.00	-4.22	43079.013	1.0	51048.100	1.0
1254.5162	6.00	-2.99	78529.620	3.0	86498.640	2.0
1254.5304	18.01	-1.03	191169.520	1.5	199138.450	1.5
1254.5414	28.01	-4.24	105439.850	1.5	113408.710	1.5
1254.5462	9.01	.44	269548.970	3.0	277517.800	3.0
1254.5635	18.00	-4.51	114641.040	2.0	122609.760	1.0
1254.5640	7.00	-2.28	107628.283	1.5	115597.000	1.5
1254.5970	26.00	-3.63	32873.623	4.0	40842.130	3.0
1254.7004	24.00	-3.13	46678.350	1.0	54646.200	0.0
1254.7067	24.00	-1.78	21856.940	3.0	29824.750	3.0
1254.7366	13.02	-1.28	209284.530	4.5	217252.150	4.5
1254.7366	13.02	.46	209284.530	4.5	217252.150	5.5
1254.7366	13.02	.37	209284.530	3.5	217252.150	4.5
1254.7619	28.01	-4.47	105439.850	1.5	113407.310	2.5
1254.7797	22.00	-4.52	37743.933	3.0	45711.280	4.0
1254.8028	7.00	-1.52	104859.700	1.5	112826.900	2.5
1254.8452	7.00	-2.21	107037.069	2.5	115004.000	2.5
1254.8452	7.00	-2.01	107037.069	2.5	115004.000	3.5
1254.8831	22.00	-.88	36414.470	3.0	44381.160	4.0
1254.8847	9.00	-1.40	129484.660	1.5	137451.340	2.5
1254.9374	18.00	-4.36	117183.654	2.0	125150.000	3.0
1254.9493	6.00	-1.01	71352.510	0.0	79318.780	1.0
1255.0722	27.00	-1.43	45971.190	3.5	53936.680	2.5
1255.0938	26.00	-3.50	46410.366	1.0	54375.719	2.0
1255.1021	9.00	-1.23	129484.660	1.5	137449.960	1.5
1255.1336	27.00	-4.60	47612.180	1.5	55577.280	1.5
1255.1856	26.01	-3.63	72213.100	.5	80177.870	1.5
1255.2014	10.01	-4.89	313469.890	3.5	321434.560	2.5
1255.2850	10.01	-3.75	313470.420	2.5	321434.560	2.5
1255.3449	18.01	-1.01	196621.880	3.5	204585.640	2.5
1255.3921	25.00	-2.69	48225.990	3.5	56189.450	4.5
1255.4079	26.00	-4.22	49850.610	3.0	57813.970	3.0
1255.4173	29.01	-3.96	138130.810	3.0	146094.110	3.0
1255.4173	29.01	-2.53	138130.810	3.0	146094.110	4.0
1255.4258	18.00	-1.54	105462.804	3.0	113426.050	2.0
1255.4457	10.01	-4.95	313457.570	3.5	321420.690	2.5
1255.4646	24.00	-4.94	44068.720	3.0	52031.720	3.0
1255.4851	10.01	-3.05	313457.540	2.5	321420.410	1.5
1255.5331	26.00	-3.18	46720.824	4.0	54683.390	4.0
1255.5813	7.00	-1.65	104984.340	.5	112946.600	.5
1255.5813	7.00	-.85	104984.340	.5	112946.600	1.5
1255.5873	26.00	-2.51	43499.485	4.0	51461.707	4.0
1255.5939	25.00	-2.90	51638.170	2.5	59600.350	2.5
1255.6002	22.00	-3.67	36013.570	2.0	43975.710	1.0
1255.6077	18.00	-3.96	117151.387	1.0	125113.480	2.0
1255.6255	10.01	-3.64	313461.990	5.5	321423.970	5.5
1255.6681	13.02	-3.21	209288.460	4.5	217250.170	4.5
1255.6681	13.02	-1.48	209288.460	5.5	217250.170	4.5
1255.6681	13.02	-1.57	209288.460	4.5	217250.170	3.5
1255.7020	26.00	-4.12	18378.187	2.0	26339.682	2.0
1255.7075	7.00	-1.68	104996.240	1.5	112957.700	1.5
1255.7075	7.00	-1.35	104996.240	1.5	112957.700	2.5
1255.7328	13.01	-1.83	140091.200	1.0	148052.500	1.0
1255.7328	13.01	-1.52	140091.200	2.0	148052.500	1.0
1255.7328	13.01	-2.22	140091.200	0.0	148052.500	1.0
1255.7705	7.00	-2.46	96864.020	2.5	104825.080	2.5
1255.7721	14.02	.33	201598.280	2.0	209559.330	3.0
1255.7958	15.00	-1.33	74271.800	1.5	82232.700	2.5
1255.8621	26.00	-3.93	49737.110	5.0	57697.590	4.0
1255.8880	26.00	-3.77	45964.944	2.0	53925.260	1.0
1255.8984	18.00	-1.68	114641.040	2.0	122601.290	1.0
1255.9220	27.00	-2.27	44201.920	2.5	52162.020	3.5
1255.9615	14.02	-.57	201599.480	3.0	209559.330	3.0
1256.1508	7.00	-.98	105008.520	2.5	112967.170	3.5
1256.1745	29.01	-1.25	141244.600	1.0	149203.100	0.0
1256.1934	9.00	-1.96	129484.660	1.5	137443.040	2.5
1256.2124	6.00	-1.14	71364.900	1.0	79323.160	0.0
1256.2266	10.01	-4.03	313469.890	3.5	321428.060	3.5
1256.2771	9.01	.16	269563.930	2.0	277521.780	2.0
1256.3087	27.00	-3.57	43242.950	2.5	51200.600	1.5
1256.3103	10.01	-3.41	313470.420	2.5	321428.060	3.5
1256.3329	17.00	.02	95144.623	2.5	103102.120	1.5
1256.3371	28.01	-2.56	122270.050	3.5	130227.520	2.5
1256.3766	25.01	-2.81	68417.340	2.0	76374.560	2.0
1256.4350	29.01	-4.10	129116.900	3.0	137073.750	2.0
1256.4414	7.00	-.78	105008.520	2.5	112965.330	3.5
1256.4540	24.00	-4.84	36577.730	4.0	44534.460	4.0
1256.4561	17.00	-1.11	95144.623	2.5	103101.340	2.5
1256.4650	25.00	-3.11	57305.620	3.5	65262.280	4.5
1256.4653	26.00	-3.95	43022.969	4.0	50979.627	4.0
1256.4698	27.00	-3.69	43242.950	2.5	51199.580	3.5
1256.4846	14.00	-2.09	54185.264	1.0	62141.800	1.0
1256.4982	9.01	-.42	269563.930	2.0	277520.380	1.0
1256.5108	26.00	-4.66	26406.490	1.0	34362.860	1.0
1256.5743	22.00	-4.40	31829.972	4.0	39785.940	4.0
1256.5977	28.01	-1.63	122270.050	3.5	130225.870	3.5
1256.6324	17.01	-2.20	150813.000	1.0	158768.600	2.0
1256.6388	23.00	-1.23	29202.800	1.5	37158.360	1.5
1256.6466	14.02	-3.80	249966.490	5.0	257922.000	5.0
1256.6466	14.02	-3.91	249966.490	5.0	257922.000	5.0
1256.6466	14.02	-2.00	249966.490	6.0	257922.000	5.0
1256.6466	14.02	-2.00	249966.490	6.0	257922.000	5.0
1256.6466	14.02	-3.81	249966.490	6.0	257922.000	6.0
1256.6466	14.02	-3.89	249966.490	6.0	257922.000	6.0
1256.6466	14.02	-1.93	249966.490	7.0	257922.000	6.0
1256.6466	14.02	-2.08	249966.490	5.0	257922.000	4.0
1256.7620	13.02	-2.71	209284.530	3.5	217239.310	3.5
1256.7620	13.02	-1.16	209284.530	4.5	217239.310	3.5
1256.7620	13.02	-1.28	209284.530	3.5	217239.310	2.5
1256.8902	7.00	-2.81	106996.032	1.5	114950.000	.5
1256.8902	7.00	-3.63	106996.032	1.5	114950.000	1.5
1256.9041	6.00	-1.39	71364.900	1.0	79318.780	1.0
1256.9057	9.01	-.63	269563.930	2.0	277517.800	3.0
1256.9611	22.00	-3.19	36208.920	4.0	44162.440	4.0
1256.9615	22.00	-2.19	17540.205	3.0	25493.722	2.0
1256.9642	27.00	-1.24	27497.060	2.5	35450.560	3.5
1256.9753	29.01	-4.31	130945.000	1.0	138898.430	1.0
1256.9879	10.01	-3.72	313469.890	3.5	321423.240	3.5
1256.9885	8.00	-.33	97488.390	1.0	105441.736	2.0
1256.9895	10.01	-3.43	313469.890	3.5	321423.230	4.5
1256.9996	8.00	-1.08	97488.460	2.0	105441.736	2.0
1256.9996	8.00	-.17	97488.460	2.0	105441.736	3.0
1257.0010	8.00	-2.56	97488.390	1.0	105441.657	1.0
1257.0010	8.00	-2.26	97488.390	1.0	105441.657	2.0
1257.0121	8.00	-1.91	97488.460	2.0	105441.657	2.0
1257.0121	8.00	-2.91	97488.460	2.0	105441.657	1.0
1257.0121	8.00	-1.53	97488.460	2.0	105441.657	3.0
1257.0138	8.00	-2.65	97488.550	3.0	105441.736	2.0
1257.0138	8.00	-1.10	97488.550	3.0	105441.736	3.0
1257.0138	8.00	-.04	97488.550	3.0	105441.736	4.0
1257.0180	6.00	-4.39	78529.620	3.0	86482.780	2.0
1257.0227	18.01	-2.89	150474.900	1.5	158428.030	.5
1257.0263	8.00	-1.57	97488.550	3.0	105441.657	3.0
1257.0263	8.00	-1.01	97488.550	3.0	105441.657	4.0
1257.0263	8.00	-2.59	97488.550	3.0	105441.657	2.0
1257.0274	27.00	-1.74	46329.630	2.5	54282.730	2.5
1257.0369	6.00	-1.90	78529.620	3.0	86482.660	3.0
1257.0496	10.01	-3.09	313469.890	3.5	321422.850	4.5
1257.0606	24.00	-3.97	47021.750	1.0	54974.640	2.0
1257.0717	10.01	-3.27	313470.420	2.5	321423.240	3.5
1257.0923	10.00	-.84	161590.346	4.0	169543.036	4.0
1257.0934	10.00	-2.39	161590.346	4.0	169543.029	3.0
1257.1033	18.01	-1.84	196633.020	2.5	204585.640	2.5
1257.3468	10.01	-3.63	313457.540	2.5	321408.620	2.5
1257.3515	10.01	-2.93	313457.570	3.5	321408.620	2.5
1257.3703	7.00	-3.23	107037.069	2.5	114988.000	1.5
1257.3703	7.00	-3.38	107037.069	2.5	114988.000	2.5
1257.3703	7.00	-1.99	107037.069	2.5	114988.000	3.5
1257.3727	10.00	-2.44	161592.120	3.0	169543.036	4.0
1257.3738	10.00	-.96	161592.120	3.0	169543.029	3.0
1257.3800	10.01	-4.01	313457.570	3.5	321408.440	3.5
1257.4396	22.00	-3.05	38699.767	2.0	46650.260	3.0
1257.4607	7.00	-1.79	104996.240	1.5	112946.600	.5
1257.4607	7.00	-1.13	104996.240	1.5	112946.600	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1257.4860	15.00	-.71	72386.100	2.5	80336.300	2.5
1257.5809	7.00	-1.67	105017.570	3.5	112967.170	3.5
1257.5983	7.00	-1.41	105017.570	3.5	112967.060	4.5
1257.6283	15.00	-1.12	69894.600	1.5	77843.900	2.5
1257.6473	7.00	-2.02	105008.520	2.5	112957.700	1.5
1257.6473	7.00	-1.79	105008.520	2.5	112957.700	2.5
1257.6552	6.00	-3.63	81105.030	1.0	89054.160	2.0
1257.7233	15.00	-1.82	69894.600	1.5	77843.300	1.5
1257.7386	10.00	-2.13	161590.346	4.0	169538.949	3.0
1257.7533	23.00	-6.00	8412.940	.5	16361.450	1.5
1257.7644	18.01	-4.56	155351.030	1.5	163299.470	2.5
1257.7692	10.01	-4.98	313457.540	2.5	321405.950	3.5
1257.7739	10.01	-3.63	313457.570	3.5	321405.950	3.5
1257.7866	13.01	-.18	142362.800	2.0	150311.100	3.0
1257.7866	13.01	-1.08	142362.800	3.0	150311.100	3.0
1257.7988	22.00	-2.56	17369.590	1.0	25317.813	1.0
1257.8119	9.01	-.62	269573.640	1.0	277521.780	2.0
1257.8261	29.01	-1.76	133594.050	3.0	141542.100	2.0
1257.8467	28.01	-4.75	113172.960	4.5	121120.880	5.5
1257.8610	29.01	-1.93	128778.100	4.0	136725.930	5.0
1257.8657	28.01	-4.80	113177.610	3.5	121125.410	4.5
1257.8721	7.00	-.90	105017.570	3.5	112965.330	3.5
1257.8847	10.01	-4.76	313457.570	3.5	321405.250	4.5
1257.9541	14.00	-3.16	49850.830	2.0	57798.072	2.0
1258.0049	19.00	-2.08	24701.430	.5	32648.350	.5
1258.0089	26.00	-1.99	43434.585	3.0	51381.480	4.0
1258.0182	10.00	-2.26	161592.120	3.0	169538.956	2.0
1258.0194	10.00	-3.66	161592.120	3.0	169538.949	3.0
1258.0334	9.01	-.06	269573.640	1.0	277520.380	1.0
1258.0509	28.01	-3.91	121325.090	2.5	129271.720	3.5
1258.0762	10.01	-3.52	313461.970	4.5	321408.440	3.5
1258.1015	7.00	-.93	96864.020	2.5	104810.330	2.5
1258.1115	26.00	-3.08	47960.973	4.0	55907.220	5.0
1258.1316	23.01	-4.23	44657.990	2.0	52604.110	1.0
1258.1557	7.00	-2.27	106996.032	1.5	114942.000	2.5
1258.1575	22.00	-4.87	37743.933	3.0	45689.890	3.0
1258.1586	6.00	-.70	71364.900	1.0	79310.850	2.0
1258.1823	15.00	-4.45	68246.500	2.5	76192.300	1.5
1258.2172	7.00	-2.81	104881.320	3.5	112826.900	2.5
1258.2172	7.00	-2.19	104881.320	3.5	112826.900	3.5
1258.2377	28.01	-1.36	122270.050	3.5	130215.500	4.5
1258.3744	26.00	-4.29	47960.973	4.0	55905.560	4.0
1258.3924	14.00	-1.01	53362.240	3.0	61306.713	4.0
1258.4262	28.01	-4.51	128822.230	1.5	136766.490	2.5
1258.4595	23.00	-3.59	15664.750	1.5	23608.800	1.5
1258.4629	10.00	.10	161590.346	4.0	169534.374	5.0
1258.4645	10.00	-1.54	161590.346	4.0	169534.364	4.0
1258.4706	10.01	-2.89	313461.970	4.5	321405.950	3.5
1258.4817	26.00	-3.87	46313.610	2.0	54257.520	2.0
1258.4828	18.00	-2.06	116660.054	1.0	124603.957	2.0
1258.4896	17.00	-1.48	90749.360	2.5	98693.220	2.5
1258.5038	10.01	-3.73	313480.240	4.5	321424.010	4.5
1258.5118	24.00	-5.00	44068.720	3.0	52012.440	2.0
1258.5224	17.00	-.40	90749.360	2.5	98693.013	3.5
1258.5625	15.04	.36	427157.000	.5	435100.400	1.5
1258.5815	10.01	-3.51	313461.970	4.5	321405.250	4.5
1258.5847	10.01	-2.69	313461.990	5.5	321405.250	4.5
1258.6005	27.00	-4.08	47612.180	1.5	55555.340	2.5
1258.6560	14.00	-2.63	53362.240	3.0	61305.050	3.0
1258.6906	26.00	-3.98	42532.729	3.0	50475.320	4.0
1258.7456	10.00	-0.00	161592.120	3.0	169534.364	4.0
1258.7621	29.01	-4.37	138130.810	3.0	146072.950	2.0
1258.7621	29.01	-2.92	138130.810	3.0	146072.950	3.0
1258.7775	14.00	-3.63	53362.240	3.0	61304.283	2.0
1258.8586	7.00	-2.97	107588.469	.5	115530.000	.5
1258.8586	7.00	-2.15	107588.469	.5	115530.000	1.5
1258.9111	20.02	-1.93	363118.750	3.0	371059.950	3.0
1258.9205	14.00	-1.97	53362.240	3.0	61303.381	3.0
1258.9809	28.01	-4.51	122047.290	3.5	129988.050	2.5
1259.0189	27.00	-4.89	47225.110	3.5	55165.630	2.5
1259.0237	10.01	-2.92	313480.200	3.5	321420.690	2.5
1259.0459	28.00	-2.37	50689.490	2.0	58629.840	2.0
1259.0649	25.02	-1.44	208751.600	4.5	216691.830	5.5
1259.0808	7.00	-3.39	105017.570	3.5	112957.700	2.5
1259.0919	28.00	-2.72	50689.490	2.0	58629.550	3.0
1259.0950	6.00	-2.81	78529.620	3.0	86469.660	4.0
1259.1013	7.01	-1.21	202765.260	2.0	210705.260	2.0
1259.1061	24.01	-3.59	59130.510	1.5	67070.480	1.5
1259.1109	24.00	-3.21	46878.610	3.0	54818.550	2.0
1259.1188	6.00	-2.07	78529.620	3.0	86469.510	3.0
1259.1223	26.00	-4.57	45720.662	3.0	53160.530	3.0
1259.2045	24.00	-4.45	47047.470	2.0	54986.820	3.0
1259.2219	26.01	-4.46	72238.630	2.5	80177.870	1.5
1259.2854	28.01	-2.37	122270.050	3.5	130208.890	3.5
1259.3528	26.00	-4.06	46744.975	3.0	54683.390	4.0
1259.3536	28.00	-.92	42767.900	3.0	50706.310	4.0
1259.3647	24.00	-4.53	47048.480	3.0	54986.820	3.0
1259.3996	17.00	-.42	83130.900	1.5	91069.020	.5
1259.4060	7.00	-2.10	105008.520	2.5	112946.600	1.5
1259.4234	18.00	-2.69	113716.610	3.0	121654.580	2.0
1259.4250	28.01	-4.84	113623.100	.5	121561.060	.5
1259.4392	27.00	-4.91	44183.340	4.5	52121.210	4.5
1259.4646	18.00	-1.58	113716.610	3.0	121654.320	3.0
1259.4964	27.00	-4.26	45766.630	3.5	53704.140	2.5
1259.5005	10.00	-1.22	150858.508	2.0	158795.992	1.0
1259.5007	26.00	-3.15	40594.413	4.0	48531.896	3.0
1259.5725	27.00	-4.31	43263.570	1.5	51200.600	1.5
1259.6011	28.01	-1.30	122270.050	3.5	130206.900	4.5
1259.6106	18.00	-1.36	113716.610	3.0	121653.400	3.0
1259.6106	18.00	-.17	113716.610	3.0	121653.400	4.0
1259.6170	28.01	-3.70	113225.060	.5	121161.810	1.5
1259.6233	14.00	-3.79	54205.090	2.0	62141.800	1.0
1259.7472	7.00	-.46	105017.570	3.5	112953.500	4.5
1259.7694	6.00	-4.64	69744.030	3.0	77679.820	2.0
1259.7709	26.00	-4.48	45833.240	4.0	53769.020	4.0
1259.7726	6.00	-2.50	80562.850	1.0	88498.620	2.0
1259.8105	7.00	-2.34	107588.469	.5	115524.000	1.5
1259.8105	7.00	-3.64	107588.469	.5	115524.000	.5
1259.8154	27.00	-3.81	45766.630	3.5	53702.130	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1259.9792	26.00	-4.54	45220.662	3.0	53155.130	4.0
1260.0275	22.00	-2.60	11639.804	3.0	19573.968	4.0
1260.0774	27.00	-3.88	46002.830	2.5	53936.680	2.5
1260.1060	14.02	.16	201597.730	1.0	209531.400	2.0
1260.1489	6.00	-.89	71385.380	2.0	79318.780	1.0
1260.1933	14.02	-.57	201598.280	2.0	209531.400	2.0
1260.2410	26.01	-4.42	85462.780	3.5	93395.600	2.5
1260.3363	7.00	-1.86	96750.810	1.5	104683.030	2.5
1260.3840	14.02	-2.12	201599.480	3.0	209531.400	2.0
1260.3856	24.00	-3.50	47054.910	4.0	54986.820	3.0
1260.4190	15.00	-4.04	68260.600	.5	76192.300	1.5
1260.4198	10.00	-1.38	161607.261	2.0	169538.956	2.0
1260.4209	10.00	-.23	161607.261	2.0	169538.949	3.0
1260.4937	17.00	-4.36	90487.870	3.5	98419.100	2.5
1260.5064	18.01	-1.67	186890.950	2.5	194822.100	3.5
1260.5271	17.00	-.90	90487.870	3.5	98418.890	3.5
1260.5286	23.00	-1.13	29296.430	2.5	37227.440	2.5
1260.5302	15.00	.33	74301.700	2.5	82232.700	2.5
1260.5445	26.00	-3.02	50043.250	1.0	57974.160	2.0
1260.5986	27.00	-2.39	44183.340	4.5	52113.910	5.5
1260.6431	24.00	-4.92	48661.590	3.0	56591.880	2.0
1260.6531	26.00	-3.04	48928.423	2.0	56858.650	2.0
1260.6764	24.00	-3.93	33113.270	4.0	41043.350	3.0
1260.6971	27.00	-2.60	48615.560	2.5	56545.510	2.5
1260.7168	18.00	-3.10	117183.654	2.0	125113.480	2.0
1260.7798	26.00	-4.69	46137.140	3.0	54066.570	4.0
1260.8291	27.00	-2.75	46329.630	2.5	54258.750	2.5
1260.8497	24.00	-2.38	49453.940	4.0	57382.930	5.0
1260.8650	26.00	-4.34	44285.436	2.0	52214.330	1.0
1260.9183	22.00	-4.25	31373.801	3.0	39302.360	4.0
1260.9658	26.00	-3.75	50045.900	2.0	57974.160	2.0
1260.9690	10.01	-3.54	313480.200	3.5	321408.440	3.5
1260.9754	10.01	-2.91	313480.240	4.5	321408.440	3.5
1260.9785	19.00	-1.79	24720.170	1.5	32648.350	.5
1261.0113	26.00	-3.56	47197.000	2.0	55124.974	3.0
1261.0167	27.00	-4.62	45766.630	3.5	53694.570	3.5
1261.1392	24.00	-4.83	47047.470	2.0	54974.640	2.0
1261.1488	23.00	-3.21	31200.120	1.5	39127.230	1.5
1261.1862	26.00	-2.76	43434.585	3.0	51361.460	3.0
1261.2220	28.01	-2.43	109148.050	4.5	117074.700	3.5
1261.2284	8.02	-2.07	358667.400	1.0	366594.010	2.0
1261.3651	10.01	-4.81	313480.200	3.5	321405.950	3.5
1261.3715	10.01	-3.38	313480.240	4.5	321405.950	3.5
1261.3854	22.00	-2.75	29818.310	3.0	37743.933	3.0
1261.4097	6.00	-.38	71385.380	2.0	79310.850	2.0
1261.4304	9.00	-4.03	130016.100	2.5	137941.440	2.5
1261.4543	28.01	-4.49	129782.070	3.5	137707.260	3.5
1261.4830	10.01	-4.22	313480.240	4.5	321405.250	4.5
1261.5419	28.01	-4.42	129782.070	3.5	137706.710	2.5
1261.5657	27.00	-2.10	46502.150	.5	54426.640	1.5
1261.5953	26.00	-2.37	37409.530	1.0	45333.834	2.0
1261.6438	15.00	.12	74271.800	1.5	82195.800	1.5
1261.7288	26.00	-4.93	26623.726	2.0	34547.192	2.0
1261.7506	22.00	-4.29	31489.451	4.0	39412.780	5.0
1261.7663	10.00	-1.81	161607.261	2.0	169530.491	1.0
1261.7665	22.00	-4.99	31184.021	1.0	39107.250	1.0
1261.7670	10.00	-.85	161607.261	2.0	169530.487	2.0
1261.8332	26.01	-4.33	58666.360	3.5	66589.170	4.5
1261.8476	18.01	-4.06	200880.520	3.5	208803.240	4.5
1261.8482	10.00	-2.85	163401.301	0.0	171324.017	1.0
1261.9336	14.00	-1.62	54528.220	2.0	62450.400	1.0
1262.0279	26.00	-4.23	42911.897	5.0	50833.485	5.0
1262.0355	18.01	-.28	183090.810	1.5	191012.350	1.5
1262.1342	17.00	.17	95180.419	3.5	103101.340	2.5
1262.1612	18.00	-1.45	107054.319	0.0	114975.070	1.0
1262.1774	25.00	-4.98	49591.510	1.5	57512.160	1.5
1262.1965	29.01	-3.83	138130.810	3.0	146051.340	2.0
1262.1997	26.01	-3.43	71964.810	2.5	79885.320	2.5
1262.2809	23.00	-4.22	15688.800	2.5	23608.800	1.5
1262.2969	29.01	-3.24	128853.300	2.0	136773.200	1.0
1262.3331	26.00	-4.00	43079.013	1.0	50998.686	2.0
1262.3527	7.01	-.45	206910.240	0.0	214829.790	1.0
1262.3877	21.00	-2.60	32751.540	3.5	40670.870	4.5
1262.4084	15.00	-.98	69924.700	2.5	77843.900	2.5
1262.4435	25.02	-.56	208751.600	4.5	216670.580	4.5
1262.4483	28.01	-3.31	113321.950	4.5	121240.900	3.5
1262.4563	25.00	-4.24	56490.790	2.5	64409.690	3.5
1262.4659	24.00	-1.93	49453.940	4.0	57372.780	4.0
1262.5185	23.00	-2.76	30021.570	.5	37940.080	.5
1262.5724	14.00	-3.43	54313.818	1.0	62231.990	2.0
1262.5886	29.01	-3.26	129116.900	3.0	137034.970	3.0
1262.6349	28.01	-2.51	113407.310	2.5	121325.090	2.5
1262.6604	29.01	-3.08	115639.020	2.0	123556.640	2.0
1262.6699	28.01	-2.50	122812.970	3.5	130730.530	2.5
1262.6827	26.00	-3.25	45913.480	3.0	53830.960	3.0
1262.7095	7.00	-2.66	107182.788	1.5	115100.100	2.5
1262.7673	14.00	-2.37	53387.334	1.0	61304.283	2.0
1262.7768	29.01	-2.66	138177.220	2.0	146094.110	3.0
1262.8582	28.01	-2.35	113408.710	1.5	121325.090	2.5
1262.8693	14.02	-3.02	249937.290	4.0	257853.600	4.0
1262.8693	14.02	-3.16	249937.290	4.0	257853.600	4.0
1262.8693	14.02	-1.40	249937.290	5.0	257853.600	4.0
1262.8693	14.02	-4.50	249937.290	5.0	257853.600	4.0
1262.8693	14.02	-1.40	249937.290	5.0	257853.600	4.0
1262.8693	14.02	-4.78	249937.290	4.0	257853.600	5.0
1262.8693	14.02	-3.04	249937.290	5.0	257853.600	5.0
1262.8693	14.02	-3.15	249937.290	5.0	257853.600	5.0
1262.8693	14.02	-1.32	249937.290	6.0	257853.600	5.0
1262.8693	14.02	-1.50	249937.290	4.0	257853.600	3.0
1262.8917	26.01	-4.67	72429.740	.5	80345.910	.5
1263.0602	18.00	-3.89	117151.387	1.0	125066.501	2.0
1263.0954	28.00	-2.46	51124.800	3.0	59039.693	4.0
1263.1033	10.00	-4.85	159534.620	1.0	167449.464	1.0
1263.1379	26.00	-3.29	43922.652	3.0	51837.279	3.0
1263.1405	18.01	-3.78	159393.310	1.5	167307.920	.5
1263.1741	15.00	-.10	72386.100	2.5	80300.500	3.5
1263.1837	28.01	-3.68	122270.050	3.5	130184.390	2.5
1263.1865	22.00	-4.29	39115.958	4.0	47030.280	3.0
1263.1889	26.00	-3.54	45833.240	4.0	53747.547	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1263.2279	17.00	-.66	84688.637	.5	92602.700	.5
1263.2571	23.00	-1.38	29202.800	1.5	37116.680	.5
1263.2826	22.00	-1.19	36340.670	2.0	44254.390	3.0
1263.3340	26.00	-3.00	43163.282	4.0	51076.680	4.0
1263.3513	7.00	-2.54	96750.810	1.5	104664.100	1.5
1263.4086	7.00	-3.11	107037.069	2.5	114950.000	1.5
1263.4423	18.00	-3.72	114805.180	2.0	122717.900	3.0
1263.4583	28.01	-4.22	128853.870	2.5	136766.490	2.5
1263.4660	14.00	-2.61	54313.818	1.0	62226.390	1.0
1263.4797	22.00	-1.16	29912.262	3.0	37824.748	4.0
1263.5413	13.01	-4.10	139588.700	4.0	147500.800	4.0
1263.5413	13.01	-4.24	139588.700	4.0	147500.800	4.0
1263.5413	13.01	-2.57	139588.700	5.0	147500.800	4.0
1263.6116	27.00	-4.10	44183.340	4.5	52095.000	3.5
1263.6371	13.01	-4.23	139588.700	3.0	147500.200	3.0
1263.6371	13.01	-2.89	139588.700	4.0	147500.200	3.0
1263.6371	13.01	-2.11	139588.700	4.0	147500.200	3.0
1263.7010	13.01	-2.81	139588.700	3.0	147499.800	2.0
1263.7489	24.00	-4.92	43124.880	2.0	51035.680	2.0
1263.7649	17.01	-1.71	150813.000	1.0	158723.700	1.0
1263.8138	26.00	-2.93	41018.029	2.0	48928.423	2.0
1263.8524	18.00	-2.61	106237.597	2.0	114147.750	1.0
1263.8723	22.00	-4.31	29914.720	3.0	37824.748	4.0
1263.8747	26.00	-1.62	36766.950	3.0	44676.963	4.0
1263.8863	25.01	-4.84	62587.500	3.0	70497.440	4.0
1263.9071	22.00	-3.98	34078.580	3.0	41988.390	3.0
1263.9248	28.00	-2.13	42767.900	3.0	50677.599	3.0
1263.9534	7.00	-2.21	106980.480	.5	114890.000	1.5
1263.9710	23.00	-2.71	30094.520	1.5	38003.930	1.5
1264.0223	10.00	-1.28	162408.653	2.0	170317.742	2.0
1264.0254	8.01	-.49	240516.280	1.5	248425.350	.5
1264.0389	10.00	-.14	162408.653	2.0	170317.638	3.0
1264.0829	28.01	-4.18	121385.800	1.5	129294.510	2.5
1264.1277	27.00	-1.29	43295.320	4.5	51203.750	5.5
1264.1516	29.01	-4.98	139028.200	2.0	146936.480	2.0
1264.1548	28.01	-3.28	105499.050	3.5	113407.310	2.5
1264.2284	28.01	-4.65	122080.250	2.5	129988.050	2.5
1264.2348	28.01	-4.33	108368.050	2.5	116275.810	3.5
1264.2654	10.00	-2.60	162410.174	3.0	170317.742	2.0
1264.2686	10.00	-1.42	162410.174	3.0	170317.722	3.0
1264.2747	10.00	.01	162410.174	3.0	170317.684	4.0
1264.2811	10.01	-1.96	283894.410	.5	291801.880	1.5
1264.2821	10.00	-1.30	162410.174	3.0	170317.638	3.0
1264.2907	6.00	-4.00	79310.850	2.0	87218.260	2.0
1264.3083	24.00	-2.45	49453.940	4.0	57361.240	3.0
1264.3211	20.02	-.17	382565.100	5.0	390472.320	5.0
1264.3275	21.00	-2.76	32696.840	2.5	40604.020	3.5
1264.3716	14.00	-4.42	57017.496	2.0	64924.400	3.0
1264.3819	25.02	-1.18	208650.540	3.5	216557.380	3.5
1264.3979	26.00	-3.28	50803.350	2.0	58710.090	3.0
1264.4015	7.00	-2.70	107628.283	1.5	115535.000	2.5
1264.4058	20.02	-1.90	382565.100	5.0	390471.790	4.0
1264.4765	26.00	-3.51	45833.240	4.0	53739.488	5.0
1264.5322	23.01	-7.24	26839.820	3.0	34745.720	3.0
1264.6872	7.00	-1.90	107037.069	2.5	114942.000	2.5
1264.7386	23.02	-4.68	154480.500	4.5	162385.110	3.5
1264.7491	14.00	-3.00	56978.256	1.0	64882.800	2.0
1264.7514	28.01	-4.97	119315.440	2.5	127219.970	3.5
1264.7738	27.00	-2.69	44555.710	1.5	52460.100	2.5
1264.7946	27.00	-3.22	43295.320	4.5	51199.580	3.5
1264.8336	22.00	-4.57	37852.434	4.0	45756.450	5.0
1264.8490	23.00	-1.22	29418.170	3.5	37322.090	3.5
1264.8776	26.00	-1.93	37157.546	2.0	45061.287	3.0
1264.9194	10.01	-4.26	305566.940	1.5	313470.420	2.5
1264.9434	18.01	-4.74	201345.220	1.5	209248.550	2.5
1264.9659	7.00	-2.08	96750.810	1.5	104654.000	.5
1264.9962	18.00	-2.01	114805.180	2.0	122708.180	2.0
1265.0346	18.00	-.89	114805.180	2.0	122707.940	3.0
1265.0730	10.01	-.51	282680.650	.5	290583.170	1.5
1265.1020	10.00	-.44	161636.617	1.0	169538.956	2.0
1265.1035	24.00	-2.08	31009.000	3.0	38911.330	3.0
1265.1421	22.00	-3.67	34204.971	4.0	42107.060	4.0
1265.1552	26.00	-4.78	43079.013	1.0	50981.020	0.0
1265.1850	8.00	-2.14	99680.968	1.0	107582.789	1.0
1265.1850	8.00	-1.67	99680.968	1.0	107582.789	2.0
1265.1979	8.00	-3.32	99681.049	2.0	107582.789	1.0
1265.1979	8.00	-2.14	99681.049	2.0	107582.789	2.0
1265.1979	8.00	-1.39	99681.049	2.0	107582.789	3.0
1265.2016	7.00	-3.31	107628.283	1.5	115530.000	.5
1265.2016	7.00	-3.06	107628.283	1.5	115530.000	1.5
1265.2396	8.00	-2.02	99681.309	0.0	107582.789	1.0
1265.2828	26.00	-2.68	44166.240	3.0	52067.450	2.0
1265.3469	29.01	-2.86	128853.300	2.0	136754.110	2.0
1265.4910	18.01	-3.95	201351.550	2.5	209251.460	3.5
1265.5583	28.01	-4.52	128867.000	3.5	136766.490	2.5
1265.5599	6.00	-4.41	79318.780	1.0	87218.260	2.0
1265.5626	28.00	-1.91	42790.027	2.0	50689.490	2.0
1265.6860	22.00	-2.64	17540.205	3.0	25438.898	2.0
1265.6884	28.00	-2.97	50689.490	2.0	58588.168	3.0
1265.7570	23.00	-2.95	31228.980	2.5	39127.230	1.5
1265.8355	10.00	-1.46	162419.982	2.0	170317.742	2.0
1265.8387	10.00	-.12	162419.982	2.0	170317.722	3.0
1265.8522	10.00	-2.60	162419.982	2.0	170317.638	3.0
1265.8531	24.00	-2.43	27500.370	3.0	35398.020	4.0
1265.9221	28.01	-4.97	121042.520	1.5	128939.740	1.5
1265.9574	15.01	-.75	123456.300	1.0	131353.300	2.0
1265.9574	19.00	-3.07	24701.430	.5	32598.430	1.5
1265.9574	18.01	-4.93	201351.550	2.5	209248.550	2.5
1265.9926	14.00	-4.33	54245.020	0.0	62141.800	1.0
1266.0541	20.00	-2.62	40537.893	3.0	48434.290	2.0
1266.0927	26.00	-4.84	42911.897	5.0	50808.053	4.0
1266.1007	26.00	-4.67	45333.834	2.0	53229.940	1.0
1266.1321	18.00	-1.93	114821.990	3.0	122717.900	3.0
1266.1321	18.00	-.84	114821.990	3.0	122717.900	4.0
1266.1417	17.00	-1.70	90487.870	3.5	98383.720	3.5
1266.1497	13.01	-.45	138518.700	2.0	146414.500	3.0
1266.1546	21.00	-2.95	32659.210	1.5	40554.980	2.5
1266.1610	29.01	-4.15	138177.220	2.0	146072.950	3.0
1266.1610	29.01	-3.04	138177.220	2.0	146072.950	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1266.1630	7.00	-2.51	107628.283	1.5	115524.000	2.5
1266.1630	7.00	-3.97	107628.283	1.5	115524.000	.5
1266.1882	17.00	-.20	90487.870	3.5	98383.430	4.5
1266.2171	7.00	-1.23	96787.650	1.5	104683.030	2.5
1266.2965	18.00	-2.08	116660.054	1.0	124554.939	1.0
1266.3262	10.01	-1.75	246397.490	1.5	254292.190	.5
1266.3273	18.00	-4.07	115366.900	1.0	123261.593	2.0
1266.3533	7.00	-2.66	107588.469	.5	115483.000	.5
1266.3533	7.00	-3.57	107588.469	.5	115483.000	1.5
1266.3631	24.00	-1.82	49466.770	2.0	57361.240	3.0
1266.4225	15.00	-.81	74301.700	2.5	82195.800	1.5
1266.4436	7.00	-2.70	106996.032	1.5	114890.000	1.5
1266.4449	22.00	-3.94	17423.853	2.0	25317.813	1.0
1266.4586	10.00	-1.31	161636.617	1.0	169530.491	1.0
1266.4593	10.00	-1.23	161636.617	1.0	169530.487	2.0
1266.5861	27.00	-2.25	44201.920	2.5	52095.000	3.5
1266.6294	14.00	-1.08	54528.220	2.0	62421.030	3.0
1266.7016	14.02	-1.87	242473.860	4.0	250366.220	3.0
1266.7305	26.00	-4.38	50628.000	3.0	58520.180	4.0
1266.7565	22.00	-4.94	18911.399	2.0	26803.417	2.0
1266.7675	14.02	-1.77	242474.270	4.0	250366.220	3.0
1266.8188	27.00	-1.87	44568.470	2.5	52460.100	2.5
1266.8346	7.00	-2.99	107588.469	.5	115480.000	1.5
1266.8346	7.00	-3.00	107588.469	.5	115480.000	.5
1266.8589	26.00	-3.99	48531.896	3.0	56423.276	4.0
1266.8763	22.00	-1.45	29768.655	2.0	37659.927	3.0
1266.8814	29.01	-2.99	115665.400	1.0	123556.640	2.0
1266.8828	22.00	-4.36	33980.639	2.0	41871.870	2.0
1266.9360	18.01	-4.30	201030.300	.5	208921.200	1.5
1266.9520	27.00	-1.52	40827.770	1.5	48718.570	2.5
1267.0073	26.00	-2.55	42532.729	3.0	50423.185	4.0
1267.1046	24.00	-4.97	39158.630	4.0	47048.480	3.0
1267.1100	22.00	-2.64	11531.760	2.0	19421.576	3.0
1267.1255	25.00	-4.04	51638.170	2.5	59527.890	1.5
1267.1383	24.00	-3.45	27728.870	2.0	35618.510	1.0
1267.2267	27.00	-4.42	47393.930	2.5	55283.020	2.5
1267.2556	21.00	-3.89	36934.150	1.5	44823.060	1.5
1267.2684	9.01	-1.56	270508.290	2.0	278397.120	1.0
1267.3857	8.01	-1.99	248009.100	1.5	255897.200	2.5
1267.3873	18.00	-4.65	115366.900	1.0	123254.990	1.0
1267.3937	13.02	-.76	201375.200	2.5	209263.250	2.5
1267.3937	13.02	.54	201375.200	2.5	209263.250	3.5
1267.4516	13.02	.39	201375.560	1.5	209263.250	2.5
1267.5207	29.01	-3.58	138220.070	4.0	146107.330	5.0
1267.6926	18.00	-2.65	114821.990	3.0	122708.180	2.0
1267.7312	18.00	-1.48	114821.990	3.0	122707.940	3.0
1267.7940	17.00	-4.91	90487.870	3.5	98373.430	2.5
1267.8152	22.00	-2.23	38764.832	3.0	46650.260	3.0
1267.8438	23.00	-6.38	8476.200	1.5	16361.450	1.5
1267.8728	6.00	-.89	78529.620	3.0	86414.690	4.0
1267.9049	6.00	-2.36	78529.620	3.0	86414.490	3.0
1267.9144	11.00	-1.34	29172.839	2.5	37057.650	2.5
1267.9144	11.00	-.04	29172.839	2.5	37057.650	3.5
1267.9224	11.00	-.20	29172.889	1.5	37057.650	2.5
1267.9772	20.02	-1.90	382587.900	4.0	390472.320	5.0
1268.0030	7.00	-1.17	104996.240	1.5	112880.500	2.5
1268.0126	24.00	-4.75	49477.040	2.0	57361.240	3.0
1268.0126	18.01	.17	182222.030	1.5	190106.230	1.5
1268.0625	20.02	-.26	382587.900	4.0	390471.790	4.0
1268.0641	24.00	-1.01	49466.770	2.0	57350.650	2.0
1268.0700	26.00	-3.23	44183.607	2.0	52067.450	2.0
1268.0754	21.00	-3.15	32637.400	.5	40521.210	1.5
1268.1124	26.00	-4.82	44166.240	3.0	52049.820	2.0
1268.1815	23.00	-3.81	30120.780	2.5	38003.930	1.5
1268.2026	28.00	-2.16	42653.723	2.0	50536.742	1.0
1268.2057	24.00	-2.96	31028.330	2.0	38911.330	3.0
1268.2858	28.00	-.52	44314.980	4.0	52197.482	3.0
1268.2973	6.00	-4.36	78529.620	3.0	86412.050	2.0
1268.3086	6.00	-2.29	78529.620	3.0	86411.980	3.0
1268.3295	28.00	-2.35	51343.800	2.0	59226.030	1.0
1268.3456	25.00	-2.54	51718.220	1.5	59600.350	2.5
1268.3562	10.00	-.33	162435.678	1.0	170317.742	2.0
1268.3733	12.00	-1.77	53134.642	2.0	61016.600	2.0
1268.3733	12.00	-3.31	53134.642	2.0	61016.600	3.0
1268.3733	12.00	-.50	53134.642	2.0	61016.600	3.0
1268.4036	24.01	-4.28	59130.510	1.5	67012.280	2.5
1268.4470	28.01	-3.41	111783.790	3.5	119665.290	2.5
1268.4518	18.01	-2.72	184093.060	.5	191974.530	1.5
1268.4921	18.00	-1.47	114805.180	2.0	122686.400	2.0
1268.5243	18.00	-2.41	114805.180	2.0	122686.200	1.0
1268.5475	28.00	-2.55	42585.296	4.0	50466.172	4.0
1268.5597	15.00	-2.23	72741.600	1.5	80622.400	2.5
1268.5854	22.00	-3.71	40844.190	1.0	48724.830	1.0
1268.6201	28.00	-1.88	42656.317	1.0	50536.742	1.0
1268.6561	28.00	-1.60	42954.234	2.0	50834.435	2.0
1268.6643	22.00	-2.98	40844.190	1.0	48724.340	2.0
1268.8559	27.00	-1.93	43295.320	4.5	51174.280	5.5
1268.8624	22.00	-2.87	34327.960	1.0	42206.880	2.0
1268.8640	26.00	-3.77	44378.420	1.0	52257.330	0.0
1268.8675	7.00	-1.94	103622.480	.5	111501.368	1.5
1268.9202	10.00	-.94	150917.431	0.0	158795.992	1.0
1268.9687	19.00	-3.69	24720.170	1.5	32598.430	1.5
1268.9800	25.01	-3.04	68496.370	1.0	76374.560	2.0
1268.9897	19.00	-2.74	24720.170	1.5	32598.300	2.5
1268.9945	13.01	-1.50	138536.400	3.0	146414.500	3.0
1268.9945	13.01	-.54	138536.400	3.0	146414.500	4.0
1268.9945	13.01	-.74	138536.400	3.0	146414.500	4.0
1269.0106	13.01	-2.38	132213.200	1.0	140091.200	0.0
1269.0106	13.01	-1.99	132213.200	1.0	140091.200	1.0
1269.0106	13.01	-1.68	132213.200	1.0	140091.200	2.0
1269.0218	23.01	-4.79	64804.130	2.0	72682.060	2.0
1269.0412	23.02	-4.44	153288.000	1.5	161165.810	2.5
1269.0420	28.00	-1.35	42954.234	2.0	50832.039	3.0
1269.0795	22.00	-1.53	29661.232	1.0	37538.804	2.0
1269.1212	9.00	-.48	118405.267	.5	126282.580	1.5
1269.2007	23.00	-4.51	34486.800	2.5	42363.620	3.5
1269.2603	7.00	-2.86	96787.650	1.5	104664.100	1.5
1269.3328	13.01	-2.02	139588.700	4.0	147464.700	4.0
1269.3328	13.01	-2.16	139588.700	4.0	147464.700	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1269.3328	13.01	-.39	139588.700	4.0	147464.700	5.0
1269.3328	13.01	-4.58	139588.700	4.0	147464.700	5.0
1269.3328	13.01	-3.49	139588.700	4.0	147464.700	5.0
1269.3328	13.01	-.39	139588.700	4.0	147464.700	5.0
1269.3328	13.01	-3.78	139588.700	5.0	147464.700	4.0
1269.3328	13.01	-2.03	139588.700	5.0	147464.700	5.0
1269.3328	13.01	-2.14	139588.700	5.0	147464.700	5.0
1269.3328	13.01	-.31	139588.700	5.0	147464.700	6.0
1269.3328	13.01	-.49	139588.700	3.0	147464.700	4.0
1269.4440	27.00	-1.08	39649.160	3.5	47524.470	4.5
1269.4489	23.00	-2.21	31721.730	4.5	39597.010	4.5
1269.5230	27.00	-1.33	43295.320	4.5	51170.140	4.5
1269.5404	7.00	-2.61	107182.788	1.5	115057.500	1.5
1269.5939	26.00	-3.76	45294.830	5.0	53169.210	6.0
1269.6278	29.01	-3.29	130945.000	2.0	138819.170	3.0
1269.6359	29.01	-4.09	138177.220	2.0	146051.340	1.0
1269.7020	18.00	-2.01	114821.990	3.0	122695.700	4.0
1269.7181	24.00	-4.51	49477.040	1.0	57350.650	2.0
1269.7181	24.00	-4.06	49477.040	2.0	57350.650	2.0
1269.7674	17.00	-.05	94314.206	1.5	102187.510	2.5
1269.8084	28.01	-2.92	113177.610	3.5	121050.660	2.5
1269.8563	18.00	-3.61	118651.447	1.0	126524.200	0.0
1269.9036	28.01	-4.80	111783.790	3.5	119656.250	3.5
1269.9601	18.01	-.97	202253.590	1.5	210125.700	2.5
1269.9810	7.00	-1.30	105008.520	2.5	112880.500	2.5
1270.0322	22.00	-2.87	31914.277	5.0	39785.940	4.0
1270.0859	23.00	-6.38	8578.520	2.5	16449.850	2.5
1270.1811	25.01	-.62	109242.360	2.0	117113.100	3.0
1270.2300	18.00	-.38	107496.463	1.0	115366.900	1.0
1270.3441	21.00	-4.03	37039.770	2.5	44909.500	2.5
1270.3893	23.00	-4.63	17242.050	5.5	25111.500	4.5
1270.4023	7.00	-1.16	105008.520	2.5	112877.890	3.5
1270.4119	27.00	-2.73	43398.620	3.5	51267.930	4.5
1270.4377	25.01	-.56	109243.950	3.0	117113.100	3.0
1270.4377	25.01	-.36	109243.950	3.0	117113.100	4.0
1270.5605	28.01	-3.79	113321.950	4.5	121190.340	4.5
1270.6105	27.00	-2.52	44201.920	2.5	52070.000	2.5
1270.6687	28.00	-3.79	51124.800	3.0	58992.520	2.0
1270.7071	22.00	-2.61	37617.868	4.0	45485.350	5.0
1270.7247	26.00	-3.30	42784.387	6.0	50651.760	7.0
1270.7930	25.01	-1.40	109246.150	4.0	117113.100	3.0
1270.7930	25.01	-.58	109246.150	4.0	117113.100	4.0
1270.8092	25.01	-.16	109246.150	4.0	117113.000	5.0
1270.8341	18.00	-2.49	116660.054	1.0	124526.750	0.0
1270.8512	6.00	-3.53	80782.510	1.0	88649.100	0.0
1270.8894	14.00	-3.37	56780.427	1.0	64646.780	2.0
1270.8899	7.00	-1.52	96787.650	1.5	104654.000	.5
1270.9121	26.00	-3.49	44183.607	2.0	52049.820	2.0
1270.9252	26.00	-4.32	43763.938	1.0	51630.070	2.0
1270.9439	26.00	-3.99	45964.944	2.0	53830.960	3.0
1271.0031	28.01	-3.96	113225.060	.5	121090.710	.5
1271.0590	14.00	-2.89	57017.496	2.0	64882.800	2.0
1271.1453	9.00	-2.55	129937.330	1.5	137802.100	2.5
1271.1679	7.00	-1.72	96750.810	1.5	104615.440	1.5
1271.2035	18.00	-2.71	114821.990	3.0	122686.400	2.0
1271.2218	14.00	-1.75	49933.775	3.0	57798.072	2.0
1271.2535	18.01	-4.78	195866.760	1.5	203730.860	1.5
1271.2536	25.01	-1.80	109249.000	5.0	117113.100	4.0
1271.2551	6.00	-2.98	80782.510	1.0	88646.600	1.0
1271.2584	20.02	-1.81	382587.900	4.0	390451.970	3.0
1271.2697	25.01	-.76	109249.000	5.0	117113.000	5.0
1271.2859	25.01	.01	109249.000	5.0	117112.900	6.0
1271.3020	15.00	-1.25	69980.100	3.5	77843.900	2.5
1271.3069	27.00	-3.38	46562.870	1.5	54426.640	1.5
1271.4427	7.00	-2.63	105017.570	3.5	112880.500	2.5
1271.5931	21.00	-3.55	32659.210	1.5	40521.210	1.5
1271.6045	23.00	-1.65	29296.430	2.5	37158.360	1.5
1271.6724	10.01	-1.64	294086.490	1.5	301948.000	1.5
1271.6931	28.00	-2.21	44336.100	4.0	52197.482	3.0
1271.7355	24.00	-3.47	47125.700	3.0	54986.820	3.0
1271.8649	7.00	-2.49	105017.570	3.5	112877.890	3.5
1271.8666	7.00	-2.14	105017.570	3.5	112877.880	4.5
1271.8681	26.00	-4.36	45294.830	5.0	53155.130	4.0
1271.6827	28.01	-3.30	107082.210	2.5	114942.420	1.5
1271.8876	7.00	-.78	105008.520	2.5	112868.700	3.5
1271.9588	22.00	-2.62	38670.710	4.0	46530.450	4.0
1271.9621	9.01	-2.85	270508.290	2.0	278368.010	2.0
1272.0219	27.00	-2.11	28470.510	1.5	36329.860	2.5
1272.0801	6.00	-3.31	81311.010	0.0	89170.000	1.0
1272.1035	22.00	-3.98	37852.434	4.0	45711.280	4.0
1272.1433	28.01	-1.72	113321.950	4.5	121180.550	5.5
1272.2178	21.00	-3.43	32696.840	2.5	40554.980	2.5
1272.2226	29.01	-2.31	139028.200	2.0	146886.310	1.0
1272.2987	23.00	-2.08	31541.180	3.5	39398.820	3.5
1272.4315	23.00	-6.68	8715.720	3.5	16572.540	3.5
1272.4817	6.00	-3.37	80782.510	1.0	88639.020	1.0
1272.4833	29.01	-.30	139241.600	1.0	147098.100	0.0
1272.5105	26.00	-3.61	44183.607	2.0	52039.939	1.0
1272.5919	16.01	-1.50	156603.670	3.5	164459.500	2.5
1272.6210	27.00	-1.30	40345.950	2.5	48201.600	3.5
1272.6227	9.00	-2.84	129607.070	.5	137462.710	1.5
1272.6388	26.00	-3.47	45913.480	3.0	53769.020	4.0
1272.6632	9.00	-.94	129937.330	1.5	137792.720	2.5
1272.6648	23.02	-4.95	154480.500	4.5	162335.880	3.5
1272.6778	13.01	-3.29	138559.200	4.0	146414.500	3.0
1272.6778	13.01	-1.73	138559.200	4.0	146414.500	4.0
1272.6778	13.01	-1.87	138559.200	4.0	146414.500	4.0
1272.6778	13.01	-.20	138559.200	4.0	146414.500	5.0
1272.7453	26.00	-4.02	48928.423	2.0	56783.306	3.0
1272.7657	9.00	-2.68	118427.823	1.5	126282.580	1.5
1272.7721	7.00	-2.98	107628.283	1.5	115483.000	.5
1272.7721	7.00	-2.88	107628.283	1.5	115483.000	1.5
1272.7749	29.01	-3.79	129759.600	1.0	137614.300	0.0
1272.8192	22.00	-4.21	41170.003	3.0	49024.430	3.0
1272.8414	6.00	-3.77	80782.510	1.0	88636.800	2.0
1272.9159	18.00	-4.78	115366.900	1.0	123220.730	2.0
1272.9321	6.00	-2.96	81311.010	0.0	89164.740	1.0
1272.9419	22.00	-2.15	29971.078	4.0	37824.748	4.0
1272.9795	26.00	-1.74	43163.282	4.0	51016.720	5.0
1272.9937	26.00	-4.85	45428.385	4.0	53281.735	5.0
1272.9970	27.00	-4.45	43199.650	2.5	51052.980	3.5
1273.0262	10.01	-4.89	305566.940	1.5	313420.090	2.5
1273.0407	24.00	-1.89	49519.720	3.0	57372.780	4.0
1273.0617	7.00	-2.18	107037.069	2.5	114890.000	1.5
1273.0667	7.00	-1.03	96864.020	2.5	104716.920	3.5
1273.1315	15.00	-3.73	72741.600	1.5	80594.100	1.5
1273.1348	21.00	-3.54	32751.540	3.5	40604.020	3.5
1273.1639	14.01	-.99	113962.340	.5	121814.640	.5
1273.2385	18.01	-1.28	183090.810	1.5	190942.650	.5
1273.2585	7.00	-2.30	107628.283	1.5	115480.000	1.5
1273.2585	7.00	-3.31	107628.283	1.5	115480.000	.5
1273.2921	14.03	-1.28	328200.040	2.5	336051.550	2.5
1273.2921	14.03	.02	328200.040	3.5	336051.550	2.5
1273.2921	14.03	-.13	328200.040	2.5	336051.550	1.5
1273.3326	24.00	-2.43	49538.060	5.0	57389.320	6.0
1273.3367	18.00	-.58	105617.315	2.0	113468.550	2.0
1273.3537	7.00	-1.24	105017.570	3.5	112868.700	3.5
1273.3715	26.00	-2.20	43499.485	4.0	51350.505	4.0
1273.3845	25.02	-3.43	208819.640	3.5	216670.580	4.5
1273.3991	24.00	-2.33	46967.700	2.0	54818.550	2.0
1273.4769	9.00	-1.90	129937.330	1.5	137787.700	1.5
1273.5920	12.00	-2.52	46403.065	2.0	54252.726	2.0
1273.6944	28.01	-4.69	121090.710	.5	128939.740	1.5
1273.7561	8.01	-2.46	232480.100	.5	240328.750	.5
1273.7755	26.00	-3.95	46600.800	1.0	54449.330	1.0
1273.8406	22.00	-1.66	17540.205	3.0	25388.334	4.0
1273.8599	18.01	-1.79	147503.020	1.5	155351.030	1.5
1273.8681	14.00	-1.69	54871.031	1.0	62718.990	0.0
1273.8737	26.00	-2.83	43922.652	3.0	51770.577	3.0
1273.9310	26.00	-3.32	46313.610	2.0	54161.182	3.0
1273.9989	26.00	-4.50	46410.366	1.0	54257.520	2.0
1274.0205	12.00	-2.04	46403.065	2.0	54250.086	1.0
1274.0248	7.00	-1.87	107253.106	2.5	115100.100	2.5
1274.0271	26.00	-3.49	49850.610	3.0	57697.590	4.0
1274.0417	20.02	-.83	382565.100	5.0	390411.990	5.0
1274.1083	20.02	.98	382565.100	5.0	390411.580	6.0
1274.1549	26.00	-3.09	44411.137	1.0	52257.330	0.0
1274.2284	6.00	-2.49	81325.760	1.0	89171.500	0.0
1274.2577	23.00	-3.49	30094.520	1.5	37940.080	.5
1274.2674	29.01	-3.68	138261.830	3.0	146107.330	4.0
1274.2950	6.00	-4.05	80801.270	2.0	88646.600	1.0
1274.3178	27.00	-4.03	44857.570	.5	52702.760	1.5
1274.3285	28.00	-1.24	42621.048	3.0	50466.172	4.0
1274.3519	28.00	-1.98	51343.800	2.0	59188.780	3.0
1274.3698	24.00	-2.31	49538.060	5.0	57382.930	5.0
1274.4055	7.01	-2.19	203258.980	2.0	211103.630	3.0
1274.4085	18.00	-3.29	113426.050	2.0	121270.682	2.0
1274.4722	6.00	-2.62	81325.760	1.0	89170.000	1.0
1274.4998	24.00	-2.87	27728.870	2.0	35572.940	2.0
1274.5037	22.00	-1.74	20062.980	1.0	27907.026	2.0
1274.5274	7.01	-1.04	202861.360	3.0	210705.260	2.0
1274.5712	16.01	-2.74	156603.670	3.5	164447.300	2.5
1274.6138	10.00	-.19	161699.661	2.0	169543.029	3.0
1274.6224	18.00	-.75	107131.755	1.0	114975.070	1.0
1274.6330	23.00	-2.19	31398.090	2.5	39241.340	2.5
1274.6915	9.00	-2.12	129607.070	.5	137449.960	1.5
1274.7175	27.00	-4.21	46671.940	2.5	54514.670	3.5
1274.7338	25.00	-4.04	51638.170	2.5	59480.800	2.5
1274.7549	15.00	-.37	72493.800	1.5	80336.300	2.5
1274.7614	15.00	-1.15	67971.140	.5	75813.600	.5
1274.7651	13.00	-3.16	32435.435	1.5	40277.872	1.5
1274.8110	26.00	-3.41	43137.472	3.0	50979.627	4.0
1274.8183	26.01	-3.17	72043.210	1.5	79885.320	2.5
1274.9037	10.00	-.06	161701.451	3.0	169543.036	4.0
1274.9048	10.00	-1.50	161701.451	3.0	169543.029	3.0
1274.9142	24.00	-1.22	49519.720	3.0	57361.240	3.0
1274.9809	28.01	-4.72	121125.410	4.5	128966.520	5.5
1274.9834	13.00	-2.21	32436.778	2.5	40277.872	1.5
1275.0134	28.01	-4.91	120044.950	4.5	127885.860	4.5
1275.0215	28.00	-2.20	50689.490	2.0	58530.350	3.0
1275.0280	21.00	-2.44	17025.360	1.5	24866.180	1.5
1275.0672	22.00	-2.84	31373.801	3.0	39214.380	3.0
1275.0801	28.01	-4.42	130174.030	1.5	138014.530	2.5
1275.1744	22.00	-1.46	36414.470	3.0	44254.390	3.0
1275.1842	28.01	-4.21	121120.880	5.5	128960.740	6.5
1275.2761	10.00	-.90	161699.661	2.0	169538.956	2.0
1275.2773	10.00	-2.04	161699.661	2.0	169538.949	3.0
1275.3273	6.00	-3.00	81325.760	1.0	89164.740	1.0
1275.3387	26.00	-4.20	42859.756	2.0	50698.666	2.0
1275.3952	22.00	-1.77	29986.185	3.0	37824.748	4.0
1275.4103	22.00	-3.37	34078.580	3.0	41917.050	4.0
1275.4217	15.00	-3.03	68183.200	1.5	76021.600	1.5
1275.4314	6.00	-3.14	81311.010	0.0	89149.350	1.0
1275.5112	7.00	-1.70	105119.850	1.5	112957.700	1.5
1275.5112	7.00	-1.18	105119.850	1.5	112957.700	2.5
1275.5209	27.00	-4.25	47612.180	1.5	55449.970	2.5
1275.5275	6.00	-2.98	80801.270	2.0	88639.020	1.0
1275.5421	14.01	-.69	113976.980	1.5	121814.640	.5
1275.5674	10.00	-2.04	161701.451	3.0	169538.956	2.0
1275.5685	10.00	-.74	161701.451	3.0	169538.949	3.0
1275.5700	2.00	-2.03	186105.000	0.0	193944.632	0.0
1275.5753	22.00	-4.14	37852.434	4.0	45689.890	3.0
1275.6365	28.01	-4.11	115000.250	3.5	122837.330	4.5
1275.6511	24.00	-4.10	46967.700	2.0	54804.690	1.0
1275.6869	10.01	-4.76	305582.270	.5	313419.040	1.5
1275.7260	13.00	-2.46	32435.435	1.5	40271.965	.5
1275.7374	22.00	-3.16	29818.310	3.0	37654.770	2.0
1275.7407	6.00	-2.98	81325.760	1.0	89162.200	2.0
1275.7613	14.00	-3.07	56780.427	1.0	64616.740	2.0
1275.7962	26.00	-4.02	44183.607	2.0	52019.706	1.0
1275.8095	28.00	-3.33	50689.490	2.0	58525.507	1.0
1275.8270	26.00	-3.29	44378.420	1.0	52214.330	1.0
1275.8889	6.00	-3.13	80801.270	2.0	88636.800	2.0
1275.9011	26.00	-4.44	43499.485	4.0	51334.940	4.0
1275.9214	28.01	-4.47	121125.410	4.5	128960.740	5.5
1275.9686	22.00	-4.14	31805.940	2.0	39640.980	3.0
1275.9817	22.00	-4.30	33680.130	3.0	41515.090	4.0
1276.0207	24.00	-2.94	49538.060	5.0	57372.780	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1276.0361	26.00	-3.61	46720.824	4.0	54555.450	4.0
1276.0756	28.00	-3.28	44206.185	3.0	52040.568	2.0
1276.0992	7.00	-1.55	103667.130	1.5	111501.368	1.5
1276.1035	7.00	-3.78	107182.788	1.5	115017.000	.5
1276.1035	7.00	-2.47	107182.788	1.5	115017.000	1.5
1276.1271	26.00	-3.33	45913.480	3.0	53747.547	3.0
1276.1380	8.01	-.17	248009.100	1.5	255843.100	1.5
1276.1970	22.00	-4.75	26494.322	2.0	34327.960	1.0
1276.2651	28.01	-2.87	113623.100	.5	121456.320	1.5
1276.3059	13.02	.35	170637.350	.5	178470.320	1.5
1276.3151	10.00	-4.91	161701.451	3.0	169534.364	4.0
1276.3825	6.00	-2.79	80782.510	1.0	88615.010	1.0
1276.4285	10.00	-3.67	163657.268	1.0	171489.485	1.0
1276.4688	25.00	-1.91	51638.170	2.5	59470.140	3.5
1276.4737	26.01	-3.77	58631.650	4.5	66463.590	5.5
1276.5715	27.00	-2.32	44201.920	2.5	52033.260	1.5
1276.5981	18.00	-1.83	113426.050	2.0	121257.227	1.0
1276.6383	24.00	-1.98	49519.720	3.0	57350.650	2.0
1276.6546	10.00	-2.17	161699.661	2.0	169530.491	1.0
1276.6553	10.00	-3.13	161699.661	2.0	169530.487	2.0
1276.6824	7.00	-2.93	104996.240	1.5	112826.900	2.5
1276.6922	15.01	-1.80	130913.700	3.0	138744.300	3.0
1276.7138	17.00	-2.18	82918.893	2.5	90749.360	2.5
1276.7671	28.01	-4.21	130184.390	2.5	138014.530	2.5
1276.7984	18.00	-2.48	114805.180	2.0	122635.128	2.0
1276.8584	26.00	-3.73	46137.140	3.0	53966.720	2.0
1276.8878	29.01	-4.39	131312.700	3.0	139142.100	2.0
1276.9472	10.00	-1.98	161701.451	3.0	169530.487	2.0
1276.9525	10.00	-1.33	150772.112	1.0	158601.115	2.0
1276.9767	18.00	-1.53	116942.815	3.0	124771.670	2.0
1277.0314	7.00	-3.34	106980.480	.5	114809.000	.5
1277.1047	23.00	-4.57	20767.570	3.5	28595.640	3.5
1277.1191	14.00	-2.66	54313.818	1.0	62141.800	1.0
1277.1194	28.01	-4.26	107142.210	1.5	114970.190	.5
1277.1504	7.00	-1.66	96787.650	1.5	104615.440	1.5
1277.1521	27.00	-2.66	46454.950	1.5	54282.730	2.5
1277.1586	26.00	-4.66	40534.180	3.0	48361.920	4.0
1277.2402	24.00	-3.89	39158.630	4.0	46985.870	5.0
1277.2721	18.00	-1.97	113643.260	1.0	121470.304	0.0
1277.3201	7.00	-2.63	105119.850	1.5	112946.600	1.5
1277.4409	6.00	-2.80	81343.990	2.0	89170.000	1.0
1277.5601	28.00	-2.71	50142.800	3.0	57968.080	3.0
1277.7087	21.00	-4.69	32696.840	2.5	40521.210	1.5
1277.7544	20.02	.90	382587.900	4.0	390411.990	5.0
1277.8132	6.00	-2.79	80801.270	2.0	88625.000	3.0
1277.8361	6.00	-3.29	81325.760	1.0	89149.350	1.0
1277.8524	7.00	-1.41	105143.680	2.5	112967.170	3.5
1277.9014	21.00	-3.40	37086.310	1.5	44909.500	2.5
1277.9226	25.00	-4.70	45060.810	3.5	52883.870	2.5
1278.0566	6.00	-3.05	80782.510	1.0	88604.750	2.0
1278.0827	22.00	-3.20	39640.980	3.0	47463.060	4.0
1278.1530	7.00	-1.20	105143.680	2.5	112965.330	3.5
1278.2246	7.00	-1.76	107182.788	1.5	115004.000	2.5
1278.2592	20.01	-2.61	83540.000	4.5	91361.000	4.5
1278.2592	20.01	-.88	83540.000	4.5	91361.000	5.5
1278.2592	20.01	-.97	83540.000	3.5	91361.000	4.5
1278.2739	18.01	.62	181594.050	2.5	189414.960	3.5
1278.3000	6.00	-2.96	81343.990	2.0	89164.740	1.0
1278.3355	26.00	-4.27	47555.584	1.0	55376.117	1.0
1278.4000	26.00	-4.96	36940.600	2.0	44760.739	1.0
1278.5000	2.00	.38	186102.000	0.0	193923.666	0.0
1278.5028	8.02	-1.57	358667.400	1.0	366486.910	1.0
1278.5600	25.00	-4.81	57485.970	2.5	65305.130	3.5
1278.5846	7.00	-2.17	96864.020	2.5	104683.030	2.5
1278.6058	26.02	.73	190918.170	3.0	198737.050	4.0
1278.6074	26.00	-3.92	46313.610	2.0	54132.480	1.0
1278.6794	22.00	-2.19	34327.960	1.0	42146.390	1.0
1278.6875	7.00	-2.35	105008.520	2.5	112826.900	2.5
1278.6875	7.00	-3.05	105008.520	2.5	112826.900	3.5
1278.7154	6.00	-2.01	81343.990	2.0	89162.200	2.0
1278.8103	17.00	-3.22	83130.900	1.5	90948.530	1.5
1278.8168	27.00	-1.64	45971.190	3.5	53788.780	4.5
1278.8299	28.01	-3.69	113225.060	.5	121042.570	1.5
1278.8381	28.01	-4.22	113225.060	.5	121042.520	1.5
1278.8623	26.00	-3.54	43922.652	3.0	51739.964	2.0
1278.9297	6.00	-2.54	81325.760	1.0	89142.660	2.0
1278.9410	26.00	-1.63	40404.492	1.0	48221.323	1.0
1279.0300	2.00	-.10	186105.000	0.0	193923.425	0.0
1279.0330	8.00	-1.89	99680.968	1.0	107497.236	1.0
1279.0463	8.00	-1.67	99681.049	2.0	107497.236	1.0
1279.0696	10.00	-4.36	163657.268	1.0	171473.313	2.0
1279.0889	8.00	-2.37	99681.309	0.0	107497.236	1.0
1279.0917	28.01	-3.74	98467.250	3.5	106283.160	2.5
1279.1519	18.00	-1.97	114975.070	1.0	122790.612	0.0
1279.2079	12.01	-1.95	109062.340	3.5	116877.540	3.5
1279.2079	12.01	-.41	109062.340	3.5	116877.540	4.5
1279.2079	12.01	-.52	109062.340	2.5	116877.540	3.5
1279.2797	26.00	-2.49	44022.518	4.0	51837.279	3.0
1279.3300	3.00	.20	31283.000	0.0	39099.591	0.0
1279.3585	25.02	-4.42	208743.100	2.5	216557.380	3.5
1279.3667	29.01	-.96	133727.870	2.0	141542.100	2.0
1279.3690	22.00	-4.48	33700.874	4.0	41515.090	4.0
1279.4010	7.00	-2.69	105143.680	2.5	112957.700	1.5
1279.4010	7.00	-2.33	105143.680	2.5	112957.700	2.5
1279.4469	6.00	-2.82	80801.270	2.0	88615.010	1.0
1279.5455	18.00	-1.46	114821.990	3.0	122635.128	2.0
1279.5617	22.00	-3.00	34204.971	4.0	42018.010	5.0
1279.5733	7.00	-2.64	106996.032	1.5	114809.000	.5
1279.5830	22.00	-2.70	31489.451	4.0	39302.360	4.0
1279.6287	28.01	-4.27	122175.420	2.5	129988.050	2.5
1279.7793	6.00	-2.99	81343.990	2.0	89155.700	3.0
1279.8318	28.01	-4.98	121146.980	2.5	128958.370	3.5
1279.8941	22.00	-3.88	36351.430	5.0	44162.440	4.0
1279.8944	22.00	-3.22	31829.972	4.0	39640.980	3.0
1279.9121	23.00	-4.68	17181.980	4.5	24992.880	3.5
1279.9446	14.00	-1.67	53387.334	1.0	61198.036	0.0
1279.9817	26.00	-4.96	46744.975	3.0	54555.450	4.0
1280.0317	27.00	-4.35	46872.740	3.5	54682.910	4.5
1280.0760	24.00	-1.67	49573.030	4.0	57382.930	5.0
1280.1137	25.00	-2.91	51718.220	1.5	59527.890	1.5
1280.1694	7.00	-3.12	105017.570	3.5	112826.900	2.5
1280.1694	7.00	-3.25	105017.570	3.5	112826.900	3.5
1280.1792	23.00	-2.00	29418.170	3.5	37227.440	2.5
1280.2006	25.00	-3.78	51718.220	1.5	59527.360	.5
1280.2251	28.01	-4.16	131032.010	2.5	138841.000	3.5
1280.2670	18.00	-.26	105617.315	2.0	113426.050	2.0
1280.2919	17.00	-.63	83364.927	.5	91173.510	1.5
1280.3743	28.01	-3.49	98561.220	2.5	106369.300	1.5
1280.5843	29.01	-3.39	131312.700	3.0	139119.500	3.0
1280.7155	10.03	-4.56	635866.000	.5	643672.000	1.5
1280.7172	12.01	-2.10	109072.050	4.5	116878.040	4.5
1280.7172	12.01	-.36	109072.050	4.5	116878.040	5.5
1280.7172	12.01	-.45	109072.050	3.5	116878.040	4.5
1280.7239	26.00	-2.80	29356.780	2.0	37162.729	3.0
1280.7516	25.02	-.75	208751.600	4.5	216557.380	3.5
1280.7746	28.01	-4.38	130208.890	3.5	138014.530	2.5
1280.7927	6.00	-2.94	80801.270	2.0	88606.800	3.0
1280.7992	29.01	-4.96	137077.600	3.0	144883.090	2.0
1280.8205	6.00	-3.25	81343.990	2.0	89149.350	1.0
1280.8214	26.00	-1.48	40231.312	2.0	48036.667	2.0
1280.8448	7.00	-4.08	107182.788	1.5	114988.000	.5
1280.8448	7.00	-2.73	107182.788	1.5	114988.000	1.5
1280.8448	7.00	-2.04	107182.788	1.5	114988.000	2.5
1280.8484	18.00	-3.63	115366.900	1.0	123172.090	1.0
1280.8583	27.00	-3.04	46671.940	2.5	54477.070	3.5
1280.9485	18.00	-1.66	114805.180	2.0	122609.760	1.0
1280.9791	7.00	-2.98	107253.106	2.5	115057.500	1.5
1281.0006	22.00	-2.81	29818.310	3.0	37622.573	3.0
1281.0257	24.00	-3.72	46524.840	2.0	54328.950	3.0
1281.0313	18.00	-2.38	118407.494	1.0	126211.570	1.0
1281.0454	20.02	-2.19	385757.600	3.0	393561.590	4.0
1281.0766	27.00	-2.25	46454.950	1.5	54258.750	2.5
1281.1110	24.00	-4.34	46448.600	1.0	54252.190	2.0
1281.1193	12.01	-2.84	109074.000	5.5	116877.540	4.5
1281.1291	6.00	-2.24	80801.270	2.0	88604.750	2.0
1281.1308	12.01	-4.57	109074.070	4.5	116877.540	4.5
1281.1308	12.01	-2.93	109074.070	4.5	116877.540	3.5
1281.1357	21.00	-4.84	32751.540	3.5	40554.980	2.5
1281.1482	22.00	-1.82	17423.853	2.0	25227.217	3.0
1281.1750	12.01	-3.78	109072.050	3.5	116875.250	3.5
1281.1750	12.01	-2.24	109072.050	4.5	116875.250	3.5
1281.1750	12.01	-2.35	109072.050	3.5	116875.250	2.5
1281.1762	26.00	-4.27	44411.137	1.0	52214.330	1.0
1281.2210	7.00	-3.70	105143.680	2.5	112946.600	1.5
1281.2982	29.01	-4.23	129116.900	3.0	136919.350	3.0
1281.3130	6.00	-2.50	79310.850	2.0	87113.210	2.0
1281.3409	6.00	-2.61	80834.610	3.0	88636.800	2.0
1281.3505	18.00	-1.42	113468.550	2.0	121270.682	2.0
1281.3606	27.00	-3.99	44658.030	1.5	52460.100	2.5
1281.3639	8.01	-2.78	232526.700	1.5	240328.750	.5
1281.4132	6.00	-3.45	80782.510	1.0	88584.260	2.0
1281.5134	22.00	-4.52	31725.750	1.0	39526.890	2.0
1281.5136	26.00	-4.55	43079.013	1.0	50880.152	1.0
1281.5430	27.00	-3.96	43398.620	3.5	51199.580	3.5
1281.5692	13.01	-4.18	138496.700	1.0	146297.500	1.0
1281.6045	20.00	-2.03	31539.495	1.0	39340.080	2.0
1281.6047	14.00	-1.04	56503.346	2.0	64303.930	3.0
1281.6662	28.01	-3.58	107142.210	1.5	114942.420	1.5
1281.6678	18.01	-.59	191012.350	1.5	198812.550	2.5
1281.6875	7.00	-1.88	96864.020	2.5	104664.100	1.5
1281.7155	6.00	-1.96	81343.990	2.0	89143.900	3.0
1281.7166	28.00	-2.16	42954.234	2.0	50754.137	2.0
1281.7352	9.00	-1.94	130141.650	1.5	137941.440	2.5
1281.7418	24.00	-.86	49573.030	4.0	57372.780	4.0
1281.7733	22.00	-3.43	29818.310	3.0	37617.868	4.0
1281.7845	28.01	-3.81	109038.840	1.5	116838.330	1.5
1281.7894	27.00	-4.68	45904.680	1.5	53704.140	2.5
1281.9192	6.00	-4.95	81343.990	2.0	89142.660	2.0
1281.9196	28.00	-3.97	50789.500	4.0	58588.168	3.0
1281.9472	7.01	-2.65	203537.660	1.0	211336.160	1.0
1282.0618	26.00	-3.49	41130.620	1.0	48928.423	2.0
1282.1396	28.01	-4.80	121146.980	2.5	128944.310	2.5
1282.1672	22.00	-1.50	11776.806	4.0	19573.968	4.0
1282.2021	24.00	-3.21	47189.870	4.0	54986.820	3.0
1282.2267	24.00	-2.81	47021.750	1.0	54818.550	2.0
1282.2665	28.00	-1.20	44475.158	2.0	52271.716	2.0
1282.2728	9.00	-2.14	129659.500	3.5	137456.020	3.5
1282.2892	26.01	-2.94	92695.620	2.5	100492.040	3.5
1282.3287	9.00	-.59	129659.500	3.5	137455.680	4.5
1282.3402	18.00	-3.26	114805.180	2.0	122601.290	1.0
1282.3451	13.02	.05	170637.350	.5	178433.430	.5
1282.3867	20.00	-2.26	31539.495	1.0	39335.322	1.0
1282.4208	23.00	-2.37	15724.220	3.5	23519.840	4.5
1282.4692	18.00	-2.08	118407.494	1.0	126202.820	0.0
1282.4881	26.00	-3.84	24338.766	3.0	32133.977	2.0
1282.4883	20.02	-.75	385757.600	3.0	393552.810	3.0
1282.5172	10.00	-3.45	164285.882	0.0	172080.916	1.0
1282.5409	20.02	-1.55	331403.200	1.0	339198.090	1.0
1282.5595	26.00	-3.62	43499.485	4.0	51294.262	3.0
1282.5706	20.02	.81	385757.600	3.0	393552.310	4.0
1282.5831	17.00	-4.96	94314.206	1.5	102108.840	1.5
1282.6167	6.00	-2.96	79318.780	1.0	87113.210	2.0
1282.6439	26.00	-3.41	46889.126	4.0	54683.390	4.0
1282.6709	15.01	-2.44	130950.200	2.0	138744.300	3.0
1282.6834	14.00	-1.14	56503.346	2.0	64297.370	3.0
1282.7059	20.00	-2.74	31539.495	1.0	39333.382	0.0
1282.8023	22.00	-3.75	38451.298	2.0	46244.600	2.0
1282.9063	28.01	-3.44	107082.210	2.5	114874.880	2.5
1282.9722	6.00	-3.75	79310.850	2.0	87103.120	1.0
1283.0141	26.00	-4.20	42911.897	5.0	50703.912	5.0
1283.0429	9.00	-2.28	129659.500	3.5	137451.340	2.5
1283.0512	27.00	-1.78	48753.720	1.5	56545.510	2.5
1283.1437	22.00	-1.79	11531.760	2.0	19322.988	2.0
1283.1648	15.01	-.93	132133.200	3.0	139924.300	2.0
1283.2060	28.01	-4.59	101357.200	4.5	109148.050	4.5
1283.2818	6.00	-3.18	80834.610	3.0	88625.000	3.0
1283.2869	28.00	-5.00	42954.234	2.0	50744.593	1.0
1283.2983	18.00	-3.45	117563.020	0.0	125353.310	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1283.3164	27.00	-4.94	46375.170	1.5	54165.350	1.5
1283.3575	23.00	-4.93	34374.810	3.5	42164.740	3.5
1283.5106	18.00	-3.22	116999.389	2.0	124788.390	1.0
1283.5223	38.01	-3.00	67522.870	0.0	75313.931	0.0
1283.5640	18.00	-2.31	113468.550	2.0	121257.227	1.0
1283.5668	28.01	-4.23	130225.870	3.5	138014.530	2.5
1283.6245	18.02	-4.18	242923.960	1.0	250712.270	2.0
1283.6410	24.00	-1.55	49573.030	4.0	57361.240	3.0
1283.6624	24.00	-3.38	46637.210	3.0	54425.290	4.0
1283.6789	18.01	-2.05	206103.450	1.5	213891.430	2.5
1283.6822	28.01	-3.99	121178.560	3.5	128966.520	4.5
1283.7135	18.01	-2.79	206103.450	1.5	213891.220	1.5
1283.7514	26.01	-4.88	54902.420	1.5	62689.960	2.5
1283.7834	26.00	-2.14	50186.814	2.0	57974.160	2.0
1283.8360	26.00	-3.64	47092.693	3.0	54879.720	2.0
1283.8388	28.01	-4.39	130227.520	2.5	138014.530	2.5
1283.8685	28.01	-3.15	113407.310	2.5	121194.140	2.5
1283.9855	28.01	-4.45	128803.230	2.5	136589.350	3.5
1283.9905	20.02	-.64	385775.500	4.0	393561.590	4.0
1284.0053	9.00	-3.76	130016.100	2.5	137802.100	2.5
1284.0622	26.00	-1.44	39969.830	3.0	47755.485	3.0
1284.0713	13.01	-.92	142362.800	2.0	150148.400	2.0
1284.0713	13.01	-.19	142362.800	1.0	150148.400	2.0
1284.0713	13.01	-.38	142362.800	2.0	150148.400	3.0
1284.0713	13.01	-2.46	142362.800	3.0	150148.400	2.0
1284.0713	13.01	-1.29	142362.800	3.0	150148.400	3.0
1284.0713	13.01	.14	142362.800	3.0	150148.400	4.0
1284.0817	22.00	-.86	30039.211	5.0	37824.748	4.0
1284.0944	26.01	-4.42	54904.500	3.5	62689.960	2.5
1284.0993	28.01	-3.48	113408.710	1.5	121194.140	2.5
1284.1092	23.00	-3.65	34619.520	2.5	42404.890	3.5
1284.1257	14.01	-3.47	119578.490	3.5	127363.760	3.5
1284.1257	14.01	-1.93	119578.490	4.5	127363.760	3.5
1284.1257	14.01	-2.04	119578.490	3.5	127363.760	2.5
1284.1686	28.01	-4.11	113407.310	2.5	121192.320	3.5
1284.2775	27.00	-4.81	44480.140	2.5	52264.490	1.5
1284.2791	6.00	-2.81	79318.780	1.0	87103.120	1.0
1284.3006	18.01	-.71	196633.020	2.5	204417.230	1.5
1284.3167	22.00	-2.86	31628.668	5.0	39412.780	5.0
1284.3204	28.01	-4.63	121180.540	4.5	128964.630	4.5
1284.4112	9.00	-2.20	129659.500	3.5	137443.040	2.5
1284.4374	18.00	-1.81	116999.389	2.0	124782.770	1.0
1284.5019	6.00	-2.26	80801.270	2.0	88584.260	2.0
1284.5101	24.00	-3.84	47021.750	1.0	54804.690	1.0
1284.5118	23.00	-7.49	8578.520	2.5	16361.450	1.5
1284.5828	28.01	-4.46	121161.810	1.5	128944.310	2.5
1284.5993	26.00	-4.13	43922.652	3.0	51705.052	2.0
1284.6000	2.00	-.70	185565.000	0.0	193349.524	0.0
1284.6146	26.00	-4.39	43079.013	1.0	50861.320	2.0
1284.6630	26.00	-3.52	44285.436	2.0	52067.450	2.0
1284.6719	14.01	-.64	118523.120	1.5	126305.080	2.5
1284.6835	14.01	-.48	118523.190	2.5	126305.080	3.5
1284.6835	14.01	-1.78	118523.190	2.5	126305.080	2.5
1284.6950	18.01	-.47	182951.150	.5	190732.970	.5
1284.6967	23.00	-4.95	17116.920	3.5	24898.730	2.5
1284.7029	22.00	-1.67	11639.804	3.0	19421.576	3.0
1284.7043	10.00	-3.93	163707.721	1.0	171489.485	1.0
1284.7974	7.00	-1.89	106477.800	.5	114259.000	1.5
1284.8056	24.00	-1.49	41043.350	3.0	48824.500	4.0
1284.8205	22.00	-4.26	41255.400	4.0	49036.460	4.0
1284.8493	10.00	-4.36	163708.599	2.0	171489.485	1.0
1284.8666	26.00	-9.65	11976.239	4.0	19757.020	3.0
1284.9344	25.00	-4.50	51787.920	.5	59568.290	.5
1284.9533	22.00	-1.06	33700.874	4.0	41481.130	5.0
1284.9807	6.00	-2.96	81311.010	0.0	89091.100	1.0
1285.0022	6.00	-2.84	79323.160	0.0	87103.120	1.0
1285.0269	28.01	-4.35	121178.560	3.5	128958.370	3.5
1285.1657	9.00	-1.20	129659.500	3.5	137438.470	3.5
1285.2235	28.00	-2.76	50851.220	1.0	58629.840	2.0
1285.2929	15.01	-.86	131632.000	3.0	139410.200	2.0
1285.3375	28.01	-4.71	121161.810	1.5	128939.740	1.5
1285.3755	13.01	-2.04	138799.300	0.0	146577.000	1.0
1285.4251	17.01	-1.42	153571.000	1.0	161348.400	1.0
1285.4400	20.02	-2.19	385775.500	4.0	393552.810	3.0
1285.4830	27.00	-3.97	44857.570	.5	52634.620	.5
1285.4929	29.01	-4.44	110365.980	2.0	118142.970	3.0
1285.5227	20.02	-.74	385775.500	4.0	393552.310	4.0
1285.5231	26.00	-3.93	46672.523	0.0	54449.330	1.0
1285.5541	9.00	-4.82	130016.100	2.5	137792.720	2.5
1285.5927	28.00	-1.95	49327.560	3.0	57103.946	3.0
1285.5970	20.02	.91	385775.500	4.0	393551.860	5.0
1285.6119	22.00	-3.59	34535.040	2.0	42311.310	3.0
1285.6416	6.00	-2.89	80782.510	1.0	88558.600	1.0
1285.7460	22.00	-2.15	31373.801	3.0	39149.260	2.0
1285.8054	15.00	-4.72	68246.500	2.5	76021.600	1.5
1285.8353	26.00	-3.65	46600.800	1.0	54375.719	2.0
1285.8401	27.00	-2.87	43425.710	2.5	51200.600	1.5
1285.9000	17.00	-3.06	84132.262	2.5	91906.790	2.5
1285.9212	6.00	-2.76	81311.010	0.0	89085.410	1.0
1285.9443	28.00	-2.19	51343.800	2.0	59118.060	2.0
1285.9542	28.01	-4.51	121192.320	3.5	128966.520	4.5
1286.0088	27.00	-3.26	43425.710	2.5	51199.580	3.5
1286.0237	24.00	-2.09	21810.840	1.0	29584.620	2.0
1286.1528	22.00	-2.28	34170.950	0.0	41943.950	1.0
1286.1577	9.00	-3.50	130016.100	2.5	137789.070	3.5
1286.2537	24.00	-2.67	27728.870	2.0	35501.260	3.0
1286.2587	22.00	-3.88	39265.800	2.0	47038.160	3.0
1286.2612	18.00	-2.37	116942.815	3.0	124715.160	3.0
1286.2669	28.01	-4.66	121178.560	3.5	128950.870	3.5
1286.2718	18.00	-2.28	116999.389	2.0	124771.670	2.0
1286.2868	6.00	-1.87	80834.610	3.0	88606.800	3.0
1286.3662	24.00	-1.79	49617.610	5.0	57389.320	6.0
1286.3679	27.00	-4.94	47393.930	2.5	55165.630	2.5
1286.3977	27.00	-2.78	43398.620	3.5	51170.140	4.5
1286.4424	28.01	-2.77	113407.310	2.5	121178.560	3.5
1286.4705	24.00	-3.87	47047.470	2.0	54818.550	2.0
1286.4705	18.01	-3.18	206120.350	2.5	213891.430	2.5
1286.4838	10.03	-1.51	634413.000	2.5	642184.000	1.5
1286.5036	10.01	-1.47	246394.130	2.5	254165.010	1.5
1286.5053	18.01	-3.74	206120.350	2.5	213891.220	1.5
1286.5914	18.01	-3.69	206103.450	1.5	213873.800	2.5
1286.5947	28.01	-4.95	121180.540	4.5	128950.870	3.5
1286.6247	22.00	-2.41	29768.655	2.0	37538.804	2.0
1286.6262	6.00	-3.47	80834.610	3.0	88604.750	2.0
1286.6378	24.00	-4.22	47048.480	3.0	54818.550	2.0
1286.7785	10.01	-1.95	294086.490	1.5	301855.710	2.5
1286.8100	22.00	-3.29	41255.400	4.0	49024.430	3.0
1287.0042	12.00	-1.79	53134.642	2.0	60902.500	2.0
1287.0042	12.00	-3.22	53134.642	2.0	60902.500	3.0
1287.0042	12.00	-.53	53134.642	2.0	60902.500	3.0
1287.0552	27.00	-1.99	44394.470	3.5	52162.020	3.5
1287.0601	10.01	-2.41	246397.490	1.5	254165.010	1.5
1287.0800	17.01	-3.62	151019.000	2.0	158786.400	3.0
1287.0850	6.00	-1.03	78731.270	1.0	86498.640	2.0
1287.0999	29.01	-3.61	128569.600	2.0	136336.880	1.0
1287.0999	6.00	-3.84	78731.270	1.0	86498.550	1.0
1287.1111	7.00	-1.95	107182.788	1.5	114950.000	.5
1287.1111	7.00	-2.78	107182.788	1.5	114950.000	1.5
1287.2209	6.00	-2.36	80782.510	1.0	88549.060	1.0
1287.2220	17.00	-1.39	83894.037	3.5	91660.580	2.5
1287.2375	26.00	-3.92	45294.830	5.0	53061.280	5.0
1287.3038	28.01	-4.17	121192.320	3.5	128958.370	3.5
1287.3257	7.00	-1.39	103735.450	2.5	111501.368	1.5
1287.3336	18.00	-2.12	113426.050	2.0	121191.920	2.0
1287.3754	22.00	-3.92	38764.832	3.0	46530.450	4.0
1287.3797	10.00	-3.20	163707.721	1.0	171473.313	2.0
1287.4215	6.00	-4.11	81325.760	1.0	89091.100	1.0
1287.4248	24.00	-.73	49617.610	5.0	57382.930	5.0
1287.4612	13.01	-2.94	138811.900	1.0	146577.000	1.0
1287.4612	13.01	-2.73	138811.900	1.0	146577.000	0.0
1287.4612	13.01	-4.03	138811.900	1.0	146577.000	2.0
1287.4612	13.01	-2.47	138811.900	2.0	146577.000	1.0
1287.4612	13.01	-2.86	138811.900	2.0	146577.000	2.0
1287.4612	13.01	-2.11	138811.900	3.0	146577.000	2.0
1287.5153	9.00	-3.27	117872.916	1.5	125637.690	2.5
1287.5252	10.00	-3.53	163708.599	2.0	171473.313	2.0
1287.5740	22.00	-3.73	30060.328	4.0	37824.748	4.0
1287.5800	26.00	-2.91	44285.436	2.0	52049.820	2.0
1287.7830	24.00	-3.37	49598.080	2.0	57361.240	3.0
1287.8593	28.01	-3.04	113623.100	.5	121385.800	1.5
1287.8605	28.00	-2.65	42954.234	2.0	50716.927	1.0
1287.8792	25.00	-4.70	51718.220	1.5	59480.800	2.5
1287.9356	24.00	-2.37	49620.690	4.0	57382.930	5.0
1287.9423	28.01	-4.41	128827.150	3.5	136589.350	3.5
1287.9771	27.00	-1.93	44394.470	3.5	52156.460	4.5
1287.9793	26.00	-3.64	18378.187	2.0	26140.164	3.0
1287.9937	6.00	-1.20	80834.610	3.0	88596.500	4.0
1288.0999	6.00	-2.06	80782.510	1.0	88543.760	0.0
1288.1415	15.00	-4.93	68260.600	.5	76021.600	1.5
1288.1912	25.01	.95	100682.300	4.0	108443.000	5.0
1288.1995	7.00	-1.18	105119.850	1.5	112880.500	2.5
1288.3074	15.01	-2.64	132164.300	2.0	139924.300	2.0
1288.3655	6.00	-3.09	81325.760	1.0	89085.410	1.0
1288.4303	23.00	-4.16	34747.060	3.5	42506.320	4.5
1288.4568	25.01	.09	100682.300	4.0	108441.400	4.0
1288.4918	6.00	-2.30	80782.510	1.0	88541.400	2.0
1288.5291	20.00	-1.45	35730.454	2.0	43489.119	3.0
1288.5431	6.00	-3.08	79318.780	1.0	87077.360	0.0
1288.6960	27.00	-1.59	43295.320	4.5	51052.980	3.5
1288.7159	10.00	-4.44	151038.452	1.0	158795.992	1.0
1288.7292	14.02	-.05	234387.640	1.0	242145.100	1.0
1288.7508	6.00	-3.69	80801.270	2.0	88558.600	1.0
1288.8555	25.01	-1.09	100682.300	4.0	108439.000	3.0
1288.8588	27.00	-3.77	46032.100	4.5	53788.780	4.5
1288.9801	25.02	-3.02	208935.880	4.5	216691.830	5.5
1288.9951	6.00	-2.77	81325.760	1.0	89081.620	0.0
1289.0134	6.00	-3.79	81769.790	2.0	89525.540	1.0
1289.0549	13.01	-2.24	139588.700	4.0	147344.200	3.0
1289.0549	13.01	-2.86	139588.700	4.0	147344.200	3.0
1289.0549	13.01	-4.12	139588.700	3.0	147344.200	3.0
1289.0765	26.00	-3.37	44458.960	0.0	52214.330	1.0
1289.1098	24.00	-1.50	49617.610	5.0	57372.780	4.0
1289.1164	7.01	-.96	202170.630	1.0	209925.760	2.0
1289.1247	25.01	-4.50	62587.500	3.0	70342.580	3.0
1289.1364	22.00	-3.24	39526.890	2.0	47281.900	3.0
1289.1879	27.00	-4.31	46671.940	2.5	54426.640	1.5
1289.2207	26.00	-4.41	44285.436	2.0	52039.939	1.0
1289.2212	28.01	-3.94	113407.310	2.5	121161.810	1.5
1289.2345	28.01	-4.01	107082.210	2.5	114836.630	3.5
1289.2378	7.00	-3.10	106477.800	.5	114232.200	1.5
1289.2777	24.00	-.59	49635.160	6.0	57389.320	6.0
1289.2810	6.00	-2.29	81325.760	1.0	89079.900	2.0
1289.3287	26.00	-4.57	40207.120	3.0	47960.973	4.0
1289.3924	24.00	-3.28	46783.060	4.0	54536.530	5.0
1289.3957	18.01	-2.60	206120.350	2.5	213873.800	2.5
1289.4174	25.02	-1.01	208650.540	3.5	216403.860	2.5
1289.4207	25.01	.79	100688.100	3.0	108441.400	4.0
1289.4355	26.00	-4.79	46313.610	2.0	54066.821	2.0
1289.4540	28.01	-3.73	113408.710	1.5	121161.810	1.5
1289.4872	23.01	-8.31	26839.820	3.0	34592.720	2.0
1289.5281	22.00	-1.60	29907.273	2.0	37659.927	3.0
1289.5355	6.00	-4.26	81769.790	2.0	89522.400	2.0
1289.5421	24.00	-4.26	49598.080	2.0	57350.650	2.0
1289.6161	26.00	-1.54	39625.784	4.0	47377.909	4.0
1289.6220	24.00	-3.26	49620.690	4.0	57372.780	4.0
1289.6386	28.01	-4.84	121192.320	3.5	128944.310	2.5
1289.6522	18.00	-2.10	118459.662	1.0	126211.570	1.0
1289.7034	15.01	-2.04	130801.700	1.0	138553.300	2.0
1289.7034	15.01	-2.96	103756.900	1.0	111508.500	0.0
1289.7123	26.00	-4.05	42859.756	2.0	50611.303	3.0
1289.7184	6.00	-.90	78731.270	1.0	86482.780	2.0
1289.7334	7.00	-1.52	96864.020	2.5	104615.440	1.5
1289.8200	25.01	.24	100688.100	3.0	108439.000	3.0
1289.8210	7.00	-2.95	107253.106	2.5	115004.000	2.5
1289.8210	7.00	-1.59	107253.106	2.5	115004.000	3.5
1289.8865	15.01	-1.87	130993.800	3.0	138744.300	3.0
1289.9248	27.00	-4.13	46186.410	1.5	53936.680	2.5
1289.9764	25.00	-1.31	17052.290	4.5	24802.250	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1290.0280	6.00	-1.43	80834.610	3.0	88584.260	2.0
1290.0313	24.00	-4.65	46448.600	1.0	54198.230	1.0
1290.0363	17.01	-2.43	151019.000	2.0	158768.600	2.0
1290.0796	6.00	-2.04	81769.790	2.0	89519.130	3.0
1290.1021	18.00	-3.26	116942.815	3.0	124692.020	2.0
1290.1162	23.00	-1.36	15770.720	4.5	23519.840	4.5
1290.1196	25.01	-.79	100688.100	3.0	108437.200	2.0
1290.1540	16.00	-1.93	70163.700	1.0	77912.593	1.0
1290.1550	5.00	-.22	54767.633	1.5	62516.520	2.5
1290.1835	5.00	-.07	54767.804	2.5	62516.520	3.5
1290.1835	5.00	-1.37	54767.804	2.5	62516.520	2.5
1290.1945	38.01	-1.85	67563.150	0.0	75313.919	0.0
1290.2811	26.01	-4.01	72429.740	.5	80177.870	1.5
1290.2878	18.00	-1.97	114861.670	0.0	122609.760	1.0
1290.2929	26.00	-4.84	44022.518	4.0	51770.577	3.0
1290.3377	6.00	-1.73	80801.270	2.0	88549.060	1.0
1290.3410	28.00	-2.53	51124.800	3.0	58872.570	4.0
1290.3410	24.00	-1.65	49635.160	6.0	57382.930	5.0
1290.3585	22.00	-2.31	29912.262	3.0	37659.927	3.0
1290.3727	28.01	-4.99	109038.840	1.5	116786.420	.5
1290.4099	16.00	-1.46	70165.237	2.0	77912.593	1.0
1290.4193	30.02	-4.14	257566.100	1.0	265313.400	2.0
1290.4509	6.00	-3.57	81343.990	2.0	89091.100	1.0
1290.4859	13.01	-.26	142362.800	2.0	150109.700	3.0
1290.4859	13.01	-1.16	142362.800	3.0	150109.700	3.0
1290.5692	25.01	.59	100692.600	2.0	108439.000	3.0
1290.5892	25.00	-4.92	51638.170	2.5	59384.450	1.5
1290.7588	14.00	-3.25	50566.397	1.0	58311.659	0.0
1290.7680	22.00	-2.15	29914.720	3.0	37659.927	3.0
1290.7808	15.00	-3.96	68088.270	1.5	75833.400	2.5
1290.7914	22.00	-3.33	41170.003	3.0	48915.070	2.0
1290.7935	11.00	-1.83	30266.990	.5	38012.044	.5
1290.8342	28.01	-3.58	130751.030	5.5	138495.840	4.5
1290.8542	17.00	-.28	90948.530	1.5	98693.220	2.5
1290.8692	25.01	.21	100692.600	2.0	108437.200	2.0
1290.9070	20.00	-.49	35730.454	2.0	43474.827	2.0
1290.9525	23.00	-3.02	34619.520	2.5	42363.620	3.5
1291.0256	26.00	-3.89	47136.058	2.0	54879.720	2.0
1291.0309	6.00	-1.75	80801.270	2.0	88544.900	3.0
1291.0692	21.00	-4.24	31215.760	2.5	38959.160	3.5
1291.1095	18.00	-2.40	118459.662	1.0	126202.820	0.0
1291.1359	25.01	-.79	100692.600	2.0	108435.600	1.0
1291.1706	28.00	-4.95	47030.148	3.0	54772.940	3.0
1291.2014	10.00	-.52	150858.508	2.0	158601.115	2.0
1291.2210	18.01	-4.18	206148.940	3.5	213891.430	2.5
1291.2271	18.00	-1.69	118469.117	2.0	126211.570	1.0
1291.2343	9.02	-4.03	445006.130	2.5	452748.540	2.5
1291.2560	23.02	-4.60	152939.200	2.5	160681.480	3.5
1291.2810	28.01	-4.65	128853.910	4.5	136596.040	5.5
1291.3194	25.01	.36	100695.300	1.0	108437.200	2.0
1291.3194	15.00	-2.84	70391.600	2.5	78133.500	2.5
1291.3209	22.00	-4.27	40466.979	2.0	48208.870	3.0
1291.3594	28.01	-2.09	99340.550	3.5	107082.210	2.5
1291.3928	28.01	-1.84	110573.360	2.5	118314.820	2.5
1291.3995	6.00	-2.70	81343.990	2.0	89085.410	1.0
1291.4345	27.00	-2.93	46685.430	1.5	54426.640	1.5
1291.4512	6.00	-3.65	81769.790	2.0	89510.900	3.0
1291.4845	18.01	-4.71	206132.660	4.5	213873.570	3.5
1291.4945	28.00	-3.82	50789.500	4.0	58530.350	3.0
1291.5295	6.00	-3.10	81769.790	2.0	89510.430	2.0
1291.5446	24.00	-4.32	49620.690	4.0	57361.240	3.0
1291.5863	25.01	.06	100695.300	1.0	108435.600	1.0
1291.6097	18.01	-1.90	206120.350	2.5	213860.510	3.5
1291.6147	6.00	-2.76	80801.270	2.0	88541.400	2.0
1291.6414	25.00	-3.18	51787.920	.5	59527.890	1.5
1291.6464	25.00	-4.36	45130.160	4.5	52870.100	3.5
1291.6481	28.01	-3.80	105668.780	2.5	113408.710	1.5
1291.6914	28.01	-3.75	113407.310	2.5	121146.980	2.5
1291.6998	18.00	-1.67	114861.670	0.0	122601.290	1.0
1291.7181	28.01	-4.25	115108.090	2.5	122847.600	3.5
1291.7258	11.00	-1.53	30272.580	1.5	38012.044	.5
1291.7298	25.00	-2.94	51787.920	.5	59527.360	.5
1291.7397	18.00	-3.34	113426.050	2.0	121165.431	3.0
1291.7809	26.00	-4.67	26623.726	2.0	34362.860	1.0
1291.8817	28.01	-3.42	105668.780	2.5	113407.310	2.5
1291.9151	28.01	-4.90	130757.510	4.5	138495.840	4.5
1291.9235	28.01	-1.94	121115.590	1.5	128853.870	2.5
1291.9301	24.00	-3.10	41086.260	3.0	48824.500	4.0
1291.9518	6.00	-2.48	81343.990	2.0	89082.100	3.0
1291.9702	15.00	-.95	72884.400	2.5	80622.400	2.5
1291.9702	13.01	-4.62	138536.400	3.0	146274.400	2.0
1291.9991	22.00	-1.98	17369.590	1.0	25107.417	2.0
1292.0053	28.01	-4.82	128867.000	3.5	136604.790	3.5
1292.0136	25.02	-3.02	208819.640	3.5	216557.380	3.5
1292.0370	37.00	-1.20	20132.510	0.0	27872.226	0.0
1292.0440	16.00	-1.81	70163.700	1.0	77901.258	0.0
1292.0554	26.02	.62	190918.170	3.0	198655.660	3.0
1292.0821	29.01	-1.93	137077.600	3.0	144814.930	3.0
1292.1185	22.00	-3.89	22081.198	2.0	29818.310	3.0
1292.1673	7.00	-1.33	105143.680	2.5	112880.500	2.5
1292.1790	21.00	-4.25	37086.310	1.5	44823.060	1.5
1292.1806	24.00	-2.96	21847.880	2.0	29584.620	2.0
1292.1855	22.00	-4.69	29818.310	3.0	37555.021	3.0
1292.2040	22.01	-4.26	24961.340	1.5	32697.940	2.5
1292.2207	13.01	-.04	142607.000	2.0	150343.500	3.0
1292.3192	6.00	-3.87	81343.990	2.0	89079.900	2.0
1292.3911	28.01	-4.05	128853.870	2.5	136589.350	3.5
1292.3978	28.01	-4.53	128853.910	4.5	136589.350	3.5
1292.4890	7.00	-3.46	107253.106	2.5	114988.000	1.5
1292.4890	7.00	-3.96	107253.106	2.5	114988.000	2.5
1292.4890	7.00	-2.22	107253.106	2.5	114988.000	3.5
1292.5214	25.02	-2.12	208935.880	4.5	216670.580	4.5
1292.5933	26.00	-3.58	44285.436	2.0	52019.706	1.0
1292.6033	7.00	-.57	105143.680	2.5	112877.890	3.5
1292.6167	23.00	-7.74	8715.720	3.5	16449.850	2.5
1292.6468	23.01	-4.55	44657.990	2.0	52391.940	3.0
1292.6867	22.00	-4.88	33980.639	2.0	41714.350	2.0
1292.7136	28.01	-4.22	128862.490	4.5	136596.040	5.5
1292.7571	22.00	-4.30	17369.590	1.0	25102.880	2.0
1292.8139	27.00	-3.94	45971.190	3.5	53704.140	2.5
1292.8607	28.01	-3.71	107142.210	1.5	114874.880	2.5
1292.8900	3.00	-1.46	31283.000	0.0	39017.610	0.0
1292.9485	26.00	-4.58	45428.385	4.0	53160.530	3.0
1293.0597	28.01	-4.74	121692.550	4.5	129424.030	5.5
1293.0693	28.00	-2.81	50789.500	4.0	58520.923	5.0
1293.1066	7.00	-1.85	106477.800	.5	114209.000	.5
1293.1069	28.00	-.92	47030.148	3.0	54761.346	4.0
1293.1501	27.00	-1.45	45971.190	3.5	53702.130	3.5
1293.2103	28.01	-4.87	130765.260	3.5	138495.840	4.5
1293.2237	15.00	-.78	69924.700	2.5	77655.200	3.5
1293.2302	28.00	-3.36	22102.349	4.0	29832.810	3.0
1293.2672	28.01	-2.18	113172.960	4.5	120903.200	3.5
1293.2968	26.00	-1.68	40491.260	0.0	48221.323	1.0
1293.3023	14.02	-.35	234415.070	0.0	242145.100	1.0
1293.3215	18.00	-.50	107131.755	1.0	114861.670	0.0
1293.4094	18.01	-4.48	201608.820	3.5	209338.210	3.5
1293.4512	23.00	-1.45	31398.090	2.5	39127.230	1.5
1293.4562	26.00	-3.99	43499.485	4.0	51228.595	5.0
1293.4663	18.01	-3.13	201608.820	3.5	209337.870	4.5
1293.4746	15.02	-.67	215402.000	3.5	223131.000	3.5
1293.4746	15.02	.87	215402.000	3.5	223131.000	4.5
1293.4746	15.02	.76	215402.000	2.5	223131.000	3.5
1293.5014	6.00	-2.53	61981.820	1.0	69710.660	2.0
1293.5399	28.00	-3.93	50789.500	4.0	58518.110	4.0
1293.5751	6.00	-4.41	81325.760	1.0	89054.160	2.0
1293.5771	28.00	-3.38	46522.965	2.0	54251.353	3.0
1293.5851	28.00	-4.59	50039.180	2.0	57767.520	1.0
1293.5918	9.00	-1.84	130059.400	.5	137787.700	1.5
1293.6672	18.01	-4.06	206132.660	4.5	213860.510	3.5
1293.6855	18.01	-3.07	206132.660	4.5	213860.400	4.5
1293.6956	24.00	-1.97	21856.940	3.0	29584.620	2.0
1293.7090	28.01	-4.17	115120.000	2.5	122847.600	3.5
1293.7508	24.00	-4.10	46524.840	2.0	54252.190	2.0
1293.8329	28.01	-3.94	128862.490	4.5	136589.350	3.5
1293.8521	26.00	-4.62	45428.385	4.0	53155.130	4.0
1293.8530	27.00	-3.18	44394.470	3.5	52121.210	4.5
1293.8597	15.01	-2.14	132078.400	4.0	139805.100	3.0
1293.8613	18.01	-3.72	206132.660	4.5	213859.350	4.5
1293.8798	18.01	-1.99	206132.660	4.5	213859.240	5.5
1293.9144	14.00	-1.02	57198.027	3.0	64924.400	3.0
1293.9518	28.01	-4.03	128869.890	5.5	136596.040	6.5
1293.9967	16.00	-3.11	70163.700	1.0	77889.582	2.0
1294.0456	28.01	-4.74	113177.610	3.5	120903.200	3.5
1294.0891	15.00	-1.44	68088.270	1.5	75813.600	.5
1294.0960	14.00	-1.12	54871.031	1.0	62596.320	2.0
1294.1410	7.00	-1.21	105143.680	2.5	112868.700	3.5
1294.1563	22.00	-1.94	31489.451	4.0	39214.380	3.0
1294.1829	22.01	-4.09	63168.230	2.5	70893.000	3.5
1294.2064	18.01	-3.18	206148.940	3.5	213873.570	3.5
1294.2332	21.00	-4.36	18000.250	2.5	25724.720	3.5
1294.2542	16.00	-1.94	70165.237	2.0	77889.582	2.0
1294.3053	10.01	-2.15	294333.220	.5	302057.260	.5
1294.4159	27.00	-2.66	45971.190	3.5	53694.570	3.5
1294.4176	18.00	-1.86	113468.550	2.0	121191.920	2.0
1294.4184	28.00	-.87	42954.234	2.0	50677.599	3.0
1294.4359	18.00	-2.05	117563.020	0.0	125286.280	1.0
1294.5064	22.00	-4.40	40384.580	1.0	48107.420	2.0
1294.5533	24.00	-2.26	49650.220	3.0	57372.780	4.0
1294.5550	25.00	-4.89	51638.170	2.5	59360.720	2.5
1294.5885	28.01	-3.63	128867.000	3.5	136589.350	3.5
1294.5929	28.00	-1.19	44475.158	2.0	52197.482	3.0
1294.6281	26.00	-3.96	46410.366	1.0	54132.480	1.0
1294.6572	28.01	-3.61	98561.220	2.5	106283.160	2.5
1294.6640	15.00	-3.39	68183.200	1.5	75905.100	2.5
1294.6826	20.00	-3.36	36554.749	1.0	44276.538	0.0
1294.7025	24.00	-2.80	31009.000	3.0	38730.670	2.0
1294.8002	20.00	-3.99	40537.893	3.0	48258.980	2.0
1294.8437	26.00	-4.60	45509.112	1.0	53229.940	1.0
1294.8467	28.01	-2.95	110573.360	2.5	118294.170	3.5
1294.8501	26.00	-4.72	32873.623	4.0	40594.413	4.0
1294.8651	15.01	-.89	130801.700	1.0	138522.400	1.0
1294.9138	28.01	-3.19	129842.330	2.5	137562.740	3.5
1294.9289	9.00	-.91	130221.120	1.5	137941.440	2.5
1294.9843	6.00	-.91	77679.820	2.0	85399.810	2.0
1295.0061	27.00	-2.91	46562.870	1.5	54282.730	2.5
1295.1201	29.01	-1.43	139217.300	2.0	146936.480	2.0
1295.2174	15.01	-.85	131025.700	4.0	138744.300	3.0
1295.3182	28.01	-3.78	122270.050	3.5	129988.050	2.5
1295.3232	18.01	-2.62	172213.800	1.5	179931.770	1.5
1295.5363	14.02	-.36	234428.400	1.0	242145.100	1.0
1295.5465	27.00	-3.29	48828.870	2.5	56545.510	2.5
1295.5565	26.01	-2.87	79885.320	2.5	87601.900	1.5
1295.5578	16.00	-1.19	70173.010	3.0	77889.582	2.0
1295.6052	24.00	-4.17	47088.400	1.0	54804.690	1.0
1295.6321	20.01	-1.40	81498.000	.5	89214.130	.5
1295.6354	6.00	-2.11	80782.510	1.0	88498.620	2.0
1295.6630	18.00	-.11	104102.144	1.0	111818.090	1.0
1295.6924	18.00	-2.50	116999.389	2.0	124715.160	3.0
1295.7261	10.01	-4.64	313718.990	3.5	321434.560	2.5
1295.7715	17.01	-4.18	153633.100	1.0	161348.400	1.0
1295.7883	7.00	-1.62	106477.800	.5	114193.000	1.5
1295.7900	10.01	-3.50	313719.370	2.5	321434.560	2.5
1296.1394	22.00	-2.80	37976.780	2.0	45689.890	3.0
1296.1948	27.00	-2.23	43847.980	3.5	51560.760	2.5
1296.2066	27.00	-2.95	43555.220	3.5	51267.930	4.5
1296.2180	26.00	-3.90	45833.240	4.0	53545.882	3.0
1296.2587	29.01	-1.94	114511.440	1.0	122223.840	0.0
1296.3127	22.00	-4.06	34204.971	4.0	41917.050	4.0
1296.3427	8.01	.06	248185.300	2.5	255897.200	2.5
1296.4907	24.00	-4.02	49650.220	3.0	57361.240	3.0
1296.5933	18.01	-2.10	206148.940	3.5	213859.350	4.5
1296.6067	28.01	-3.81	121111.900	.5	128822.230	1.5
1296.6135	6.00	-3.90	80834.610	3.0	88544.900	3.0
1296.6336	6.00	-3.62	81343.990	2.0	89054.160	2.0
1296.7126	15.00	-4.27	72884.400	2.5	80594.100	1.5
1296.8169	10.01	-4.83	313718.990	3.5	321428.070	2.5
1296.8186	10.01	-3.77	313718.990	3.5	321428.060	3.5
1296.8400	2.00	-.38	186210.000	0.0	193921.051	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1296.8504	17.00	-2.26	84485.309	1.5	92194.190	1.5
1296.8674	27.00	-2.63	44555.710	1.5	52264.490	1.5
1296.8809	10.01	-4.78	313719.370	2.5	321428.070	2.5
1296.8826	10.01	-3.16	313719.370	2.5	321428.060	3.5
1296.9179	24.00	-2.31	49652.760	2.0	57361.240	3.0
1296.9347	18.01	-2.22	187589.230	2.5	195297.610	1.5
1296.9531	7.00	-1.05	104144.790	.5	111853.061	1.5
1297.0558	6.00	-2.01	61981.820	1.0	69689.480	1.0
1297.1312	7.00	-3.25	107182.788	1.5	114890.000	1.5
1297.1585	7.00	-2.21	105119.850	1.5	112826.900	2.5
1297.1669	17.01	-3.34	138623.000	1.0	146330.000	1.0
1297.2117	18.00	-2.23	116942.815	3.0	124649.549	3.0
1297.2275	28.01	-1.60	121115.590	1.5	128822.230	1.5
1297.2316	28.00	-2.29	44565.100	3.0	52271.716	2.0
1297.4380	38.01	.63	53286.310	0.0	60993.807	0.0
1297.4430	29.01	-2.79	110365.980	2.0	118071.340	1.0
1297.4575	17.00	-4.50	94482.236	2.5	102187.510	2.5
1297.4649	18.01	-2.26	191974.530	1.5	199679.760	2.5
1297.4765	20.00	-2.45	39340.080	2.0	47045.241	3.0
1297.5441	15.00	-1.24	67971.140	.5	75675.900	1.5
1297.5542	17.01	-2.22	151019.000	2.0	158723.700	1.0
1297.5567	20.00	-2.76	39335.322	1.0	47040.007	2.0
1297.5623	26.00	-4.89	40534.180	3.0	48238.832	2.0
1297.5912	25.00	-1.24	23296.670	3.5	31001.150	2.5
1297.6106	7.00	-4.85	104615.440	1.5	112319.805	1.5
1297.6300	10.01	-3.47	313718.990	3.5	321423.240	3.5
1297.6317	10.01	-3.16	313718.990	3.5	321423.230	4.5
1297.6384	24.00	-2.86	46967.700	2.0	54671.900	1.0
1297.6553	13.01	-.17	142607.000	2.0	150311.100	3.0
1297.6564	17.00	-1.03	83364.927	.5	91069.020	.5
1297.6940	10.01	-3.01	313719.370	2.5	321423.240	3.5
1297.6957	10.01	-2.84	313718.990	3.5	321422.850	4.5
1297.7109	14.00	-1.83	54528.220	2.0	62231.990	2.0
1297.7226	26.01	-3.09	96279.650	2.5	103983.350	3.5
1297.7226	17.01	-2.23	139350.000	1.0	147053.700	2.0
1297.7271	26.00	-3.11	40257.300	5.0	47960.973	4.0
1297.7562	13.01	-2.65	132213.200	1.0	139916.700	1.0
1297.7723	26.00	-4.10	40052.080	2.0	47755.485	3.0
1297.8540	14.02	.34	234442.180	2.0	242145.100	1.0
1297.8670	20.00	-3.12	39333.382	0.0	47036.225	1.0
1297.9189	26.00	-3.64	44511.795	2.0	52214.330	1.0
1297.9231	37.00	-1.65	20132.510	0.0	27837.127	0.0
1297.9517	24.00	-2.36	31028.330	2.0	38730.670	2.0
1297.9624	28.00	-2.32	47030.148	3.0	54732.425	2.0
1298.0067	10.00	-1.26	162830.703	3.0	170532.717	2.0
1298.1135	25.00	-3.06	51638.170	2.5	59339.550	3.5
1298.1939	20.00	-3.18	39335.322	1.0	47036.225	1.0
1298.2568	27.00	-3.02	44394.470	3.5	52095.000	3.5
1298.3091	22.00	-2.85	38544.380	3.0	46244.600	2.0
1298.3192	23.00	-1.33	31541.180	3.5	39241.340	2.5
1298.3585	20.00	-3.11	39340.080	2.0	47040.007	2.0
1298.4642	27.00	-4.03	46002.830	2.5	53702.130	3.5
1298.5000	2.00	-1.21	186102.000	0.0	193803.194	0.0
1298.5182	21.00	-4.10	31172.620	1.5	38871.600	2.5
1298.5976	22.00	-4.94	34204.971	4.0	41903.480	5.0
1298.6160	17.01	-4.46	137770.100	0.0	145468.500	1.0
1298.6376	28.00	-2.40	42767.900	3.0	50466.172	4.0
1298.6548	14.00	-3.12	54528.220	2.0	62226.390	1.0
1298.6953	25.00	-3.97	51718.220	1.5	59416.150	1.5
1298.7021	24.00	-3.71	49652.760	2.0	57350.650	2.0
1298.7540	22.00	-2.51	20209.444	2.0	27907.026	2.0
1298.7932	6.00	-3.07	80801.270	2.0	88498.620	2.0
1298.7949	21.00	-2.86	37125.720	.5	44823.060	1.5
1298.8303	20.01	-1.10	81517.000	1.5	89214.130	.5
1298.8701	7.00	-1.83	107253.106	2.5	114950.000	1.5
1298.8723	18.00	-1.14	113468.550	2.0	121165.431	3.0
1298.8894	28.01	-1.83	132311.980	4.5	140008.760	3.5
1298.9965	20.00	-4.24	39340.080	2.0	47036.225	1.0
1299.0176	27.00	-2.49	44568.470	2.5	52264.490	1.5
1299.0413	27.00	-4.02	46562.870	1.5	54258.750	2.5
1299.0446	18.01	-1.02	202429.840	3.5	210125.700	2.5
1299.1071	28.01	-3.64	122086.580	3.5	129782.070	3.5
1299.2055	22.00	-3.02	41341.553	5.0	49036.460	4.0
1299.2101	29.01	-3.04	139741.600	1.0	146936.480	2.0
1299.2607	23.00	-4.67	20767.570	3.5	28462.150	2.5
1299.2725	28.01	-4.11	130801.330	4.5	138495.840	4.5
1299.2928	20.02	.80	385867.200	3.0	393561.590	4.0
1299.3266	28.01	-2.73	132311.980	4.5	140006.170	4.5
1299.3570	26.02	-4.70	193599.740	1.0	201293.750	2.0
1299.3891	26.00	-3.78	46137.140	3.0	53830.960	3.0
1299.4144	28.01	-2.54	109038.840	1.5	116732.510	2.5
1299.4212	28.01	-.46	129842.330	2.5	137535.960	3.5
1299.4600	17.01	-1.46	151093.000	3.0	158786.400	3.0
1299.5529	24.00	-3.39	47125.700	3.0	54818.550	2.0
1299.5554	26.00	-4.63	43499.485	4.0	51192.320	4.0
1299.5597	18.01	-2.70	150474.900	1.5	158167.710	1.5
1299.5691	28.00	-3.99	42653.723	2.0	50346.477	2.0
1299.5899	18.00	-2.09	116999.389	2.0	124692.020	2.0
1299.6239	29.01	-4.45	131206.000	0.0	138898.430	1.0
1299.6746	28.01	-3.60	128827.150	3.5	136519.280	4.5
1299.7405	24.00	-3.93	46637.210	3.0	54328.950	3.0
1299.7405	27.00	-3.25	46002.830	2.5	53694.570	3.5
1299.7962	6.00	-3.87	79310.850	2.0	87002.260	3.0
1299.8507	14.00	-2.98	49850.830	2.0	57541.918	1.0
1299.9059	22.00	-3.75	38959.499	4.0	46650.260	3.0
1299.9373	26.00	-4.85	47755.485	3.0	55446.060	4.0
1299.9838	24.00	-2.77	40971.290	2.0	48661.590	3.0
1300.0075	28.00	-4.11	42656.317	1.0	50346.477	2.0
1300.0548	9.00	-3.74	129772.830	2.5	137462.710	1.5
1300.0741	26.00	-2.57	40842.130	3.0	48531.896	3.0
1300.0852	13.01	-.71	134917.300	1.0	142607.000	2.0
1300.1402	20.00	-1.41	35818.713	3.0	43508.088	4.0
1300.1461	28.01	-3.48	121180.550	5.5	128869.890	5.5
1300.1884	22.00	-4.36	40369.760	0.0	48058.850	1.0
1300.1985	26.00	-4.57	44378.420	1.0	52067.450	2.0
1300.2292	22.00	-1.00	29971.078	4.0	37659.927	3.0
1300.2493	22.00	-1.19	33680.130	3.0	41368.860	4.0
1300.3389	26.02	.47	190918.170	3.0	198606.370	2.0
1300.4032	28.01	-3.94	121111.900	.5	128799.720	.5
1300.4133	26.02	-4.11	193605.990	2.0	201293.750	2.0
1300.4303	28.01	-4.88	94067.140	1.5	101754.800	2.5
1300.4912	13.01	-.61	138811.900	3.0	146499.200	4.0
1300.5399	22.00	-2.72	17540.205	3.0	25227.217	3.0
1300.6299	26.01	-2.11	79885.320	2.5	87571.800	2.5
1300.6698	26.00	-3.76	24118.815	4.0	31805.059	3.0
1300.6850	17.00	-4.54	94314.206	1.5	102000.360	1.5
1300.7280	13.01	-1.14	138811.900	2.0	146497.800	3.0
1300.7280	13.01	-2.04	138811.900	3.0	146497.800	3.0
1300.7771	20.02	-.63	385867.200	3.0	393552.810	3.0
1300.7868	26.00	-4.66	47693.289	3.0	55378.842	2.0
1300.7906	9.02	-4.89	460141.630	2.5	467827.160	1.5
1300.8257	18.00	-.10	107289.747	2.0	114975.070	1.0
1300.8465	7.00	-2.06	106477.800	.5	114163.000	1.5
1300.8634	28.01	-1.36	109148.050	4.5	116833.150	4.5
1300.9142	13.01	-1.68	138811.900	2.0	146496.700	2.0
1300.9142	13.01	-.94	138811.900	1.0	146496.700	2.0
1300.9142	13.01	-3.22	138811.900	3.0	146496.700	2.0
1300.9188	14.00	-2.96	57198.027	3.0	64882.800	2.0
1300.9413	28.01	-4.68	113753.040	4.5	121437.680	5.5
1300.9819	28.01	-.39	129842.330	2.5	137526.730	2.5
1301.0277	28.01	-1.65	121115.590	1.5	128799.720	.5
1301.0481	7.00	-.62	104221.600	1.5	111905.609	2.5
1301.1235	22.00	-2.74	17423.853	2.0	25107.417	2.0
1301.1248	22.00	-1.95	29855.248	1.0	37538.804	2.0
1301.1817	7.00	-1.55	105143.680	2.5	112826.900	2.5
1301.1817	7.00	-3.05	105143.680	2.5	112826.900	3.5
1301.1868	9.00	-3.36	129772.830	2.5	137456.020	3.5
1301.1878	22.00	-2.59	11639.804	3.0	19322.988	2.0
1301.2478	26.02	-3.90	193610.920	3.0	201293.750	2.0
1301.2664	26.00	-4.41	47197.000	2.0	54879.720	2.0
1301.2868	25.00	-2.80	57305.620	3.5	64988.220	3.5
1301.3545	7.00	-2.07	106477.800	.5	114160.000	1.5
1301.3596	28.01	-4.83	128837.110	5.5	136519.280	4.5
1301.3834	6.00	-4.57	81769.790	2.0	89451.820	1.0
1301.3884	28.01	-4.54	113408.710	1.5	121090.710	.5
1301.3986	28.01	-4.22	121180.550	5.5	128862.490	4.5
1301.4087	27.00	-3.49	44480.140	2.5	52162.020	3.5
1301.4189	24.00	-3.00	31048.850	1.0	38730.670	2.0
1301.4741	26.00	-2.92	43922.652	3.0	51604.146	3.0
1301.5273	28.01	-1.32	129842.330	2.5	137523.510	3.5
1301.5675	26.00	-3.17	43022.969	4.0	50703.912	5.0
1301.5951	6.00	-1.26	78731.270	1.0	86412.050	2.0
1301.6680	8.01	.20	240328.750	.5	248009.100	1.5
1301.6782	20.02	.76	382791.500	3.0	390471.790	4.0
1301.7476	27.00	-4.44	47225.110	3.5	54904.990	2.5
1301.8036	28.01	-2.11	121190.340	4.5	128869.890	5.5
1301.8120	11.02	-3.14	435031.000	.5	442710.500	1.5
1301.8922	22.00	-3.68	17423.853	2.0	25102.880	2.0
1301.9155	22.00	-4.97	34078.580	3.0	41757.470	3.0
1301.9612	24.00	-1.66	40982.970	2.0	48661.590	3.0
1301.9629	6.00	-2.24	81769.790	2.0	89448.400	3.0
1301.9702	7.00	-4.87	104615.440	1.5	112294.007	.5
1301.9714	28.01	-4.19	105499.050	3.5	113177.610	3.5
1301.9799	9.00	-3.15	129772.830	2.5	137451.340	2.5
1302.0155	28.00	-3.86	49032.589	2.0	56710.889	2.0
1302.0494	25.00	-4.18	55405.140	2.5	63083.240	1.5
1302.1326	6.00	-4.65	81769.790	2.0	89447.400	2.0
1302.1681	15.00	-4.33	70391.600	2.5	78069.000	1.5
1302.2139	9.00	-3.26	129772.830	2.5	137449.960	1.5
1302.2156	22.00	-2.30	39785.940	4.0	47463.060	4.0
1302.2207	23.00	-1.21	31721.730	4.5	39398.820	3.5
1302.2529	28.01	-1.27	129842.330	2.5	137519.230	2.5
1302.2937	28.01	-2.59	121190.340	4.5	128867.000	3.5
1302.2937	27.00	-4.71	46260.020	1.5	53936.680	2.5
1302.4735	17.01	-1.86	151093.000	3.0	158768.600	2.0
1302.4854	27.00	-3.43	44394.470	3.5	52070.000	2.5
1302.5583	15.00	-.42	69980.100	3.5	77655.200	3.5
1302.5668	28.01	-4.80	121180.550	5.5	128855.600	6.5
1302.6298	26.00	-2.88	42859.756	2.0	50534.435	3.0
1302.6964	28.00	-3.20	50851.220	1.0	58525.507	1.0
1302.6992	22.00	-4.67	40384.580	1.0	48058.850	1.0
1302.7334	14.00	-2.84	54871.031	1.0	62545.100	1.0
1302.7563	17.00	-4.63	94314.206	1.5	101988.140	2.5
1302.7603	28.01	-4.36	105499.050	3.5	113172.960	4.5
1302.7756	20.02	.86	382798.500	4.0	390472.320	5.0
1302.7889	22.00	-3.07	29986.185	3.0	37659.927	3.0
1302.7974	22.00	-2.00	31628.668	5.0	39302.360	4.0
1302.8315	20.00	-2.60	37751.867	2.0	45425.358	1.0
1302.8427	18.00	-2.18	107131.755	1.0	114805.180	2.0
1302.8537	28.01	-3.15	121180.550	5.5	128853.910	4.5
1302.8657	20.02	-.78	382798.500	4.0	390471.790	4.0
1302.9523	14.00	-2.41	49060.601	1.0	56733.380	0.0
1303.0354	22.00	-4.86	39302.360	4.0	46974.650	5.0
1303.0592	28.01	-1.86	121190.340	4.5	128862.490	4.5
1303.0922	14.00	-2.40	49028.294	0.0	56700.250	1.0
1303.1017	15.01	-1.08	132133.200	3.0	139805.100	3.0
1303.1119	22.00	-3.55	34535.040	2.0	42206.880	2.0
1303.1764	27.00	-4.77	47225.110	3.5	54896.570	3.5
1303.1866	26.00	-3.57	44378.420	1.0	52049.820	2.0
1303.2479	26.00	-3.23	44166.240	3.0	51837.279	3.0
1303.3555	20.00	-.32	35818.713	3.0	43489.119	3.0
1303.3582	29.01	-1.54	137212.700	1.0	144883.090	2.0
1303.3888	9.00	-2.99	129772.830	2.5	137443.040	2.5
1303.4194	27.00	-4.12	46032.100	4.5	53702.130	3.5
1303.4687	17.00	-1.31	90749.360	2.5	98419.100	2.5
1303.4748	28.00	-1.08	47030.148	3.0	54699.852	3.0
1303.5044	17.00	-3.75	90749.360	2.5	98418.890	3.5
1303.5515	17.00	-4.84	94468.857	.5	102138.110	.5
1303.5911	8.01	.46	240516.280	1.5	248185.300	2.5
1303.5927	29.01	-.91	139217.300	2.0	146886.310	1.0
1303.6624	29.01	-4.63	131312.700	3.0	138981.300	2.0
1303.6753	14.00	-4.68	56978.256	1.0	64646.780	2.0
1303.7372	28.00	-2.53	42790.027	2.0	50458.187	1.0
1303.7668	22.00	-1.93	33700.874	4.0	41368.860	4.0
1303.8306	26.00	-4.41	45726.104	5.0	53393.715	4.0
1303.8886	20.02	-.68	382784.700	3.0	390451.970	3.0
1303.9172	18.00	-1.47	116942.815	3.0	124609.917	4.0
1303.9585	26.00	-2.40	45608.341	6.0	53275.200	7.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1303.9772	10.00	-2.12	163657.268	1.0	171324.017	1.0
1304.0495	26.00	-3.87	46889.126	4.0	54555.450	4.0
1304.0535	13.01	-3.04	138518.700	2.0	146185.000	2.0
1304.0535	13.01	-2.30	138518.700	2.0	146185.000	1.0
1304.0535	13.01	-4.58	138518.700	2.0	146185.000	3.0
1304.0655	25.00	-3.64	51718.220	1.5	59384.450	1.5
1304.0672	26.00	-3.62	47017.170	3.0	54683.390	4.0
1304.0925	17.00	-.73	84485.309	1.5	92151.380	.5
1304.1658	9.00	-2.52	129772.830	2.5	137438.470	3.5
1304.1709	29.01	-4.16	115639.020	2.0	123304.630	1.0
1304.2118	28.01	-3.32	128853.910	4.5	136519.280	4.5
1304.3955	23.00	-2.27	15688.800	2.5	23353.090	3.5
1304.5181	28.01	-3.25	121190.340	4.5	128853.910	4.5
1304.5351	20.00	-2.47	37298.287	2.0	44961.757	2.0
1304.5872	7.00	-1.96	103622.480	.5	111285.644	1.5
1304.6339	27.00	-3.95	43537.710	1.5	51200.600	1.5
1304.7917	9.00	-3.79	118405.267	.5	126067.230	.5
1304.8171	28.00	-1.36	36600.805	2.0	44262.619	2.0
1304.8382	6.00	-3.15	81769.790	2.0	89431.480	2.0
1304.8598	14.00	-2.80	51612.012	0.0	59273.575	1.0
1304.8673	26.00	-3.94	44378.420	1.0	52039.939	1.0
1304.9315	18.00	-2.98	116942.815	3.0	124603.957	2.0
1304.9966	25.02	-3.49	208743.100	2.5	216403.860	2.5
1305.0153	22.00	-2.55	39526.890	2.0	47187.540	2.0
1305.0460	20.02	-.18	382791.500	3.0	390451.970	3.0
1305.0494	9.00	-1.03	130141.650	1.5	137802.100	2.5
1305.1161	18.00	-1.28	114975.070	1.0	122635.128	2.0
1305.1550	23.00	-1.10	31937.180	5.5	39597.010	4.5
1305.1823	18.01	-1.29	204417.230	1.5	212076.900	2.5
1305.1826	7.00	-1.75	103667.130	1.5	111326.798	2.5
1305.2062	25.02	-.28	209032.300	5.5	216691.830	5.5
1305.2337	20.00	-1.98	37298.287	2.0	44957.655	1.0
1305.3186	25.01	-4.70	62572.200	2.0	70231.070	2.0
1305.3647	15.00	-3.45	68246.500	2.5	75905.100	2.5
1305.3715	18.01	-1.21	202467.140	1.5	210125.700	2.5
1305.3987	29.01	-.76	140984.200	1.0	148642.600	2.0
1305.4005	21.01	-3.63	55715.520	1.0	63373.910	2.0
1305.4533	23.02	-4.42	154265.200	3.5	161923.280	2.5
1305.4776	10.00	-1.60	162899.113	2.0	170557.050	1.0
1305.4959	23.00	-4.07	34747.060	3.5	42404.890	3.5
1305.5010	8.01	-1.08	248185.300	2.5	255843.100	1.5
1305.5573	23.00	-4.39	29418.170	3.5	37075.640	4.5
1305.5729	7.00	-2.04	107445.622	1.5	115103.000	2.5
1305.6364	18.00	-3.18	118407.494	1.0	126064.500	2.0
1305.6732	28.01	-3.91	128862.490	4.5	136519.280	4.5
1305.6800	25.02	-1.34	208650.540	3.5	216307.290	4.5
1305.6852	26.00	-4.84	46600.800	1.0	54257.520	2.0
1305.7124	28.01	-2.47	121180.550	5.5	128837.110	5.5
1305.7304	26.00	-4.96	46410.366	1.0	54066.821	2.0
1305.7546	26.00	-3.91	44411.137	1.0	52067.450	2.0
1305.7886	20.00	-1.34	35818.713	3.0	43474.827	2.0
1305.8015	56.01	.34	42355.182	0.0	50013.314	0.0
1305.8758	10.00	-1.83	163657.268	1.0	171312.870	0.0
1305.9376	26.00	-3.50	45913.480	3.0	53568.720	2.0
1305.9581	27.00	-4.34	45688.150	2.5	53343.270	1.5
1306.0096	17.00	-.56	84485.309	1.5	92140.127	1.5
1306.0468	6.00	-3.88	79310.850	2.0	86965.450	2.0
1306.0676	7.00	-2.67	107445.622	1.5	115100.100	2.5
1306.0877	27.00	-2.25	43398.620	3.5	51052.980	3.5
1306.1994	20.00	-2.29	35835.413	2.0	43489.119	3.0
1306.2036	26.00	-4.59	43325.946	3.0	50979.627	4.0
1306.2051	26.00	-3.72	44183.607	2.0	51837.279	3.0
1306.2396	20.02	-1.61	382798.500	4.0	390451.970	3.0
1306.2686	15.01	-.22	130174.300	2.0	137827.600	1.0
1306.3011	26.00	-3.62	46313.610	2.0	53966.720	2.0
1306.4564	22.00	-3.96	18145.400	2.0	25797.600	3.0
1306.4564	7.00	-2.37	106477.800	.5	114130.000	.5
1306.4718	24.00	-2.74	40906.460	1.0	48558.570	2.0
1306.4803	25.00	-3.26	51638.170	2.5	59290.230	3.5
1306.5623	26.01	-1.84	79885.320	2.5	87536.900	3.5
1306.6424	28.00	-3.51	43654.974	3.0	51306.085	3.0
1306.6493	9.00	-2.88	130141.650	1.5	137792.720	2.5
1306.6750	9.01	.46	270508.290	2.0	278159.210	3.0
1306.8048	18.00	-1.56	116999.389	2.0	124649.549	3.0
1306.8065	24.00	-2.50	47021.750	1.0	54671.900	1.0
1306.9346	27.00	-3.64	43911.360	1.5	51560.760	2.5
1306.9363	28.01	-3.39	128869.890	5.5	136519.280	4.5
1306.9372	26.00	-4.87	43499.485	4.0	51148.870	3.0
1306.9831	7.00	-2.70	103622.480	.5	111271.596	.5
1307.0508	28.00	-2.86	51343.800	2.0	58992.520	2.0
1307.0604	26.00	-4.93	46727.055	2.0	54375.719	2.0
1307.0664	14.00	-2.86	54871.031	1.0	62519.660	2.0
1307.0713	13.01	-2.11	138536.400	3.0	146185.000	2.0
1307.0713	13.01	-3.01	138536.400	3.0	146185.000	3.0
1307.0867	18.01	-2.48	192333.430	.5	199981.940	1.5
1307.0918	29.01	-2.76	129116.900	3.0	136765.380	4.0
1307.1568	29.01	-4.72	130945.000	1.0	138593.100	1.0
1307.1602	22.00	-3.50	36096.470	3.0	43744.550	4.0
1307.2580	26.00	-4.30	43922.652	3.0	51570.160	3.0
1307.3021	37.00	-2.06	23715.081	0.0	31364.422	0.0
1307.3345	26.01	-4.88	85048.560	1.5	92695.620	2.5
1307.3771	28.00	-2.84	50142.800	3.0	57789.611	4.0
1307.3841	28.01	-1.77	121190.340	4.5	128837.110	5.5
1307.4012	6.00	-4.85	79318.780	1.0	86965.450	2.0
1307.5072	9.00	-1.49	130141.650	1.5	137787.700	1.5
1307.5312	20.02	.66	385906.900	2.0	393552.810	3.0
1307.5397	18.01	-4.76	206245.570	3.5	213891.430	2.5
1307.5529	14.00	-.94	57198.027	3.0	64843.810	4.0
1307.5644	18.00	-1.61	118407.494	1.0	126053.210	2.0
1307.6338	6.00	-3.48	79310.850	2.0	86956.160	1.0
1307.6542	8.00	-2.14	96225.061	1.0	103870.252	0.0
1307.6924	8.00	-1.66	96225.061	1.0	103870.028	1.0
1307.7027	8.00	-1.44	96225.061	1.0	103869.968	2.0
1307.7262	22.00	-2.53	11776.806	4.0	19421.576	3.0
1307.7364	29.01	-1.19	139241.600	1.0	146886.310	1.0
1307.7751	14.00	-2.39	57017.496	2.0	64661.980	3.0
1307.7923	9.00	-.74	118936.797	1.5	126581.180	.5
1307.7963	27.00	-3.91	43555.220	3.5	51199.580	3.5
1307.8887	21.00	-1.05	17012.980	2.5	24656.800	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1307.9195	27.00	-2.26	43398.620	3.5	51042.260	2.5
1307.9691	28.01	-1.66	113407.310	2.5	121050.660	2.5
1308.0239	18.01	-.73	191169.520	1.5	198812.550	2.5
1308.0359	18.01	-1.65	151087.250	2.5	158730.210	2.5
1308.0906	18.01	-3.67	201608.820	3.5	209251.460	3.5
1308.1146	25.00	-4.56	51718.220	1.5	59360.720	2.5
1308.1608	24.00	-4.15	46783.060	4.0	54425.290	4.0
1308.1728	18.01	-.19	183090.810	1.5	190732.970	.5
1308.1807	22.00	-4.78	26892.926	3.0	34535.040	2.0
1308.1839	26.00	-3.34	43434.585	3.0	51076.680	4.0
1308.2087	28.01	-3.42	113408.710	1.5	121050.660	2.5
1308.2122	27.00	-3.83	46872.740	3.5	54514.670	3.5
1308.3097	28.01	-4.88	122140.710	4.5	129782.070	3.5
1308.3224	26.00	-4.08	44378.420	1.0	52019.706	1.0
1308.3423	22.01	-3.66	24961.340	1.5	32602.510	1.5
1308.3509	14.02	-1.56	249774.480	2.0	257415.600	2.0
1308.3509	14.02	-.83	249774.480	2.0	257415.600	1.0
1308.3509	14.02	-3.11	249774.480	2.0	257415.600	3.0
1308.3851	22.00	-2.47	39640.980	3.0	47281.900	3.0
1308.3886	14.02	-.66	249774.700	3.0	257415.600	2.0
1308.3886	14.02	-1.56	249774.700	3.0	257415.600	3.0
1308.4057	15.01	-2.23	132164.300	2.0	139805.100	3.0
1308.4364	14.02	-.50	249774.980	4.0	257415.600	3.0
1308.4671	22.00	-4.64	40466.979	2.0	48107.420	2.0
1308.5050	29.01	-3.96	117928.480	1.0	125568.700	1.0
1308.5443	22.00	-4.19	17995.750	0.0	25635.740	1.0
1308.5889	18.01	-5.00	201608.820	3.5	209248.550	2.5
1308.6028	14.00	-2.56	49060.601	1.0	56700.250	1.0
1308.6112	15.01	-1.25	130913.700	3.0	138553.300	2.0
1308.6430	20.00	-1.33	35835.413	2.0	43474.827	2.0
1308.6442	9.00	-.82	118427.823	1.5	126067.230	.5
1308.6745	29.01	-2.58	115665.400	1.0	123304.630	1.0
1308.6797	28.01	-1.30	121227.800	2.5	128867.000	3.5
1308.7362	27.00	-2.28	43921.890	2.5	51560.760	2.5
1308.7682	26.00	-3.17	44411.137	1.0	52049.820	2.0
1308.7773	9.00	-1.66	130149.070	.5	137787.700	1.5
1308.8023	14.00	-4.78	56978.256	1.0	64616.740	2.0
1308.8150	22.00	-3.48	18061.540	1.0	25699.950	2.0
1308.8373	25.02	-.01	209032.300	5.5	216670.580	4.5
1308.9093	28.01	-1.88	121180.550	5.5	128818.410	6.5
1308.9230	28.00	-1.87	47030.148	3.0	54667.928	4.0
1308.9281	28.01	-4.22	115209.850	3.5	122847.600	3.5
1309.0207	29.01	-4.25	129116.900	3.0	136754.110	2.0
1309.0562	18.00	-2.22	117151.387	1.0	124788.390	1.0
1309.0697	26.00	-4.88	40894.972	2.0	48531.896	3.0
1309.0749	7.00	-2.31	107253.106	2.5	114890.000	1.5
1309.1252	38.01	-.69	71065.800	0.0	78704.489	0.0
1309.1252	38.01	-1.99	71065.800	0.0	78704.489	0.0
1309.1938	18.01	-3.48	206255.230	2.5	213891.430	2.5
1309.2298	18.01	-4.82	206255.230	2.5	213891.220	1.5
1309.2590	27.00	-3.37	47225.110	3.5	54860.930	4.5
1309.3550	28.01	-2.32	113407.310	2.5	121042.570	1.5
1309.3636	28.01	-4.87	113407.310	2.5	121042.520	1.5
1309.3927	18.01	-4.90	195866.760	1.5	203501.800	2.5
1309.4510	30.02	-3.10	257678.700	2.0	265313.400	2.0
1309.4528	18.00	-1.68	114975.070	1.0	122609.760	1.0
1309.4682	17.01	-3.29	151134.000	1.0	158768.600	2.0
1309.5094	17.00	-.14	90749.360	2.5	98383.720	3.5
1309.5951	28.01	-2.91	113408.710	1.5	121042.570	1.5
1309.6390	10.00	-1.90	162899.113	2.0	170532.717	2.0
1309.6486	28.00	-1.13	47139.392	2.0	54772.940	3.0
1309.6723	26.00	-4.59	51076.680	4.0	58710.090	3.0
1309.7358	25.02	-.46	208650.540	3.5	216283.580	3.5
1309.7427	6.00	-4.59	79323.160	0.0	86956.160	1.0
1309.7571	22.00	-4.27	37852.434	4.0	45485.350	5.0
1309.7607	26.00	-4.94	45428.385	4.0	53061.280	5.0
1309.8453	26.00	-4.12	45913.480	3.0	53545.882	3.0
1309.8487	28.00	-1.89	44565.100	3.0	52197.482	3.0
1309.8842	26.00	-1.43	40404.492	1.0	48036.667	2.0
1309.9349	26.00	-3.57	46137.140	3.0	53769.020	4.0
1309.9948	22.00	-2.62	29907.273	2.0	37538.804	2.0
1310.0001	22.00	-2.19	34327.960	1.0	41959.460	0.0
1310.0068	7.00	-1.62	104221.600	1.5	111853.061	1.5
1310.0104	21.00	-2.03	17025.360	1.5	24656.800	1.5
1310.0104	21.00	-1.29	17025.360	1.5	24656.800	.5
1310.0202	18.00	-1.99	117151.387	1.0	124782.770	1.0
1310.0870	17.00	-.77	94314.206	1.5	101945.200	.5
1310.0870	17.00	-.01	94314.206	1.5	101945.200	1.5
1310.1289	25.01	-4.87	66929.220	2.0	74559.970	3.0
1310.2058	14.00	-1.88	49060.601	1.0	56690.903	2.0
1310.2603	14.00	-3.32	57017.496	2.0	64647.480	3.0
1310.3806	14.00	-2.78	57017.496	2.0	64646.780	2.0
1310.4517	23.00	-1.55	15724.220	3.5	23353.090	3.5
1310.5565	24.00	-2.05	40930.310	1.0	48558.570	2.0
1310.5617	25.00	-4.30	51787.920	.5	59416.150	1.5
1310.5617	18.01	-4.65	206245.570	3.5	213873.800	2.5
1310.6012	18.01	-4.71	206245.570	3.5	213873.570	3.5
1310.6905	28.01	-3.50	115209.850	3.5	122837.330	4.5
1310.7005	18.00	-1.84	113643.260	1.0	121270.682	2.0
1310.7266	27.00	-4.11	43425.710	2.5	51052.980	3.5
1310.7462	26.00	-1.92	50186.814	2.0	57813.970	3.0
1310.7875	26.00	-3.19	45726.104	5.0	53353.020	6.0
1310.8517	22.00	-3.58	29912.262	3.0	37538.804	2.0
1310.8603	17.00	-2.94	88080.042	2.5	95706.534	1.5
1310.9071	18.00	-1.98	114975.070	1.0	122601.290	1.0
1310.9085	7.00	-2.39	107182.788	1.5	114809.000	.5
1310.9277	28.01	-2.23	121240.900	3.5	128867.000	3.5
1310.9329	28.01	-1.26	121227.800	2.5	128853.870	2.5
1310.9793	13.01	-1.91	138559.200	4.0	146185.000	3.0
1311.1288	9.01	-2.05	269563.930	2.0	277188.860	1.0
1311.2114	24.00	-2.77	47021.750	1.0	54646.200	0.0
1311.2148	24.00	-3.75	47047.470	2.0	54671.900	1.0
1311.2630	28.01	-4.81	109269.830	1.5	116893.980	2.5
1311.2743	22.00	-1.13	29914.720	3.0	37538.804	2.0
1311.2768	17.00	-1.32	90749.360	2.5	98373.430	2.5
1311.3542	24.00	-3.24	35501.260	3.0	43124.880	2.0
1311.4608	38.01	-.75	71065.800	0.0	78690.885	0.0
1311.5021	28.01	-3.55	112422.190	5.5	120044.950	4.5
1311.6449	27.00	-1.49	28470.510	1.5	36092.440	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1311.6518	20.02	-2.79	362893.470	2.0	370515.360	3.0
1311.7034	28.01	-1.86	121240.900	3.5	128862.490	4.5
1311.7157	12.00	-1.93	49346.729	1.0	56968.248	2.0
1311.7189	25.02	-2.33	208935.880	4.5	216557.380	3.5
1311.7840	12.00	-2.65	53134.642	2.0	60755.764	2.0
1311.7840	12.00	-3.96	53134.642	2.0	60755.764	3.0
1311.7840	12.00	-1.39	53134.642	2.0	60755.764	3.0
1311.9009	18.00	-1.50	118469.117	2.0	126089.560	3.0
1311.9284	18.00	-2.69	117151.387	1.0	124771.670	2.0
1311.9708	28.00	-2.38	42656.317	1.0	50276.354	0.0
1312.0369	26.00	-3.20	43079.013	1.0	50698.666	2.0
1312.1958	38.01	.69	53372.970	0.0	60993.784	0.0
1312.1958	38.01	-.61	53372.970	0.0	60993.784	0.0
1312.2251	28.01	-3.82	91800.050	4.5	99418.610	3.5
1312.2322	13.00	-1.65	38929.405	1.5	46547.924	2.5
1312.2330	7.00	-2.39	103667.130	1.5	111285.644	1.5
1312.2423	17.00	-1.94	83130.900	1.5	90749.360	2.5
1312.2630	18.01	-3.39	206255.230	2.5	213873.570	3.5
1312.2699	15.00	-3.79	74271.800	1.5	81890.100	2.5
1312.2802	24.00	-4.73	41043.350	3.0	48661.590	3.0
1312.3745	14.00	-4.62	56780.427	1.0	64398.120	2.0
1312.3974	10.01	-2.50	276276.850	1.5	283894.410	.5
1312.4234	14.00	-2.49	49850.830	2.0	57468.239	2.0
1312.5697	23.00	-2.34	34747.060	3.5	42363.620	3.5
1312.5714	27.00	-4.76	43425.710	2.5	51042.260	2.5
1312.6152	10.00	-1.85	163707.721	1.0	171324.017	1.0
1312.6679	22.00	-3.29	34327.960	1.0	41943.950	1.0
1312.7666	10.00	-1.43	163708.599	2.0	171324.017	1.0
1312.8007	9.01	-1.62	269573.640	1.0	277188.860	1.0
1312.8420	24.00	-4.96	46637.210	3.0	54252.190	2.0
1312.8489	18.01	-3.34	206245.570	3.5	213860.510	3.5
1312.8524	27.00	-3.46	43555.220	3.5	51170.140	4.5
1312.8679	18.01	-3.19	206245.570	3.5	213860.400	4.5
1312.8765	10.01	-2.08	294333.220	.5	301948.000	1.5
1312.8886	25.00	-3.54	57305.620	3.5	64920.330	3.5
1312.9731	17.00	-.47	84988.480	1.5	92602.700	.5
1313.0167	18.00	-1.59	113643.260	1.0	121257.227	1.0
1313.0174	13.00	-1.49	38933.961	2.5	46547.924	3.5
1313.0174	13.00	-2.80	38933.961	2.5	46547.924	2.5
1313.0835	14.00	-1.75	54528.220	2.0	62141.800	1.0
1313.1789	14.00	-1.19	56690.903	2.0	64303.930	3.0
1313.1818	28.01	-2.51	121240.900	3.5	128853.910	4.5
1313.1887	28.01	-2.86	121240.900	3.5	128853.870	2.5
1313.4078	17.01	-4.61	161634.900	2.0	169246.600	1.0
1313.4164	26.00	-3.77	46313.610	2.0	53925.260	1.0
1313.4682	22.00	-4.35	34535.040	2.0	42146.390	1.0
1313.4942	20.00	-.17	35896.889	4.0	43508.088	4.0
1313.5211	26.00	-3.14	42911.897	5.0	50522.940	6.0
1313.5648	27.00	-2.94	46671.940	2.5	54282.730	2.5
1313.6309	26.00	-4.19	46137.140	3.0	53747.547	3.0
1313.6908	24.00	-2.49	21810.840	1.0	29420.900	1.0
1313.6925	29.01	-2.44	133594.050	3.0	141204.100	3.0
1313.8099	25.00	-4.73	50012.530	2.5	57621.900	1.5
1313.9482	26.00	-3.58	44411.137	1.0	52019.706	1.0
1313.9498	22.00	-4.41	36065.750	3.0	43674.310	4.0
1314.0603	20.02	-.18	382784.700	3.0	390392.620	3.0
1314.0947	26.00	-4.75	47271.999	1.0	54879.720	2.0
1314.2106	27.00	-2.11	46329.630	2.5	53936.680	2.5
1314.2763	25.00	-4.43	50099.160	1.5	57705.830	.5
1314.3113	14.00	-1.67	56690.903	2.0	64297.370	3.0
1314.3125	27.00	-3.55	44658.030	1.5	52264.490	1.5
1314.5090	26.00	-3.45	33412.706	3.0	41018.029	2.0
1314.5165	18.01	-4.64	206255.230	2.5	213860.510	3.5
1314.5338	29.01	-.95	139331.300	3.0	146936.480	2.0
1314.5391	10.00	-2.16	163707.721	1.0	171312.870	0.0
1314.5929	18.00	-1.73	118459.662	1.0	126064.500	2.0
1314.6012	23.00	-2.69	36461.260	2.5	44066.050	3.5
1314.6012	23.00	-4.29	36461.260	3.5	44066.050	3.5
1314.6105	18.00	-4.64	117183.654	2.0	124788.390	1.0
1314.6396	18.00	-3.54	116999.389	2.0	124603.957	2.0
1314.6572	7.00	-1.93	103667.130	1.5	111271.596	.5
1314.6795	26.00	-2.63	44166.240	3.0	51770.577	3.0
1314.7775	17.00	-4.46	91089.450	3.5	98693.220	2.5
1314.7806	26.00	-1.60	43499.485	4.0	51103.237	5.0
1314.8133	17.00	-3.43	91089.450	3.5	98693.013	3.5
1314.8934	15.01	-1.41	130950.200	2.0	138553.300	2.0
1314.9771	28.00	-4.00	48671.900	3.0	56274.516	2.0
1314.9823	26.00	-4.64	46888.494	2.0	54491.080	3.0
1315.0819	6.00	-3.96	79310.850	2.0	86912.860	1.0
1315.1771	18.01	-3.20	159706.460	.5	167307.920	.5
1315.2359	20.02	-3.03	382791.500	3.0	390392.620	3.0
1315.2394	24.00	-1.85	40906.460	1.0	48507.560	1.0
1315.2743	14.00	-2.23	39683.163	0.0	47284.061	1.0
1315.2920	28.00	-2.86	50142.800	3.0	57743.596	3.0
1315.3314	22.00	-2.45	34327.960	1.0	41928.528	2.0
1315.3570	25.02	-1.66	209091.410	5.5	216691.830	5.5
1315.3858	18.00	-1.60	113468.550	2.0	121068.804	1.0
1315.4530	14.00	-2.68	53362.240	3.0	60962.105	2.0
1315.4782	24.00	-1.91	41224.780	4.0	48824.500	4.0
1315.4868	20.02	.61	382852.300	2.0	390451.970	3.0
1315.5163	30.02	-1.66	230606.000	0.0	238205.500	1.0
1315.5422	28.01	-3.01	121227.800	2.5	128827.150	3.5
1315.5827	18.00	-2.29	117183.654	2.0	124782.770	1.0
1315.8504	28.00	-2.39	50851.220	1.0	58448.790	0.0
1315.8972	27.00	-2.52	46685.430	1.5	54282.730	2.5
1316.0306	25.00	-3.60	51787.920	.5	59384.450	1.5
1316.0653	6.00	-2.58	70743.950	1.0	78340.280	1.0
1316.1761	27.00	-4.09	47393.930	2.5	54989.620	3.5
1316.2293	18.00	-2.52	118469.117	2.0	126064.500	2.0
1316.2610	17.01	-3.68	131754.800	1.0	139350.000	1.0
1316.3130	13.01	-.42	135012.100	1.0	142607.000	2.0
1316.3477	15.00	-3.45	72741.600	1.5	80336.300	2.5
1316.3890	8.00	-.27	88630.599	1.0	96225.061	1.0
1316.3945	28.01	-1.59	121227.800	2.5	128822.230	1.5
1316.4483	20.02	-1.61	382798.500	4.0	390392.620	3.0
1316.4552	6.00	-4.12	79318.780	1.0	86912.860	1.0
1316.4859	8.00	-.04	88631.158	2.0	96225.061	1.0
1316.5130	8.00	-.74	88631.315	0.0	96225.061	1.0
1316.5471	27.00	-2.07	44568.470	2.5	52162.020	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1316.5474	18.00	-4.44	118459.662	1.0	126053.210	2.0
1316.5500	26.00	-4.70	42784.387	6.0	50377.920	5.0
1316.5812	7.00	-2.70	106477.800	.5	114071.153	1.5
1316.6112	23.00	-3.74	19145.130	5.5	26738.310	4.5
1316.6367	28.00	-1.15	47139.392	2.0	54732.425	2.0
1316.7760	20.00	-1.35	35896.889	4.0	43489.119	3.0
1316.8506	17.01	-4.86	161654.800	1.0	169246.600	1.0
1316.9289	7.00	-1.42	103735.450	2.5	111326.798	2.5
1316.9858	28.00	-2.16	48671.900	3.0	56262.920	3.0
1316.9893	30.02	-4.30	300098.100	4.0	307689.100	5.0
1317.0256	7.00	-4.80	103622.480	.5	111213.271	1.5
1317.0419	26.00	-2.95	47092.693	3.0	54683.390	4.0
1317.0986	22.00	-3.60	38654.230	1.0	46244.600	2.0
1317.1004	25.00	-4.95	34463.370	1.5	42053.730	2.5
1317.1871	27.00	-4.75	44480.140	2.5	52070.000	2.5
1317.2149	17.01	-3.12	151134.000	1.0	158723.700	1.0
1317.2722	26.02	-4.38	114351.920	3.0	121941.290	4.0
1317.3450	7.01	-.55	203162.480	0.0	210751.430	1.0
1317.4406	15.00	-3.35	74301.700	2.5	81890.100	2.5
1317.5072	18.00	-1.82	117183.654	2.0	124771.670	2.0
1317.5743	15.00	-.64	68088.270	1.5	75675.900	1.5
1317.6107	7.01	-1.14	203189.030	1.0	210776.450	0.0
1317.6350	24.00	-1.72	40971.290	2.0	48558.570	2.0
1317.6888	14.00	-.50	47284.061	1.0	54871.031	1.0
1317.6889	26.00	-3.08	44183.607	2.0	51770.577	3.0
1317.7167	27.00	-3.27	46671.940	2.5	54258.750	2.5
1317.8139	28.01	-2.12	121240.900	3.5	128827.150	3.5
1317.8233	26.00	-8.33	11976.239	4.0	19562.435	4.0
1317.8643	22.00	-1.90	28828.510	2.0	36414.470	3.0
1317.9147	28.01	-4.49	112686.300	2.5	120271.970	2.5
1318.1458	22.00	-4.13	41255.400	4.0	48839.740	3.0
1318.1667	25.02	-2.71	208819.640	3.5	216403.860	2.5
1318.1887	18.00	-2.61	118469.117	2.0	126053.210	2.0
1318.1927	28.01	-4.14	105588.890	4.5	113172.960	4.5
1318.2739	17.00	-1.92	83364.927	.5	90948.530	1.5
1318.3996	28.01	-2.09	99559.330	2.5	107142.210	1.5
1318.4291	26.02	-4.38	193595.300	0.0	201178.010	1.0
1318.4483	17.01	-4.57	131767.400	0.0	139350.000	1.0
1318.4639	28.01	-4.62	112686.300	2.5	120268.810	3.5
1318.4643	28.00	-3.50	42954.234	2.0	50536.742	1.0
1318.4865	25.00	-3.77	57305.620	3.5	64888.000	4.5
1318.4883	23.00	-2.20	15770.720	4.5	23353.090	3.5
1318.5526	17.01	-2.42	131768.000	2.0	139350.000	1.0
1318.5926	24.00	-1.83	40906.460	1.0	48488.230	0.0
1318.6173	26.00	-3.47	44022.518	4.0	51604.146	3.0
1318.6605	18.01	-1.14	202544.320	2.5	210125.700	2.5
1318.6744	23.00	-4.75	19023.470	4.5	26604.770	3.5
1318.7300	9.00	-1.97	130221.120	1.5	137802.100	2.5
1318.7302	26.00	-3.77	44458.960	0.0	52039.939	1.0
1318.8031	28.01	-4.37	115209.850	3.5	122790.410	4.5
1318.9649	23.00	-4.75	20789.130	2.5	28368.760	1.5
1319.0103	14.00	-3.53	54871.031	1.0	62450.400	1.0
1319.0449	25.02	-1.38	209091.410	5.5	216670.580	4.5
1319.0676	22.00	-2.81	35652.950	3.0	43231.990	4.0
1319.1024	22.00	-4.91	41457.620	3.0	49036.460	4.0
1319.1482	28.00	-4.12	42767.900	3.0	50346.477	2.0
1319.2016	26.02	-4.03	193599.740	1.0	201178.010	1.0
1319.2155	18.01	-3.80	201345.220	1.5	208923.410	2.5
1319.3113	22.00	-3.67	41337.430	2.0	48915.070	2.0
1319.3531	30.02	-4.25	257678.700	2.0	265256.100	3.0
1319.3705	28.01	-4.88	117074.700	3.5	124652.000	4.5
1319.3792	24.00	-2.26	40930.310	1.0	48507.560	1.0
1319.4354	26.00	-4.03	47106.463	4.0	54683.390	4.0
1319.5327	7.00	-4.72	103622.480	.5	111198.848	.5
1319.6003	18.01	-4.30	201345.220	1.5	208921.200	1.5
1319.6665	24.00	-2.55	40982.970	2.0	48558.570	2.0
1319.6962	28.01	-2.68	121227.800	2.5	128803.230	2.5
1319.7136	24.00	-1.73	41086.260	3.0	48661.590	3.0
1319.7327	28.01	-2.41	121294.670	4.5	128869.890	5.5
1319.7449	24.00	-3.19	28637.000	3.0	36212.150	4.0
1319.7537	29.01	.04	140984.200	1.0	148559.300	2.0
1319.8110	14.00	-2.77	53387.334	1.0	60962.105	2.0
1319.9105	22.00	-3.09	18061.540	1.0	25635.740	1.0
1319.9488	22.01	-4.14	25193.040	2.5	32767.020	3.5
1320.0638	27.00	-2.81	46685.430	1.5	54258.750	2.5
1320.0639	15.00	-3.14	57876.700	.5	65450.020	1.5
1320.0766	28.00	-4.78	43258.792	4.0	50832.039	3.0
1320.1161	24.00	-2.03	21847.880	2.0	29420.900	1.0
1320.1963	22.00	-2.65	35757.510	4.0	43330.070	5.0
1320.2364	28.01	-2.59	121294.670	4.5	128867.000	3.5
1320.2905	26.02	-4.13	193605.990	2.0	201178.010	1.0
1320.3184	18.01	-4.42	201351.550	2.5	208923.410	2.5
1320.3637	9.00	-2.56	130221.120	1.5	137792.720	2.5
1320.3928	14.00	-2.73	56780.427	1.0	64351.860	1.0
1320.4024	7.00	-2.76	107445.622	1.5	115017.000	.5
1320.4666	22.00	-3.02	35577.140	2.0	43148.150	3.0
1320.4811	26.00	-4.16	44183.607	2.0	51754.534	1.0
1320.5905	29.01	-2.80	131312.700	3.0	138883.000	4.0
1320.6881	37.00	-1.83	23792.591	0.0	31364.401	0.0
1320.7178	22.00	-3.21	36013.570	2.0	43583.140	3.0
1320.7736	28.01	-2.74	105838.060	3.5	113407.310	2.5
1320.8213	17.00	-3.02	82918.893	2.5	90487.870	3.5
1320.8382	23.02	-3.84	153112.600	3.5	160681.480	3.5
1320.8644	24.00	-2.89	31028.330	2.0	38597.060	1.0
1321.0232	28.01	-1.89	121294.670	4.5	128862.490	4.5
1321.1294	22.00	-4.26	17540.205	3.0	25107.417	2.0
1321.1315	25.00	-4.19	55186.170	2.5	62753.370	2.5
1321.1995	22.00	-3.55	41457.620	3.0	49024.430	3.0
1321.2397	9.00	-2.34	130221.120	1.5	137787.700	1.5
1321.2397	9.00	-4.73	130374.860	1.5	137941.440	2.5
1321.2416	28.00	-3.10	22102.349	4.0	29668.918	3.0
1321.2520	18.02	-4.73	243145.760	2.0	250712.270	2.0
1321.3078	17.00	-2.39	91127.030	2.5	98693.220	2.5
1321.3439	17.00	-.68	91127.030	2.5	98693.013	3.5
1321.3490	26.00	-4.30	48531.896	3.0	56097.850	3.0
1321.3888	18.00	-.55	104102.144	1.0	111667.870	0.0
1321.3934	30.02	-3.42	300123.400	5.0	307689.100	6.0
1321.4440	28.00	-2.49	44475.158	2.0	52040.568	2.0
1321.5419	28.01	-3.88	113753.040	4.5	121317.890	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1321.5843	26.00	-3.50	47960.973	4.0	55525.580	5.0
1321.6082	26.02	-3.94	193599.740	1.0	201164.210	2.0
1321.7131	28.01	-4.98	112686.300	2.5	120250.170	3.5
1321.7393	28.01	-5.00	119656.250	3.5	127219.970	3.5
1321.7463	6.00	-1.65	70743.950	1.0	78307.630	2.0
1321.8476	30.02	-3.57	300126.000	4.0	307689.100	5.0
1321.8550	22.00	-2.87	28788.372	4.0	36351.430	5.0
1321.9219	22.00	-3.74	17540.205	3.0	25102.880	2.0
1321.9240	10.00	-1.00	151038.452	1.0	158601.115	2.0
1321.9700	7.01	-3.89	203189.030	1.0	210751.430	1.0
1321.9822	28.01	-2.34	121240.900	3.5	128803.230	2.5
1322.0731	18.01	-4.10	201030.300	.5	208592.110	.5
1322.1308	18.01	-4.85	201030.300	.5	208591.780	1.5
1322.1809	26.00	-4.98	43137.472	3.0	50698.666	2.0
1322.2377	26.00	-2.85	45608.341	6.0	53169.210	6.0
1322.2435	26.00	-4.72	46888.494	2.0	54449.330	1.0
1322.2592	26.00	-3.83	44458.960	0.0	52019.706	1.0
1322.3066	26.00	-3.02	45833.240	4.0	53393.715	4.0
1322.3092	28.00	-2.72	47139.392	2.0	54699.852	3.0
1322.3267	26.02	-4.30	193605.990	2.0	201166.350	3.0
1322.3337	24.00	-2.83	49812.460	3.0	57372.780	4.0
1322.4771	15.01	-.75	130993.800	3.0	138553.300	2.0
1322.5226	28.01	-2.13	121294.670	4.5	128853.910	4.5
1322.6735	7.00	-1.70	107445.622	1.5	115004.000	2.5
1322.6784	25.01	-3.81	72010.750	4.0	79569.100	5.0
1322.7011	26.02	-3.35	193605.990	2.0	201164.210	2.0
1322.7536	24.00	-2.81	40930.310	1.0	48488.230	0.0
1322.7746	24.00	-4.49	47088.400	1.0	54646.200	0.0
1322.7758	26.00	-3.91	42784.387	6.0	50342.180	6.0
1322.8120	18.00	-.39	105462.804	3.0	113020.390	3.0
1322.9321	19.02	-2.95	238455.100	.5	246012.000	1.5
1322.9899	28.01	-3.77	128732.030	1.5	136288.600	2.5
1323.0127	23.00	-4.19	34477.400	.5	42033.840	1.5
1323.0530	18.01	-.04	182951.150	.5	190507.360	1.5
1323.0976	18.00	-.41	106087.305	1.0	113643.260	1.0
1323.1440	25.02	-.34	208751.600	4.5	216307.290	4.5
1323.1543	26.00	-3.69	45726.104	5.0	53281.735	5.0
1323.1685	18.00	-3.22	116999.389	2.0	124554.939	1.0
1323.1895	26.02	-3.46	193610.920	3.0	201166.350	3.0
1323.2684	26.02	-2.87	193611.370	4.0	201166.350	3.0
1323.3437	22.00	-2.03	18145.400	2.0	25699.950	2.0
1323.3840	28.01	-3.58	109269.830	1.5	116824.150	2.5
1323.4274	18.00	-1.58	113716.610	3.0	121270.682	2.0
1323.4381	14.00	-2.39	57328.789	1.0	64882.800	2.0
1323.5171	37.00	-.48	12578.950	0.0	20134.576	0.0
1323.5364	27.00	-3.49	47612.180	1.5	55165.630	2.5
1323.5644	26.02	-3.14	193610.920	3.0	201164.210	2.0
1323.5872	22.00	-3.25	35527.760	1.0	43080.920	2.0
1323.5942	27.00	-3.29	44480.140	2.5	52033.260	1.5
1323.8010	24.00	-3.50	35572.940	2.0	43124.880	2.0
1323.8046	7.01	-.61	202714.120	1.0	210266.040	2.0
1323.8180	26.00	-4.79	44285.436	2.0	51837.279	3.0
1323.8431	15.01	-2.14	132372.600	1.0	139924.300	2.0
1323.8659	22.00	-3.14	38159.710	3.0	45711.280	4.0
1323.8747	22.00	-3.31	17369.590	1.0	24921.110	1.0
1323.9588	25.01	-4.96	67008.930	3.0	74559.970	3.0
1324.0325	18.01	-2.64	191974.530	1.5	199525.150	1.5
1324.0710	13.01	-.98	142362.800	2.0	149913.200	2.0
1324.0710	13.01	-.25	142362.800	1.0	149913.200	2.0
1324.0710	13.01	-.45	142362.800	2.0	149913.200	3.0
1324.0710	13.01	-2.52	142362.800	3.0	149913.200	2.0
1324.0710	13.01	-1.35	142362.800	3.0	149913.200	3.0
1324.0710	13.01	.08	142362.800	3.0	149913.200	4.0
1324.0940	26.00	-2.95	44664.061	2.0	52214.330	1.0
1324.1072	7.00	-1.91	103735.450	2.5	111285.644	1.5
1324.2219	6.00	-2.08	70743.950	1.0	78293.490	1.0
1324.2973	28.01	-2.85	121317.890	3.5	128867.000	3.5
1324.3078	22.00	-1.56	28791.620	1.0	36340.670	2.0
1324.3422	7.00	-2.70	106477.800	.5	114026.654	.5
1324.3552	24.00	-3.54	49812.460	3.0	57361.240	3.0
1324.3643	17.00	-.42	84132.262	2.5	91680.990	1.5
1324.3762	18.00	-1.43	113643.260	1.0	121191.920	2.0
1324.4280	26.00	-4.17	40207.120	3.0	47755.485	3.0
1324.4552	24.00	-2.54	31048.850	1.0	38597.060	1.0
1324.4710	23.00	-4.73	30694.340	3.5	38242.460	3.5
1324.5307	28.01	-3.37	103025.580	2.5	110573.360	2.5
1324.5412	28.00	-3.95	48715.200	4.0	56262.920	3.0
1324.5429	26.00	-3.24	47831.132	2.0	55378.842	2.0
1324.5549	26.00	-4.42	44022.518	4.0	51570.160	3.0
1324.5570	25.01	-4.25	72010.750	4.0	79558.380	4.0
1324.5763	28.01	-3.16	105861.190	2.5	113408.710	1.5
1324.6500	29.01	-.17	139028.200	2.0	146575.300	2.0
1324.7448	22.00	-3.48	39640.980	3.0	47187.540	2.0
1324.7816	24.00	-4.92	39158.630	4.0	46704.980	5.0
1324.8183	7.00	-4.84	103667.130	1.5	111213.271	1.5
1324.8220	28.01	-2.55	105861.190	2.5	113407.310	2.5
1324.8273	17.00	-1.56	84648.100	2.5	92194.190	1.5
1324.8543	26.00	-3.54	46720.824	4.0	54266.760	5.0
1324.8765	23.00	-2.39	15664.750	1.5	23210.560	2.5
1324.9327	20.00	.13	40537.893	3.0	48083.383	2.0
1324.9800	23.00	-3.55	34619.520	2.5	42164.740	3.5
1325.0213	26.00	-4.86	47831.132	2.0	55376.117	1.0
1325.0322	20.00	-1.12	36731.615	1.0	44276.538	0.0
1325.0480	22.00	-2.45	38699.767	2.0	46244.600	2.0
1325.0619	17.00	-4.09	94314.206	1.5	101858.960	2.5
1325.0889	28.01	-2.16	121317.890	3.5	128862.490	4.5
1325.0921	26.00	-4.86	47834.260	3.0	55378.842	2.0
1325.1190	10.00	-1.73	163012.621	1.0	170557.050	1.0
1325.1820	6.00	-2.41	81105.030	1.0	88649.100	0.0
1325.2628	22.00	-4.67	36200.940	5.0	43744.550	4.0
1325.2839	22.00	-2.39	18061.540	1.0	25605.030	0.0
1325.4266	7.00	-2.39	103622.480	.5	111165.158	1.5
1325.4684	28.01	-1.38	121294.670	4.5	128837.110	5.5
1325.4793	7.00	-3.07	107445.622	1.5	114988.000	.5
1325.4793	7.00	-2.23	107445.622	1.5	114988.000	1.5
1325.4793	7.00	-2.20	107445.622	1.5	114988.000	2.5
1325.4995	14.00	-4.25	56780.427	1.0	64322.690	0.0
1325.5282	22.00	-2.73	36132.210	4.0	43674.310	4.0
1325.6108	28.01	-3.15	113753.040	4.5	121294.670	4.5
1325.6213	6.00	-2.28	81105.030	1.0	88646.600	1.0
1325.6291	22.00	-2.22	17995.750	0.0	25537.276	1.0
1325.6512	13.01	-.11	142607.000	2.0	150148.400	3.0
1325.7860	18.00	-1.83	117151.387	1.0	124692.020	2.0
1325.8129	25.02	-3.39	208743.100	2.5	216283.580	3.5
1325.8217	26.00	-4.74	26406.490	1.0	33946.920	2.0
1325.8411	20.02	-1.49	382852.300	2.0	390392.620	3.0
1325.8886	18.01	-1.41	147503.020	1.5	155043.070	2.5
1325.9800	25.01	-4.95	72010.750	4.0	79550.280	3.0
1326.0366	28.00	-1.66	48735.308	2.0	56274.516	2.0
1326.0635	26.00	-2.16	43922.652	3.0	51461.707	4.0
1326.1063	26.00	-3.05	44166.240	3.0	51705.052	2.0
1326.1242	28.01	-4.78	113623.100	.5	121161.810	1.5
1326.1494	22.00	-1.24	33655.853	2.0	41194.420	3.0
1326.1999	26.00	-4.04	47017.170	3.0	54555.450	4.0
1326.2016	22.00	-4.89	40670.600	2.0	48208.870	3.0
1326.2157	24.00	-4.94	49812.460	3.0	57350.650	2.0
1326.2447	26.00	-4.75	44511.795	2.0	52049.820	2.0
1326.2706	26.00	-4.68	43922.652	3.0	51460.530	3.0
1326.3195	29.01	-.66	140984.200	1.0	148521.800	1.0
1326.4451	7.00	-1.77	103667.130	1.5	111204.016	2.5
1326.4540	28.00	-1.94	42605.964	3.0	50142.800	3.0
1326.5272	7.01	-.49	202765.260	2.0	210301.680	3.0
1326.5536	24.00	-1.53	40971.290	2.0	48507.560	1.0
1326.5976	28.01	-2.13	121317.890	3.5	128853.910	4.5
1326.6046	28.01	-3.83	121317.890	3.5	128853.870	2.5
1326.6662	22.00	-3.07	36208.920	4.0	43744.550	4.0
1326.8715	14.00	-1.48	49933.775	3.0	57468.239	2.0
1326.9550	6.00	-2.19	81105.030	1.0	88639.020	1.0
1327.1030	26.01	-4.42	72352.170	3.5	79885.320	2.5
1327.1576	23.00	-4.55	34537.210	1.5	42070.050	2.5
1327.2210	28.01	-2.89	121294.670	4.5	128827.150	3.5
1327.2501	17.00	-2.88	88080.042	2.5	95612.357	1.5
1327.2628	18.00	.41	107289.747	2.0	114821.990	3.0
1327.3003	22.00	-1.06	28882.440	3.0	36414.470	3.0
1327.3092	25.02	-.07	208751.600	4.5	216283.580	3.5
1327.3462	6.00	-1.82	81105.030	1.0	88636.800	2.0
1327.3620	26.00	-4.16	46600.800	1.0	54132.480	1.0
1327.3673	28.01	-3.36	111783.790	3.5	119315.440	2.5
1327.3927	18.00	-1.73	117183.654	2.0	124715.160	3.0
1327.3932	17.00	-4.11	94468.857	.5	102000.360	1.5
1327.5266	22.00	-4.98	20209.444	2.0	27740.190	2.0
1327.5383	22.00	-3.53	35503.400	0.0	43034.080	1.0
1327.5762	26.00	-4.84	46727.055	2.0	54257.520	2.0
1327.5841	28.01	-4.77	112719.750	3.5	120250.170	3.5
1327.5924	28.00	-2.03	49327.560	3.0	56857.933	4.0
1327.6264	22.00	-3.63	38159.710	3.0	45689.890	3.0
1327.7269	24.00	-4.33	39158.630	4.0	46688.240	3.0
1327.9403	29.01	-.14	139028.200	2.0	146556.600	3.0
1327.9548	17.00	-1.29	84132.262	2.5	91660.580	2.5
1327.9855	26.00	-4.18	44511.795	2.0	52039.939	1.0
1328.0285	15.00	-2.59	68377.200	3.5	75905.100	2.5
1328.0320	18.01	-4.37	201720.670	1.5	209248.550	2.5
1328.0409	28.01	-4.59	128799.720	.5	136327.550	1.5
1328.0793	28.00	-.92	48735.308	2.0	56262.920	3.0
1328.1044	23.00	-2.15	36538.580	4.5	44066.050	3.5
1328.1485	25.00	-1.53	23549.200	2.5	31076.420	1.5
1328.2580	15.01	-1.02	132397.700	2.0	139924.300	2.0
1328.2703	27.00	-1.89	44568.470	2.5	52095.000	3.5
1328.4150	7.01	-.60	202714.120	1.0	210239.830	1.0
1328.4167	18.01	-2.68	150147.620	2.5	157673.320	2.5
1328.4397	22.00	-1.44	28772.860	0.0	36298.430	1.0
1328.4657	7.00	-1.34	103735.450	2.5	111260.873	3.5
1328.4733	9.00	-2.11	129937.330	1.5	137462.710	1.5
1328.4962	25.00	-4.82	55107.520	3.5	62632.770	3.5
1328.6127	24.00	-3.97	40982.970	2.0	48507.560	1.0
1328.6210	22.00	-3.60	26803.417	2.0	34327.960	1.0
1328.6821	28.00	-1.49	47208.228	1.0	54732.425	2.0
1328.6864	26.00	-1.26	40231.312	2.0	47755.485	3.0
1328.7451	17.00	-4.11	94663.670	1.5	102187.510	2.5
1328.7487	6.00	-3.02	77679.820	2.0	85203.640	2.0
1328.7564	14.00	-1.24	39760.285	1.0	47284.061	1.0
1328.7770	22.00	-4.34	38544.380	3.0	46068.040	4.0
1328.7844	26.00	-3.63	23783.617	5.0	31307.235	4.0
1328.8600	23.01	-3.94	44657.990	2.0	52181.180	1.0
1328.9147	28.01	-1.95	99559.330	2.5	107082.210	2.5
1328.9395	25.00	-3.48	50099.160	1.5	57621.900	1.5
1329.0561	22.00	-3.11	41337.430	2.0	48859.510	1.0
1329.1126	23.00	-1.71	15688.800	2.5	23210.560	2.5
1329.1683	26.00	-3.01	44183.607	2.0	51705.052	2.0
1329.2315	7.00	-2.50	103622.480	.5	111143.567	.5
1329.3318	24.00	-3.94	38537.680	5.0	46058.200	4.0
1329.3795	25.00	-1.86	17282.000	3.5	24802.250	3.5
1329.4067	10.00	-2.43	163012.621	1.0	170532.717	2.0
1329.4078	27.00	-2.27	49025.420	1.5	56545.510	2.5
1329.4749	17.00	-.35	91173.510	1.5	98693.220	2.5
1329.5651	24.01	-3.50	59130.510	1.5	66649.710	1.5
1329.5970	17.00	-1.15	90193.640	4.5	97712.660	4.5
1329.6023	17.00	.58	90193.640	4.5	97712.630	5.5
1329.6493	14.00	-3.31	56503.346	2.0	64022.070	3.0
1329.6537	10.00	-1.89	163038.351	2.0	170557.050	1.0
1329.7278	28.01	-2.89	92325.850	3.5	99844.130	3.5
1329.7554	17.00	-3.00	94482.236	2.5	102000.360	1.5
1329.7801	17.00	-2.88	88188.550	1.5	95706.534	1.5
1329.7854	14.00	-2.14	56503.346	2.0	64021.300	2.0
1329.8499	25.00	-4.88	57305.620	3.5	64823.210	2.5
1329.8888	26.00	-4.28	50456.790	3.0	57974.160	2.0
1329.8923	26.00	-3.88	46313.610	2.0	53830.960	3.0
1330.0020	29.01	-1.71	133727.870	2.0	141244.600	1.0
1330.0250	15.00	-1.68	68183.200	1.5	75699.800	.5
1330.0905	7.01	.06	203189.030	1.0	210705.260	2.0
1330.1091	26.00	-2.97	44551.325	3.0	52067.450	2.0
1330.1217	14.00	-3.15	56503.346	2.0	64019.400	3.0
1330.2315	18.00	-1.09	107289.747	2.0	114805.180	2.0
1330.2692	24.00	-3.63	41043.350	3.0	48558.570	2.0
1330.3029	28.01	-2.46	101754.800	2.5	109269.830	1.5
1330.4056	24.00	-4.68	46448.600	1.0	53963.050	1.0
1330.4339	27.00	-2.83	44555.710	1.5	52070.000	2.5
1330.4339	22.00	-1.94	33680.130	3.0	41194.420	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1330.4410	28.01	-2.99	98467.250	3.5	105981.500	4.5
1330.4438	26.00	-4.33	37162.729	3.0	44676.963	4.0
1330.4835	9.00	-3.15	129937.330	1.5	137451.340	2.5
1330.7048	24.00	-4.90	37233.500	5.0	44746.260	6.0
1330.7279	9.00	-4.00	129937.330	1.5	137449.960	1.5
1330.8106	7.00	-2.92	106778.337	1.5	114290.500	2.5
1330.8111	22.00	-.97	28828.510	2.0	36340.670	2.0
1330.9044	14.00	-1.91	49188.617	2.0	56700.250	1.0
1330.9086	28.00	-1.55	48671.900	3.0	56183.510	4.0
1330.9341	26.00	-4.62	43022.969	4.0	50534.435	3.0
1330.9481	28.00	-2.85	36600.805	2.0	44112.192	1.0
1330.9656	26.00	-4.54	42911.897	5.0	50423.185	4.0
1331.0060	27.00	-4.01	47393.930	2.5	54904.990	2.5
1331.0964	24.00	-2.82	35398.020	4.0	42908.570	4.0
1331.1318	23.00	-3.72	36408.230	1.5	43918.580	2.5
1331.1975	6.00	-3.04	81105.030	1.0	88615.010	1.0
1331.3206	18.00	.23	107131.755	1.0	114641.040	2.0
1331.3251	28.01	-1.82	121317.890	3.5	128827.150	3.5
1331.3481	6.00	-4.28	77679.820	2.0	85188.950	1.0
1331.4013	28.01	-4.24	105668.780	2.5	113177.610	3.5
1331.4048	20.02	-1.12	336749.110	1.0	344257.920	1.0
1331.4634	22.00	-3.09	35959.070	1.0	43467.550	2.0
1331.4705	6.00	-3.94	78116.740	1.0	85625.180	0.0
1331.4836	18.00	-3.07	117183.654	2.0	124692.020	2.0
1331.4953	15.01	-.30	130801.700	1.0	138310.000	2.0
1331.5643	26.00	-4.23	44511.795	2.0	52019.706	1.0
1331.5857	24.00	-4.17	46524.840	2.0	54032.630	2.0
1331.7087	22.00	-4.57	29818.310	3.0	37325.407	2.0
1331.7560	18.00	-2.00	114147.750	1.0	121654.580	2.0
1331.7596	22.00	-1.08	28791.620	1.0	36298.430	1.0
1331.7984	20.00	-.62	37298.287	2.0	44804.878	3.0
1331.8199	29.01	-4.31	131312.700	3.0	138819.170	3.0
1331.8376	24.00	-4.13	35618.510	1.0	43124.880	2.0
1331.8396	37.00	-1.79	23715.081	0.0	31223.493	0.0
1331.8465	22.00	-3.51	35527.760	1.0	43034.080	1.0
1331.8763	22.00	-2.72	28702.768	3.0	36208.920	4.0
1331.8944	25.00	-1.62	17282.000	3.5	24788.050	2.5
1331.9033	15.00	-1.75	68183.200	1.5	75689.200	1.5
1331.9204	17.00	-1.89	94482.236	2.5	101988.140	2.5
1331.9548	9.00	-2.61	129937.330	1.5	137443.040	2.5
1331.9826	17.00	-2.81	84688.637	.5	92194.190	1.5
1332.0240	28.01	-4.68	128822.230	1.5	136327.550	1.5
1332.0737	28.00	-2.62	51124.800	3.0	58629.840	2.0
1332.0985	22.01	-3.10	25193.040	2.5	32697.940	2.5
1332.1251	28.00	-3.49	51124.800	3.0	58629.550	3.0
1332.1912	7.00	-3.47	107445.622	1.5	114950.000	.5
1332.1912	7.00	-3.33	107445.622	1.5	114950.000	1.5
1332.2174	28.01	-2.56	121227.800	2.5	128732.030	1.5
1332.2973	22.00	-3.33	35577.140	2.0	43080.920	2.0
1332.3541	26.00	-4.35	51016.720	5.0	58520.180	4.0
1332.3648	13.01	-.32	142362.800	2.0	149866.200	3.0
1332.3648	13.01	-1.23	142362.800	3.0	149866.200	3.0
1332.4110	28.01	-2.63	126738.820	1.5	134241.960	.5
1332.4323	7.01	.39	202170.630	1.0	209673.650	2.0
1332.4891	13.01	-.24	142607.000	2.0	150109.700	3.0
1332.5627	14.00	-2.23	49188.617	2.0	56690.903	2.0
1332.5690	25.00	-2.50	57485.970	2.5	64988.220	3.5
1332.5975	23.00	-2.02	36416.490	1.5	43918.580	2.5
1332.6969	27.00	-2.18	44568.470	2.5	52070.000	2.5
1332.8231	25.00	-4.22	49888.080	3.5	57388.900	4.5
1332.8259	28.00	-2.49	48671.900	3.0	56172.704	3.0
1332.8302	7.01	-.33	202765.260	2.0	210266.040	2.0
1332.8337	25.02	-1.26	209032.300	5.5	216533.060	6.5
1332.9066	29.01	-4.90	117747.450	3.0	125247.800	2.0
1332.9210	7.00	-3.34	106758.731	.5	114259.000	1.5
1332.9688	10.03	-4.16	636475.000	1.5	643975.000	2.5
1332.9813	18.00	-1.79	112750.220	4.0	120250.150	3.0
1332.9813	18.00	-.25	112750.220	4.0	120250.150	4.0
1333.0186	6.00	-2.64	81105.030	1.0	88604.750	2.0
1333.0825	9.00	-.49	119081.820	.5	126581.180	.5
1333.1857	25.02	-.49	208650.540	3.5	216149.320	3.5
1333.2363	26.00	-2.82	44551.325	3.0	52049.820	2.0
1333.2719	22.00	-2.39	18145.400	2.0	25643.695	3.0
1333.2888	13.01	-1.40	138799.300	0.0	146297.500	1.0
1333.3194	7.00	-2.25	103667.130	1.5	111165.158	1.5
1333.3670	27.00	-2.56	43555.220	3.5	51052.980	3.5
1333.3838	26.00	-4.52	46888.494	2.0	54386.160	1.0
1333.4565	22.00	-3.52	17423.853	2.0	24921.110	1.0
1333.5111	27.00	-2.77	45876.580	2.5	53373.530	3.5
1333.5431	15.00	-3.14	57876.700	.5	65373.470	.5
1333.5750	26.00	-3.16	44760.739	1.0	52257.330	0.0
1333.6129	7.00	-2.26	107445.622	1.5	114942.000	2.5
1333.6623	17.01	-1.14	150681.000	2.0	158177.100	1.0
1333.6872	22.00	-3.52	39785.940	4.0	47281.900	3.0
1333.6997	28.01	-2.25	113407.310	2.5	120903.200	3.5
1333.7388	24.00	-4.12	46637.210	3.0	54132.880	3.0
1333.7401	7.00	-2.44	106778.337	1.5	114274.000	2.5
1333.7981	20.00	-4.00	40537.893	3.0	48033.230	2.0
1333.8225	22.00	-3.26	35652.950	3.0	43148.150	3.0
1333.9203	23.00	-4.93	34619.520	2.5	42114.170	3.5
1333.9709	10.00	-1.60	163038.351	2.0	170532.717	2.0
1333.9826	13.01	-1.56	142849.200	3.0	150343.500	2.0
1333.9826	13.01	-2.99	142849.200	3.0	150343.500	3.0
1333.9826	13.01	-4.42	142849.200	3.0	150343.500	4.0
1333.9826	13.01	-2.03	142849.200	4.0	150343.500	3.0
1333.9826	13.01	-1.03	142849.200	4.0	150343.500	3.0
1333.9826	13.01	-2.86	142849.200	4.0	150343.500	4.0
1333.9826	13.01	-3.00	142849.200	4.0	150343.500	4.0
1333.9826	13.01	-1.33	142849.200	5.0	150343.500	4.0
1334.0200	20.02	-.77	363021.270	2.0	370515.360	3.0
1334.0373	28.00	-4.06	49327.560	3.0	56821.553	3.0
1334.1169	22.00	-3.92	33700.874	4.0	41194.420	3.0
1334.1429	15.00	-3.27	74301.700	2.5	81795.100	3.5
1334.2461	8.01	-.51	240516.280	1.5	248009.100	1.5
1334.2675	15.00	-3.78	74271.800	1.5	81764.500	1.5
1334.3120	7.01	-.39	203258.980	2.0	210751.430	1.0
1334.3521	26.00	-4.47	46744.975	3.0	54237.200	4.0
1334.3874	17.00	-.38	84648.100	2.5	92140.127	1.5
1334.4830	7.01	.40	197858.690	1.0	205350.180	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1334.5240	18.01	-2.82	204585.640	2.5	212076.900	2.5
1334.5454	28.01	-2.81	112422.190	5.5	119913.330	4.5
1334.5799	26.00	-4.37	46888.494	2.0	54379.440	3.0
1334.6879	22.00	-2.90	18145.400	2.0	25635.740	1.0
1334.8804	27.00	-4.79	21780.470	5.5	29269.730	4.5
1335.1299	28.01	-3.62	113753.040	4.5	121240.900	3.5
1335.1674	25.02	-2.84	208819.640	3.5	216307.290	4.5
1335.2156	14.02	.03	250366.220	3.0	257853.600	4.0
1335.2156	14.02	-.11	250366.220	3.0	257853.600	4.0
1335.2432	26.00	-3.54	46888.494	2.0	54375.719	2.0
1335.2762	27.00	-2.72	43555.220	3.5	51042.260	2.5
1335.3422	22.00	-3.07	36096.470	3.0	43583.140	3.0
1335.4010	23.00	-2.13	15724.220	3.5	23210.560	2.5
1335.4331	18.01	-1.52	204585.640	2.5	212071.800	3.5
1335.5331	13.01	-3.14	138811.900	2.0	146297.500	1.0
1335.5331	13.01	-3.61	138811.900	1.0	146297.500	1.0
1335.5634	27.00	-2.51	44555.710	1.5	52041.140	.5
1335.5741	28.01	-4.10	128803.230	2.5	136288.600	2.5
1335.5794	28.01	-2.03	121317.890	3.5	128803.230	2.5
1335.6149	26.00	-3.32	44285.436	2.0	51770.577	3.0
1335.6246	26.00	-5.00	47960.973	4.0	55446.060	4.0
1335.7079	22.00	-4.74	40844.190	3.0	48328.810	4.0
1335.8935	29.01	-3.08	128853.300	2.0	136336.880	1.0
1335.9703	29.01	-4.15	117747.450	3.0	125230.600	3.0
1336.0299	22.00	-7.54	14105.680	3.0	21588.496	4.0
1336.0489	25.00	-3.63	41932.640	3.5	49415.350	2.5
1336.1256	14.02	-.70	250366.220	3.0	257848.500	2.0
1336.2239	27.00	-3.59	46454.950	1.5	53936.680	2.5
1336.2703	10.01	-1.74	283322.350	1.5	290803.820	.5
1336.4144	7.00	-2.54	106778.337	1.5	114259.000	1.5
1336.4521	17.00	-1.86	90193.640	4.5	97674.092	3.5
1336.4909	26.00	-3.90	45913.480	3.0	53393.715	4.0
1336.4936	28.01	-3.07	112686.300	2.5	120166.520	1.5
1336.5075	26.00	-4.99	43499.485	4.0	50979.627	4.0
1336.5401	23.00	-9.78	10892.500	3.5	18372.460	3.5
1336.5744	22.00	-1.80	38764.832	3.0	46244.600	2.0
1336.5811	27.00	-3.70	46032.100	4.5	53511.830	5.5
1336.6062	18.00	-1.54	112750.220	4.0	120229.810	3.0
1336.6682	22.00	-3.28	39715.437	3.0	47194.680	4.0
1336.6705	6.00	-2.20	81105.030	1.0	88584.260	2.0
1336.7093	18.00	.34	106237.597	2.0	113716.610	3.0
1336.7818	18.00	-.53	107496.463	1.0	114975.070	1.0
1336.8135	25.00	-3.49	51638.170	2.5	59116.600	2.5
1336.8977	14.00	-1.93	49850.830	2.0	57328.789	1.0
1336.9708	27.00	-4.59	44555.710	1.5	52033.260	1.5
1337.1698	7.00	-3.17	103667.130	1.5	111143.567	.5
1337.1866	17.00	-.40	94468.857	.5	101945.200	.5
1337.1866	17.00	-.71	94468.857	.5	101945.200	1.5
1337.2069	29.01	-.81	133727.870	2.0	141204.100	3.0
1337.2158	29.01	-3.78	116080.460	3.0	123556.640	2.0
1337.2407	7.00	-3.29	106814.459	2.5	114290.500	2.5
1337.2578	26.00	-3.87	53281.735	5.0	60757.680	4.0
1337.2952	22.00	-2.27	18061.540	1.0	25537.276	1.0
1337.3432	28.00	-1.22	44565.100	3.0	52040.568	2.0
1337.3715	18.00	-2.42	113716.610	3.0	121191.920	2.0
1337.3965	18.01	-1.60	147875.860	2.5	155351.030	1.5
1337.4729	26.00	-4.61	28604.610	2.0	36079.353	3.0
1337.5038	7.01	-.97	202765.260	2.0	210239.830	1.0
1337.5182	26.01	-2.86	71964.810	2.5	79439.300	3.5
1337.5200	22.00	-3.36	35757.510	4.0	43231.990	4.0
1337.6495	17.00	-1.74	90193.640	4.5	97667.396	3.5
1337.7009	7.00	-4.70	106758.731	.5	114232.200	1.5
1337.7025	25.00	-2.95	55279.910	1.5	62753.370	2.5
1337.7061	25.00	-3.33	50012.530	2.5	57485.970	2.5
1337.7186	22.00	-4.23	36200.940	5.0	43674.310	4.0
1337.7831	19.00	-1.41	21534.700	2.5	29007.710	1.5
1337.7831	17.00	-.21	90193.640	4.5	97666.650	4.5
1337.9084	24.00	-1.32	41086.260	3.0	48558.570	2.0
1337.9615	9.00	-2.52	118405.267	.5	125877.280	1.5
1337.9621	18.01	-3.42	191974.530	1.5	199446.540	.5
1337.9966	7.00	-1.61	107628.283	1.5	115100.100	2.5
1338.0260	14.00	-2.38	56780.427	1.0	64252.080	2.0
1338.1645	28.01	-1.04	127867.130	4.5	135338.010	5.5
1338.1806	7.00	-2.24	96750.810	1.5	104221.600	1.5
1338.1895	23.00	-3.94	30771.720	4.5	38242.460	3.5
1338.1931	23.00	-4.89	30635.600	2.5	38106.320	2.5
1338.1950	19.00	-2.37	21537.000	1.5	29007.710	1.5
1338.2199	17.00	-.19	90948.530	1.5	98419.100	2.5
1338.2791	29.01	-2.54	114511.440	1.0	121981.680	2.0
1338.3250	12.00	-2.67	51872.526	1.0	59342.510	0.0
1338.3250	12.00	-2.19	51872.526	1.0	59342.510	1.0
1338.3250	12.00	-1.97	51872.526	1.0	59342.510	2.0
1338.3364	22.00	-1.19	28828.510	2.0	36298.430	1.0
1338.3812	18.01	-3.64	201781.790	2.5	209251.460	3.5
1338.4483	14.00	-3.58	53387.334	1.0	60856.630	1.0
1338.4484	26.00	-4.77	24335.764	2.0	31805.059	3.0
1338.4837	26.00	-3.22	44285.436	2.0	51754.534	1.0
1338.4958	7.00	-2.49	107588.469	.5	115057.500	1.5
1338.5162	26.00	-2.91	47960.973	4.0	55429.890	5.0
1338.5791	7.00	-2.22	103735.450	2.5	111204.016	2.5
1338.6250	28.00	-3.17	48715.200	4.0	56183.510	4.0
1338.6805	29.01	.06	139028.200	2.0	146496.200	3.0
1338.7504	28.01	-4.36	113623.100	.5	121090.710	.5
1338.8096	28.01	-2.25	112422.190	5.5	119889.470	5.5
1338.8455	28.01	-4.04	105439.850	1.5	112906.930	1.5
1338.9539	26.00	-.32	43434.585	3.0	50901.060	2.0
1338.9866	26.00	-4.86	24338.766	3.0	31805.059	3.0
1339.0354	26.00	-4.89	46600.800	1.0	54066.821	2.0
1339.0579	18.00	-2.96	117183.654	2.0	124649.549	3.0
1339.0894	28.01	-3.72	99154.810	4.5	106620.530	3.5
1339.2562	27.00	-2.22	44568.470	2.5	52033.260	1.5
1339.2691	26.00	.11	43163.282	4.0	50628.000	3.0
1339.2903	13.01	-1.03	138811.900	2.0	146276.500	3.0
1339.2903	13.01	-1.93	138811.900	3.0	146276.500	3.0
1339.2989	20.00	-.64	37298.287	2.0	44762.839	3.0
1339.3381	20.00	-1.55	37298.287	2.0	44762.620	2.0
1339.4063	14.00	-4.69	57198.027	3.0	64661.980	3.0
1339.4087	25.02	-1.99	208819.640	3.5	216283.580	3.5
1339.4643	14.02	1.00	242473.660	3.0	249937.290	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1339.5002	14.02	-.54	242473.860	4.0	249937.290	4.0
1339.5002	14.02	1.10	242473.860	4.0	249937.290	5.0
1339.5002	14.02	-2.54	242473.860	4.0	249937.290	5.0
1339.5114	28.00	-2.48	51124.800	3.0	58588.168	3.0
1339.5146	26.00	-4.77	51361.460	3.0	58824.810	2.0
1339.5720	21.00	-1.50	37553.340	2.5	45016.370	3.5
1339.5738	14.02	-3.46	242474.270	4.0	249937.290	5.0
1339.5738	14.02	1.10	242474.270	4.0	249937.290	5.0
1339.5738	14.02	-.64	242474.270	4.0	249937.290	4.0
1339.5839	17.00	-3.76	94482.236	2.5	101945.200	1.5
1339.5859	14.00	-2.99	56780.427	1.0	64243.380	2.0
1339.6133	15.00	-4.74	74301.700	2.5	81764.500	1.5
1339.6210	26.00	-4.99	47092.693	3.0	54555.450	4.0
1339.6236	17.00	-.76	84688.637	.5	92151.380	.5
1339.6473	14.00	-2.50	54185.264	1.0	61647.875	2.0
1339.6708	14.02	-.54	242474.810	5.0	249937.290	5.0
1339.6708	14.02	-.65	242474.810	5.0	249937.290	5.0
1339.6708	14.02	1.18	242474.810	5.0	249937.290	6.0
1339.6708	14.02	-2.28	242474.810	5.0	249937.290	4.0
1339.6905	22.00	-.48	28952.100	4.0	36414.470	3.0
1339.7084	19.00	-1.68	21537.000	1.5	28999.270	.5
1339.7397	14.00	-1.24	54185.264	1.0	61647.360	1.0
1339.7749	13.01	-1.12	142849.200	4.0	150311.100	3.0
1339.7749	13.01	-1.98	142849.200	4.0	150311.100	3.0
1339.7749	13.01	-2.87	142849.200	3.0	150311.100	3.0
1339.8108	15.01	-1.25	123891.600	2.0	131353.300	2.0
1340.0190	7.00	-2.42	106814.459	2.5	114275.000	3.5
1340.0972	7.00	-4.80	104859.700	1.5	112319.805	1.5
1340.1238	26.00	-4.82	46672.523	0.0	54132.480	1.0
1340.1986	7.00	-1.86	106814.459	2.5	114274.000	2.5
1340.3138	15.00	-4.01	68246.500	2.5	75705.400	3.5
1340.4341	22.00	-.77	28882.440	3.0	36340.670	2.0
1340.5114	27.00	-4.31	47225.110	3.5	54682.910	4.5
1340.5406	22.00	-2.74	28638.832	2.0	36096.470	3.0
1340.5564	18.00	-.95	112750.220	4.0	120207.770	4.0
1340.5646	28.00	-4.72	48715.200	4.0	56172.704	3.0
1340.5743	22.00	-3.15	41457.620	3.0	48915.070	2.0
1340.5959	26.01	-3.24	80177.870	1.5	87635.200	.5
1340.5977	23.00	-3.41	36461.260	2.5	43918.580	2.5
1340.5977	23.00	-2.32	36461.260	3.5	43918.580	2.5
1340.6373	18.00	.69	112750.220	4.0	120207.320	5.0
1340.6660	22.00	-4.27	35577.140	2.0	43034.080	1.0
1340.6703	28.00	-2.72	48817.600	1.0	56274.516	2.0
1340.6894	23.00	-3.93	19023.470	4.5	26480.280	3.5
1340.7092	15.01	-.69	123345.000	0.0	130801.700	1.0
1340.7272	10.01	-4.77	306262.770	1.5	313719.370	2.5
1340.8061	14.00	-.65	57468.239	2.0	64924.400	3.0
1340.9117	22.00	-2.89	12118.394	4.0	19573.968	4.0
1340.9487	22.00	-1.92	28896.062	5.0	36351.430	5.0
1340.9771	17.00	-4.76	94732.300	3.5	102187.510	2.5
1340.9933	6.00	-2.26	70743.950	1.0	78199.070	2.0
1341.0998	26.00	-3.94	44285.436	2.0	51739.964	2.0
1341.1516	23.00	-2.28	36611.810	2.5	44066.050	3.5
1341.1800	2.00	-1.26	186210.000	0.0	193666.121	0.0
1341.1984	22.00	-3.32	36013.570	2.0	43467.550	2.0
1341.2194	7.00	-3.24	106778.337	1.5	114232.200	1.5
1341.2308	15.01	-3.42	104054.700	1.0	111508.500	0.0
1341.2515	14.00	-3.28	53362.240	3.0	60815.925	2.0
1341.2684	26.00	-3.91	44760.739	1.0	52214.330	1.0
1341.2722	6.00	-2.79	81105.030	1.0	88558.600	1.0
1341.3858	26.00	-3.49	45608.341	6.0	53061.280	5.0
1341.4522	18.00	-3.13	117151.387	1.0	124603.957	2.0
1341.4853	8.00	-1.57	99092.980	1.0	106545.366	2.0
1341.5008	15.00	-3.83	70391.600	2.5	77843.900	2.5
1341.5638	25.00	-1.90	23549.200	2.5	31001.150	2.5
1341.5727	15.00	-3.28	72884.400	2.5	80336.300	2.5
1341.5764	26.01	-3.25	54870.620	2.5	62322.500	3.5
1341.6064	8.00	-1.34	99093.653	2.0	106545.366	2.0
1341.6088	15.00	-2.32	70391.600	2.5	77843.300	1.5
1341.6466	17.00	-1.49	84688.637	.5	92140.127	1.5
1341.7474	22.00	-4.86	36132.210	4.0	43583.140	3.0
1341.8195	23.00	-4.98	34619.520	2.5	42070.050	2.5
1341.8218	8.00	-1.20	99094.849	3.0	106545.366	2.0
1341.8665	7.00	-3.29	106758.731	.5	114209.000	.5
1341.8970	15.01	-2.44	124947.600	2.0	132397.700	2.0
1342.0116	17.00	.22	83894.037	3.5	91343.500	2.5
1342.0127	9.00	-.57	118427.823	1.5	125877.280	1.5
1342.0134	14.00	-1.71	57198.027	3.0	64647.480	3.0
1342.0974	26.00	-4.63	47106.463	4.0	54555.450	4.0
1342.1273	18.00	-2.29	113716.610	3.0	121165.431	3.0
1342.1396	14.00	-3.10	57198.027	3.0	64646.780	2.0
1342.1762	27.00	-2.75	45924.980	3.5	53373.530	3.5
1342.1861	26.00	-3.34	45833.240	4.0	53281.735	5.0
1342.2140	18.01	-3.97	202149.110	2.5	209597.450	1.5
1342.2320	22.01	-2.64	63444.760	3.5	70893.000	3.5
1342.3349	14.00	-3.17	54871.031	1.0	62318.700	0.0
1342.3621	28.00	-4.46	43258.792	4.0	50706.310	4.0
1342.3829	55.00	-2.09	14499.257	0.0	21948.696	0.0
1342.4880	18.01	.13	181594.050	2.5	189040.870	1.5
1342.5276	25.00	-3.54	55186.170	2.5	62632.770	3.5
1342.5854	7.01	.05	203258.980	2.0	210705.260	2.0
1342.7259	13.01	-1.09	134917.300	1.0	142362.800	1.0
1342.7259	13.01	-.62	134917.300	1.0	142362.800	2.0
1342.8990	7.00	-3.03	106814.459	2.5	114259.000	1.5
1342.9071	14.00	-2.18	51612.012	0.0	59056.508	1.0
1342.9190	23.00	-4.32	18805.050	.5	26249.480	1.5
1342.9284	7.00	-2.41	107445.622	1.5	114890.000	1.5
1342.9605	7.00	-.80	86137.320	.5	93581.520	.5
1342.9749	27.00	-3.97	46260.020	1.5	53704.140	2.5
1342.9785	15.00	-2.17	70689.400	3.5	78133.500	2.5
1342.9803	28.00	-3.79	47328.850	2.0	54772.940	3.0
1342.9912	6.00	-2.29	81105.030	1.0	88549.060	1.0
1343.0146	28.00	-2.81	50142.800	3.0	57586.700	2.0
1343.0867	26.00	-3.31	51076.680	4.0	58520.180	4.0
1343.0867	13.01	-1.28	134917.300	1.0	142360.800	0.0
1343.1578	26.00	-3.06	45726.104	5.0	53169.210	6.0
1343.2158	14.00	-1.26	54205.090	2.0	61647.875	2.0
1343.2230	14.00	-2.30	49060.601	1.0	56503.346	2.0
1343.2311	15.00	-2.78	68246.500	2.5	75689.200	1.5
1343.2762	25.02	-1.18	208751.600	4.5	216194.050	5.5
1343.3088	14.00	-1.76	54205.090	2.0	61647.360	1.0
1343.3773	18.01	-.90	187589.230	2.5	195031.120	2.5
1343.4206	25.02	-1.99	209091.410	5.5	216533.060	6.5
1343.5337	22.00	-8.01	14028.470	2.0	21469.494	3.0
1343.6391	23.02	-3.85	152939.200	2.5	160379.640	2.5
1343.6608	7.01	.06	202861.360	3.0	210301.680	3.0
1343.7331	9.00	-.78	130016.100	2.5	137456.020	3.5
1343.8631	30.02	-3.41	257566.100	1.0	265005.300	2.0
1343.8631	15.00	-1.92	68260.600	.5	75699.800	.5
1343.8649	22.00	-4.76	41585.240	3.0	49024.430	3.0
1343.8651	26.00	-2.45	44022.518	4.0	51461.707	4.0
1343.9059	28.00	-2.96	49327.560	3.0	56766.523	4.0
1343.9480	6.00	-2.64	81105.030	1.0	88543.760	0.0
1343.9895	29.01	-.98	141204.100	3.0	148642.600	2.0
1344.0031	7.00	-4.49	103622.480	.5	111060.905	.5
1344.0419	24.00	-4.40	46524.840	2.0	53963.050	1.0
1344.0582	22.01	-2.75	63168.230	2.5	70606.350	2.5
1344.0969	26.00	-2.22	44166.240	3.0	51604.146	3.0
1344.1890	28.00	-1.60	48735.308	2.0	56172.704	3.0
1344.2064	28.01	-4.74	113753.040	4.5	121190.340	4.5
1344.2932	22.00	-4.94	40670.600	2.0	48107.420	2.0
1344.2950	24.00	-1.15	41224.780	4.0	48661.590	3.0
1344.3745	6.00	-2.13	81105.030	1.0	88541.400	2.0
1344.4590	20.00	-5.00	43933.477	1.0	51369.380	2.0
1344.5774	28.00	-1.92	47139.392	2.0	54574.640	1.0
1344.5788	9.00	-2.16	130016.100	2.5	137451.340	2.5
1344.6584	18.01	-.43	211725.600	2.5	219160.400	2.5
1344.6711	28.01	-4.89	128853.870	2.5	136288.600	2.5
1344.6747	18.01	-1.74	211725.690	3.5	219160.400	2.5
1344.7344	15.00	-3.70	65450.020	1.5	72884.400	2.5
1344.7380	25.00	-3.12	57485.970	2.5	64920.330	3.5
1344.7545	7.00	-1.66	106758.731	.5	114193.000	1.5
1344.7801	26.00	-4.42	46727.055	2.0	54161.182	3.0
1344.8122	7.00	-.94	96787.650	1.5	104221.600	1.5
1344.8145	26.00	-4.29	46313.610	2.0	53747.547	3.0
1344.8368	17.00	-3.70	88272.720	.5	95706.534	1.5
1344.8510	7.00	-4.80	104886.070	.5	112319.805	1.5
1344.8861	7.00	-1.64	106814.459	2.5	114248.000	3.5
1344.9697	20.00	-1.58	36547.688	0.0	43980.767	1.0
1345.0293	18.01	.45	182222.030	1.5	189654.780	2.5
1345.1321	22.00	-1.84	18061.540	1.0	25493.722	2.0
1345.2220	26.00	-3.82	47693.289	3.0	55124.974	3.0
1345.2410	26.00	-3.63	46137.140	3.0	53568.720	2.0
1345.2633	22.00	-4.73	33655.853	2.0	41087.310	3.0
1345.3406	24.00	-1.02	41393.470	5.0	48824.500	4.0
1345.4070	7.00	-3.36	106778.337	1.5	114209.000	.5
1345.5521	37.00	-1.35	23792.591	0.0	31224.485	0.0
1345.5800	7.00	-3.38	103735.450	2.5	111165.158	1.5
1345.6068	28.01	-4.02	109038.840	1.5	116468.400	1.5
1345.6689	7.00	-2.25	107628.283	1.5	115057.500	1.5
1345.7035	26.00	-3.18	45726.104	5.0	53155.130	4.0
1345.7356	37.00	-2.30	23792.591	0.0	31223.471	0.0
1345.7807	15.00	-2.68	68260.600	.5	75689.200	1.5
1345.7823	14.00	-3.28	53387.334	1.0	60815.925	2.0
1345.7932	7.00	-3.02	107588.469	.5	115017.000	.5
1345.7932	7.00	-2.03	107588.469	.5	115017.000	1.5
1345.8903	12.00	-2.49	53134.642	2.0	60562.637	2.0
1345.8903	12.00	-3.65	53134.642	2.0	60562.637	3.0
1345.8903	12.00	-1.25	53134.642	2.0	60562.637	3.0
1345.8948	22.00	-4.18	35652.950	3.0	43080.920	2.0
1345.9160	26.00	-3.13	43922.652	3.0	51350.505	4.0
1345.9782	28.01	-2.56	113753.040	4.5	121180.550	5.5
1346.0271	9.00	-3.42	130374.860	1.5	137802.100	2.5
1346.0525	29.01	.01	141204.100	3.0	148631.200	3.0
1346.0814	9.00	-1.50	130016.100	2.5	137443.040	2.5
1346.0887	29.01	-.18	140589.400	0.0	148016.300	1.0
1346.1612	13.01	-1.02	139916.700	1.0	147343.200	2.0
1346.2486	20.00	-1.11	36554.749	1.0	43980.767	1.0
1346.3345	18.00	-2.27	113643.260	1.0	121068.804	1.0
1346.4331	15.01	-2.29	124947.600	2.0	132372.600	1.0
1346.4513	17.00	-2.49	90948.530	1.5	98373.430	2.5
1346.5347	17.00	-2.27	90948.530	1.5	98372.970	1.5
1346.5601	10.01	-2.26	321422.850	4.5	328847.150	3.5
1346.5783	10.01	-2.38	321422.850	4.5	328847.050	4.5
1346.5837	10.01	-1.60	321422.880	5.5	328847.050	4.5
1346.6091	26.01	-2.54	80177.870	1.5	87601.900	1.5
1346.6291	10.01	-1.81	321423.230	4.5	328847.150	3.5
1346.6309	10.01	-2.68	321423.240	3.5	328847.150	3.5
1346.6472	10.01	-3.48	321423.230	4.5	328847.050	4.5
1346.6490	10.01	-3.59	321423.240	3.5	328847.050	4.5
1346.6496	17.00	-2.35	88188.550	1.5	95612.357	1.5
1346.6668	18.00	-2.00	115366.900	1.0	122790.612	0.0
1346.7397	23.00	-1.80	15664.750	1.5	23088.060	1.5
1346.7433	28.01	-4.11	122812.970	3.5	130236.260	2.5
1346.7923	21.00	-1.70	37486.480	1.5	44909.500	2.5
1346.9103	9.00	-2.97	130016.100	2.5	137438.470	3.5
1346.9371	26.00	-3.83	44415.057	4.0	51837.279	3.0
1347.0019	7.00	-2.68	106868.635	3.5	114290.500	2.5
1347.0500	28.01	-4.81	128867.000	3.5	136288.600	2.5
1347.0716	17.00	-3.42	84485.309	1.5	91906.790	2.5
1347.1151	17.00	-1.99	87979.490	3.5	95400.731	2.5
1347.2410	22.00	-2.12	28788.372	4.0	36208.920	4.0
1347.2426	26.00	-2.44	44183.607	2.0	51604.146	3.0
1347.2715	18.01	.49	183090.810	1.5	190511.190	2.5
1347.2855	18.00	-2.01	117183.654	2.0	124603.957	2.0
1347.2969	25.01	-4.21	79540.760	1.0	86961.000	1.0
1347.3495	27.00	-2.14	43847.980	3.5	51267.930	4.5
1347.3652	14.00	-3.08	56978.256	1.0	64398.120	2.0
1347.3768	25.02	-3.98	208743.100	2.5	216162.900	1.5
1347.4102	26.00	-2.53	44285.436	2.0	51705.052	2.0
1347.4367	28.01	-2.28	113623.100	.5	121042.570	1.5
1347.4458	28.01	-4.53	113623.100	.5	121042.520	1.5
1347.5057	10.01	-2.93	321428.060	3.5	328847.150	3.5
1347.5239	10.01	-4.37	321428.060	3.5	328847.050	4.5
1347.5421	25.00	-4.79	37737.220	3.5	45156.110	2.5
1347.5742	14.00	-4.10	57198.027	3.0	64616.740	2.0
1347.5784	24.00	-3.80	47786.100	2.0	55204.790	3.0
1347.6560	20.00	-4.06	43933.477	1.0	51351.740	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1347.7037	26.01	-3.70	54904.500	3.5	62322.500	3.5
1347.7292	9.00	-2.98	130374.860	1.5	137792.720	2.5
1347.7492	8.01	.25	248425.350	.5	255843.100	1.5
1347.7508	7.00	-2.42	106814.459	2.5	114232.200	1.5
1347.7619	23.00	-3.39	34747.060	3.5	42164.740	3.5
1347.7650	7.00	-2.22	106778.337	1.5	114196.000	2.5
1347.7873	25.00	-4.44	49888.080	3.5	57305.620	3.5
1347.8351	22.00	-2.92	28596.293	1.0	36013.570	2.0
1347.8836	28.01	-3.00	108368.050	2.5	115785.060	1.5
1347.9672	18.01	.04	183090.810	1.5	190507.360	1.5
1347.9781	25.01	-3.90	79544.510	2.0	86961.000	1.0
1348.0296	26.00	-3.78	46744.975	3.0	54161.182	3.0
1348.0490	15.00	-2.64	72884.400	2.5	80300.500	3.5
1348.0654	10.01	-3.66	321431.040	5.5	328847.050	4.5
1348.2670	20.00	-4.94	39333.382	0.0	46748.283	1.0
1348.3090	23.00	-6.28	14548.830	2.5	21963.500	3.5
1348.3103	7.00	-2.26	106778.337	1.5	114193.000	1.5
1348.3288	14.00	-2.84	57468.239	2.0	64882.800	2.0
1348.3727	20.02	-1.39	363118.750	3.0	370533.070	4.0
1348.5000	22.00	-2.05	22404.690	3.0	29818.310	3.0
1348.6198	20.00	-4.46	39335.322	1.0	46748.283	1.0
1348.6344	14.00	-2.71	54185.264	1.0	61598.145	2.0
1348.6418	9.00	-3.94	130374.860	1.5	137787.700	1.5
1348.6473	23.00	-9.07	11100.650	4.5	18513.460	4.5
1348.6873	10.01	-3.80	321434.560	2.5	328847.150	3.5
1348.6913	22.00	-4.92	28788.372	4.0	36200.940	5.0
1348.7346	22.00	-3.88	41624.130	4.0	49036.460	4.0
1348.7423	26.00	-4.36	43922.652	3.0	51334.940	4.0
1348.7983	23.00	-4.09	30694.340	3.5	38106.320	2.5
1348.7983	26.01	-4.72	58666.360	3.5	66078.340	2.5
1348.8002	27.00	-4.16	44658.030	1.5	52070.000	2.5
1348.8693	25.02	-.21	208650.540	3.5	216062.130	2.5
1348.9184	24.00	-4.67	20523.940	5.0	27935.260	4.0
1348.9468	17.00	-4.34	94314.206	1.5	101725.370	1.5
1348.9639	20.02	-2.00	362893.470	2.0	370304.540	2.0
1349.0113	28.01	-2.59	112422.190	5.5	119833.000	5.5
1349.0586	15.00	-2.48	58174.450	1.5	65585.000	2.5
1349.1606	27.00	-4.49	46872.740	3.5	54282.730	2.5
1349.1806	23.00	-3.08	30832.580	2.5	38242.460	3.5
1349.2552	22.01	-4.64	25193.040	2.5	32602.510	1.5
1349.3244	28.01	-3.79	112906.930	1.5	120316.020	.5
1349.3330	17.00	-4.13	88188.550	1.5	95597.593	.5
1349.3572	22.00	-1.97	34535.040	2.0	41943.950	1.0
1349.3772	19.02	-2.74	243448.200	1.5	250857.000	.5
1349.3878	26.00	-3.79	46137.140	3.0	53545.882	3.0
1349.4093	5.00	-3.48	57786.376	.5	65195.000	1.5
1349.4137	15.01	-2.76	131632.000	3.0	139040.600	4.0
1349.4392	21.00	-1.34	37717.110	3.5	45125.570	4.5
1349.4432	26.00	-4.84	43922.652	3.0	51331.090	2.0
1349.4842	22.00	-3.78	37172.947	1.0	44581.160	2.0
1349.4860	20.00	-4.24	39340.080	2.0	46748.283	1.0
1349.5086	26.00	-1.13	39969.830	3.0	47377.909	4.0
1349.5256	5.00	-3.23	57787.014	1.5	65195.000	2.5
1349.5256	5.00	-4.18	57787.014	1.5	65195.000	1.5
1349.6323	15.01	-2.29	132397.700	2.0	139805.100	3.0
1349.6469	25.00	-4.61	57305.620	3.5	64712.940	2.5
1349.6487	24.00	-4.25	35501.260	3.0	42908.570	4.0
1349.6578	18.01	-2.71	187589.230	2.5	194996.490	1.5
1349.6632	14.02	.97	242411.700	4.0	249818.930	5.0
1349.6724	22.00	-3.65	33680.130	3.0	41087.310	3.0
1349.7653	14.02	.50	242411.270	3.0	249817.940	4.0
1349.7817	14.02	.60	242411.270	3.0	249817.850	4.0
1349.8072	14.02	.74	242410.880	2.0	249817.320	3.0
1349.8209	7.00	-2.37	106868.635	3.5	114275.000	3.5
1349.8437	14.02	-.68	242411.700	4.0	249817.940	4.0
1349.8441	17.00	-2.57	84132.262	2.5	91538.500	1.5
1349.8473	25.02	-3.05	208743.100	2.5	216149.320	3.5
1349.8601	14.02	-.58	242411.700	4.0	249817.850	4.0
1349.8783	14.02	-.32	242411.270	3.0	249817.320	3.0
1349.9489	18.00	-.65	106237.597	2.0	113643.260	1.0
1349.9516	20.00	-.88	36575.119	2.0	43980.767	1.0
1349.9567	14.02	-2.12	242411.700	4.0	249817.320	3.0
1349.9695	28.00	-2.41	51124.800	3.0	58530.350	3.0
1349.9913	25.00	-1.94	23719.520	1.5	31124.950	.5
1349.9922	26.00	-4.49	46727.055	2.0	54132.480	1.0
1350.0031	7.00	-2.42	106868.635	3.5	114274.000	2.5
1350.0333	29.01	-4.08	118163.500	2.0	125568.700	1.0
1350.1281	7.01	-.88	202861.360	3.0	210266.040	2.0
1350.2030	7.00	-3.30	106758.731	.5	114163.000	1.5
1350.2265	6.00	-.43	70743.950	1.0	78148.090	2.0
1350.3136	7.00	-1.33	106778.337	1.5	114182.000	2.5
1350.3296	28.00	-1.87	47328.850	2.0	54732.425	2.0
1350.3338	18.00	-3.16	117151.387	1.0	124554.939	1.0
1350.3635	26.00	-3.01	44664.061	2.0	52067.450	2.0
1350.3779	9.00	-1.52	130059.400	.5	137462.710	1.5
1350.4207	18.00	.41	105617.315	2.0	113020.390	3.0
1350.5932	23.00	-4.33	19078.150	3.5	26480.280	3.5
1350.6041	25.02	-.79	209289.760	6.5	216691.830	5.5
1350.6315	28.01	-1.13	129271.720	3.5	136673.640	4.5
1350.6534	22.00	-5.00	36065.750	3.0	43467.550	2.0
1350.7503	7.00	-1.51	106758.731	.5	114160.000	1.5
1350.8541	20.02	-2.21	336749.110	1.0	344149.810	2.0
1350.9272	22.00	-2.83	41624.130	4.0	49024.430	3.0
1350.9436	6.00	-4.58	81769.790	2.0	89170.000	1.0
1351.0676	7.00	-3.32	107588.469	.5	114988.000	.5
1351.0676	7.00	-2.48	107588.469	.5	114988.000	1.5
1351.0915	29.01	-2.44	139028.200	2.0	146427.600	1.0
1351.1170	23.00	-2.29	15688.800	2.5	23088.060	1.5
1351.1196	22.00	-4.39	32013.534	6.0	39412.780	5.0
1351.1645	18.01	.49	211761.400	3.5	219160.400	2.5
1351.2765	26.00	-4.16	47092.693	3.0	54491.080	3.0
1351.2778	25.00	-4.56	51718.220	1.5	59116.600	2.5
1351.3052	28.01	-3.42	128803.230	2.5	136201.460	3.5
1351.3472	29.01	.10	141244.600	1.0	148642.600	2.0
1351.3983	25.02	-.20	208751.600	4.5	216149.320	3.5
1351.4696	22.00	-3.48	38670.710	4.0	46068.040	4.0
1351.4897	24.00	-4.41	28637.000	3.0	36034.220	3.0
1351.6011	20.02	-1.73	363118.750	3.0	370515.360	3.0
1351.7053	25.01	-4.69	79540.760	1.0	86936.800	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1351.7490	26.00	-4.82	40534.180	3.0	47929.981	4.0
1351.8049	26.00	-3.75	53281.735	5.0	60677.230	5.0
1351.8186	24.00	-3.83	46637.210	3.0	54032.630	2.0
1351.8551	10.01	-1.89	321422.850	4.5	328818.070	3.5
1351.9045	6.00	-3.86	81769.790	2.0	89164.740	1.0
1351.9210	28.01	-1.77	127867.130	4.5	135261.990	4.5
1351.9246	10.01	-2.21	321423.230	4.5	328818.070	3.5
1351.9264	10.01	-2.52	321423.240	3.5	328818.070	3.5
1351.9301	10.01	-2.06	321423.240	3.5	328818.050	2.5
1351.9667	24.00	-2.38	47814.400	3.0	55209.010	4.0
1351.9868	9.01	-3.86	270508.290	2.0	277902.790	2.0
1352.0819	7.00	-1.66	96750.810	1.5	104144.790	.5
1352.0892	28.01	-3.97	98467.250	3.5	105861.190	2.5
1352.0910	26.01	-2.44	80177.870	1.5	87571.800	2.5
1352.1194	7.00	-4.33	103667.130	1.5	111060.905	.5
1352.1327	22.00	-2.32	28702.768	3.0	36096.470	3.0
1352.1532	6.00	-3.59	81105.030	1.0	88498.620	2.0
1352.1718	22.00	-1.69	34535.040	2.0	41928.528	2.0
1352.2044	28.00	-2.14	51124.800	3.0	58518.110	4.0
1352.2392	22.00	-2.98	36351.430	5.0	43744.550	4.0
1352.2510	14.00	-1.61	54205.090	2.0	61598.145	2.0
1352.3690	6.00	-4.53	81769.790	2.0	89162.200	2.0
1352.3866	14.00	-4.53	54205.090	2.0	61597.404	3.0
1352.3910	25.01	-3.68	79544.510	2.0	86936.800	2.0
1352.3996	28.00	-4.09	42954.234	2.0	50346.477	2.0
1352.4020	21.00	-4.86	33278.640	3.5	40670.870	4.5
1352.4667	22.00	-1.78	18145.400	2.0	25537.276	1.0
1352.6270	15.01	-2.63	131353.300	2.0	138744.300	3.0
1352.6929	22.00	-4.39	35757.510	4.0	43148.150	3.0
1352.7075	9.00	-3.95	130059.400	.5	137449.960	1.5
1352.7387	24.00	-3.47	47814.400	3.0	55204.790	3.0
1352.7564	14.00	-2.07	54257.582	3.0	61647.875	2.0
1352.8082	10.01	-2.81	321428.060	3.5	328818.070	3.5
1352.8101	10.01	-3.87	321428.070	2.5	328818.070	3.5
1352.8119	10.01	-2.21	321428.060	3.5	328818.050	2.5
1352.8137	10.01	-3.83	321428.070	2.5	328818.050	2.5
1353.0298	28.01	-4.22	130184.390	2.5	137573.190	3.5
1353.0449	7.00	-3.35	107628.283	1.5	115017.000	.5
1353.0449	7.00	-3.42	107628.283	1.5	115017.000	1.5
1353.1113	18.00	-3.11	118906.665	2.0	126295.020	3.0
1353.1332	18.00	-1.46	118906.665	2.0	126294.900	3.0
1353.2679	29.01	.10	139028.200	2.0	146415.700	2.0
1353.2843	26.00	-3.56	44826.920	0.0	52214.330	1.0
1353.2862	22.00	-3.94	41337.430	2.0	48724.830	1.0
1353.2990	28.01	-4.97	130187.810	6.5	137575.140	5.5
1353.3411	29.01	-4.54	131206.000	0.0	138593.100	1.0
1353.3759	22.00	-4.36	41337.430	2.0	48724.340	2.0
1353.3943	25.00	-3.01	50099.160	1.5	57485.970	2.5
1353.4474	25.01	-3.29	79550.280	3.0	86936.800	2.0
1353.4628	22.00	-4.57	33700.874	4.0	41087.310	3.0
1353.5016	14.00	-4.16	56978.256	1.0	64364.480	2.0
1353.5574	28.01	-4.80	106022.790	.5	113408.710	1.5
1353.5592	6.00	-1.99	81769.790	2.0	89155.700	3.0
1353.5869	26.00	-3.66	44664.061	2.0	52049.820	2.0
1353.7702	22.00	-8.44	8492.421	1.0	15877.180	2.0
1353.7791	25.00	-1.73	55368.660	1.5	62753.370	2.5
1353.7877	7.00	-2.49	106778.337	1.5	114163.000	1.5
1353.8488	9.02	-4.94	457555.170	1.5	464939.500	2.5
1353.8506	9.01	-1.34	270508.290	2.0	277892.610	3.0
1353.9685	26.00	-4.28	32873.623	4.0	40257.300	5.0
1353.9992	10.01	-3.69	321434.560	2.5	328818.070	3.5
1354.0029	10.01	-2.55	321434.560	2.5	328818.050	2.5
1354.0324	28.00	-1.64	49327.560	3.0	56710.889	2.0
1354.0725	27.00	-3.89	44658.030	1.5	52041.140	.5
1354.0982	8.01	.52	248514.230	1.5	255897.200	2.5
1354.1092	21.00	-2.84	31275.320	3.5	38658.230	4.5
1354.1165	28.01	-1.35	122120.370	5.5	129503.240	4.5
1354.1496	23.02	-4.82	152939.200	2.5	160321.890	2.5
1354.1679	10.01	-2.23	276511.820	.5	283894.410	.5
1354.3380	7.00	-2.55	106778.337	1.5	114160.000	1.5
1354.3380	7.00	-1.55	106778.337	1.5	114160.000	2.5
1354.3604	7.00	-1.83	106814.459	2.5	114196.000	2.5
1354.4027	28.01	-1.19	123434.600	4.5	130815.910	3.5
1354.4146	18.00	-1.13	106087.305	1.0	113468.550	2.0
1354.5286	14.00	-3.37	57017.496	2.0	64398.120	2.0
1354.5653	12.00	-2.73	52556.206	0.0	59936.630	1.0
1354.6083	28.01	-3.56	130187.810	6.5	137568.000	7.5
1354.7035	26.00	-.88	39625.784	4.0	47005.455	5.0
1354.7239	6.00	-1.97	81769.790	2.0	89149.350	1.0
1354.7598	7.00	-1.48	106868.635	3.5	114248.000	3.5
1354.8708	6.00	-4.31	71352.510	0.0	78731.270	1.0
1354.9110	7.00	-3.92	106814.459	2.5	114193.000	1.5
1354.9497	18.01	-1.25	172213.800	1.5	179592.130	2.5
1355.0776	26.00	-3.96	46889.126	4.0	54266.760	5.0
1355.0820	29.01	-2.44	115639.020	2.0	123016.630	3.0
1355.1022	29.01	.04	140984.200	1.0	148361.700	1.0
1355.1283	22.00	-3.25	18061.540	1.0	25438.898	2.0
1355.2271	14.02	.09	250636.550	2.0	258013.370	3.0
1355.2339	17.00	-4.17	94468.857	.5	101845.640	1.5
1355.2447	17.00	-.71	94482.236	2.5	101858.960	2.5
1355.2539	7.00	-.83	106868.635	3.5	114245.309	4.5
1355.2793	28.00	-.74	43089.636	5.0	50466.172	4.0
1355.3568	26.00	-2.84	44378.420	1.0	51754.534	1.0
1355.3925	26.00	-4.92	48350.620	1.0	55726.540	0.0
1355.4002	26.00	-3.75	44664.061	2.0	52039.939	1.0
1355.4274	28.01	-3.39	129297.910	3.5	136673.640	4.5
1355.4949	18.00	-3.16	117151.387	1.0	124526.750	0.0
1355.5193	27.00	-4.94	44658.030	1.5	52033.260	1.5
1355.6097	22.00	-2.52	28638.832	2.0	36013.570	2.0
1355.6272	26.00	-9.58	11976.239	4.0	19350.882	5.0
1355.6516	27.00	-2.66	46329.630	2.5	53704.140	2.5
1355.6884	28.01	-3.31	128827.150	3.5	136201.460	3.5
1355.7049	22.00	-3.57	36208.920	4.0	43583.140	3.0
1355.7252	6.00	-4.40	81769.790	2.0	89143.900	3.0
1355.7546	26.01	-4.61	54870.620	2.5	62244.570	1.5
1355.7800	3.00	-.82	30925.000	0.0	38300.828	0.0
1355.7803	27.00	-3.82	46562.870	1.5	53936.680	2.5
1355.8071	26.00	-2.76	48531.896	3.0	55905.560	4.0
1355.8182	14.00	-3.33	56978.256	1.0	64351.860	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1355.8833	22.00	-8.20	8602.340	2.0	15975.590	3.0
1355.9531	6.00	-2.98	81769.790	2.0	89142.660	2.0
1355.9678	6.00	-.89	70743.950	1.0	78116.740	1.0
1355.9923	28.00	-2.52	43933.428	2.0	51306.085	3.0
1356.0212	27.00	-2.27	46329.630	2.5	53702.130	3.5
1356.0838	18.01	-2.62	183797.360	2.5	191169.520	1.5
1356.0948	13.01	-1.55	139916.700	1.0	147288.800	0.0
1356.1849	26.00	-4.69	43922.652	3.0	51294.262	3.0
1356.2015	25.00	-4.23	55107.520	3.5	62479.040	4.5
1356.2217	25.02	-1.53	208935.880	4.5	216307.290	4.5
1356.2448	18.00	-2.65	117183.654	2.0	124554.939	1.0
1356.2477	7.00	-2.25	106758.731	.5	114130.000	.5
1356.2824	22.00	-4.65	36096.470	3.0	43467.550	2.0
1356.2968	28.00	-1.16	47328.850	2.0	54699.852	3.0
1356.3248	28.01	-4.22	130751.030	5.5	138121.880	4.5
1356.3982	16.00	-1.87	73910.309	1.0	81280.760	2.0
1356.4046	28.00	-1.41	43464.019	1.0	50834.435	2.0
1356.6605	26.00	-3.58	46888.494	2.0	54257.520	2.0
1356.7021	25.02	.50	209323.030	6.5	216691.830	5.5
1356.7085	26.00	-.85	43434.585	3.0	50803.350	2.0
1356.7886	23.00	-4.49	30635.600	2.5	38003.930	1.5
1356.8148	7.00	-2.75	106778.337	1.5	114146.525	2.5
1356.8255	15.00	-3.21	65373.470	.5	72741.600	1.5
1356.9340	7.00	-2.17	106814.459	2.5	114182.000	2.5
1357.0737	16.00	-1.64	73913.978	2.0	81280.760	2.0
1357.0833	28.01	.26	123434.600	4.5	130801.330	4.5
1357.1146	26.00	-2.24	40594.413	4.0	47960.973	4.0
1357.1419	28.00	-1.74	47208.228	1.0	54574.640	1.0
1357.1460	23.00	-9.61	10892.500	3.5	18258.890	2.5
1357.1496	6.00	-2.87	71364.900	1.0	78731.270	1.0
1357.1994	13.01	-2.43	139916.700	1.0	147282.800	1.0
1357.1994	13.01	-1.96	139916.700	1.0	147282.800	2.0
1357.2034	55.00	-2.01	21765.650	0.0	29133.742	0.0
1357.3415	26.00	-3.50	33765.291	2.0	41130.620	1.0
1357.3523	23.00	-2.17	36700.780	2.5	44066.050	3.5
1357.3639	18.00	-.79	107496.463	1.0	114861.670	0.0
1357.3947	28.01	-2.66	112906.930	1.5	120271.970	2.5
1357.4131	27.00	-2.11	46329.630	2.5	53694.570	3.5
1357.4592	23.00	-4.42	14949.300	4.5	22313.990	5.5
1357.4611	22.00	-4.96	40844.190	3.0	48208.870	3.0
1357.5182	28.01	-4.57	130757.510	4.5	138121.880	4.5
1357.5311	28.01	-4.87	130208.890	3.5	137573.190	3.5
1357.5311	28.01	-4.61	130208.890	3.5	137573.190	4.5
1357.5680	17.01	-3.04	150813.000	1.0	158177.100	1.0
1357.5929	26.00	-4.12	53393.715	4.0	60757.680	4.0
1357.6207	22.00	-8.42	14105.680	3.0	21469.494	3.0
1357.6546	24.00	-2.09	36895.730	3.0	44259.360	3.0
1357.6657	26.01	-4.35	86124.140	4.5	93487.710	3.5
1357.6963	17.00	-1.89	94482.236	2.5	101845.640	1.5
1357.7011	7.00	-3.30	107445.622	1.5	114809.000	.5
1357.7155	25.00	-4.09	37630.620	4.5	44993.920	3.5
1357.8119	22.00	-2.62	28596.293	1.0	35959.070	1.0
1357.8879	26.00	-4.53	43499.485	4.0	50861.850	3.0
1357.9054	26.00	-4.03	47017.170	3.0	54379.440	3.0
1358.0253	25.00	-3.88	42053.730	2.5	49415.350	2.5
1358.0393	26.00	-4.32	44378.420	1.0	51739.964	2.0
1358.0418	7.00	-2.40	107588.469	.5	114950.000	.5
1358.0418	7.00	-2.83	107588.469	.5	114950.000	1.5
1358.0887	7.00	-.99	106814.459	2.5	114175.736	3.5
1358.1323	7.00	-.50	86220.480	1.5	93581.520	.5
1358.1341	6.00	-1.54	70743.950	1.0	78104.980	0.0
1358.1406	26.00	-4.69	53393.715	4.0	60754.710	4.0
1358.1415	14.02	-1.39	227081.190	1.0	234442.180	2.0
1358.1472	14.00	-1.90	54871.031	1.0	62231.990	2.0
1358.1860	16.00	-1.50	73920.011	3.0	81280.760	2.0
1358.1951	26.01	-3.83	72524.620	1.5	79885.320	2.5
1358.2578	17.00	-2.93	94827.150	2.5	102187.510	2.5
1358.3765	7.00	-3.65	107628.283	1.5	114988.000	.5
1358.3765	7.00	-2.82	107628.283	1.5	114988.000	1.5
1358.3765	7.00	-2.56	107628.283	1.5	114988.000	2.5
1358.3907	28.01	-4.63	130215.500	4.5	137575.140	5.5
1358.4003	14.00	-2.67	54257.582	3.0	61617.170	4.0
1358.5384	27.00	-3.04	44201.920	2.5	51560.760	2.5
1358.6251	17.00	-1.02	85244.330	.5	92602.700	.5
1358.6934	29.01	-.12	139217.300	2.0	146575.300	2.0
1358.6990	14.02	-.21	227084.210	2.0	234442.180	2.0
1358.7710	7.00	.02	96864.020	2.5	104221.600	1.5
1358.8067	14.00	-3.56	54205.090	2.0	61562.477	3.0
1358.8321	55.00	-.51	11178.270	0.0	18537.531	0.0
1358.8449	26.00	-4.89	50456.790	3.0	57813.970	3.0
1358.8522	7.00	-.38	96787.650	1.5	104144.790	.5
1358.8966	25.00	-1.84	23719.520	1.5	31076.420	1.5
1358.9003	15.00	-1.49	65450.020	1.5	72806.900	2.5
1358.9058	25.00	-3.00	56189.450	4.5	63546.300	3.5
1358.9483	28.01	-3.89	130765.260	3.5	138121.880	4.5
1358.9561	7.00	-2.67	104144.790	.5	111501.368	1.5
1359.0327	26.00	-4.76	44183.607	2.0	51539.770	2.0
1359.0333	21.00	-2.18	37553.340	2.5	44909.500	2.5
1359.0739	21.00	-2.97	31215.760	2.5	38571.700	3.5
1359.1285	26.00	-3.03	44664.061	2.0	52019.706	1.0
1359.1515	26.00	-2.76	44415.057	4.0	51770.577	3.0
1359.1813	14.00	-2.79	54871.031	1.0	62226.390	1.0
1359.2107	29.01	-1.14	141204.100	3.0	148559.300	2.0
1359.2412	22.00	-4.23	20062.980	1.0	27418.015	2.0
1359.2436	26.00	-4.97	47136.058	2.0	54491.080	3.0
1359.3345	25.00	-4.72	56490.790	2.5	63845.320	1.5
1359.4584	29.01	-3.81	115662.770	4.0	123016.630	3.0
1359.4695	13.01	-.80	135009.000	0.0	142362.800	1.0
1359.5323	14.02	.53	227088.720	3.0	234442.180	2.0
1359.5540	14.00	-1.15	57198.027	3.0	64551.370	4.0
1359.5822	25.01	-4.63	79544.510	2.0	86897.700	3.0
1359.6593	28.00	-2.69	42790.027	2.0	50142.800	3.0
1359.7912	22.00	-3.23	39686.100	2.0	47038.160	3.0
1359.7949	24.00	-3.29	28682.180	2.0	36034.220	3.0
1359.8647	7.00	-2.25	106778.337	1.5	114130.000	.5
1359.8763	27.00	-1.97	43847.980	3.5	51199.580	3.5
1359.9114	28.01	-1.64	112422.190	5.5	119773.600	6.5
1359.9330	18.00	-.68	107289.747	2.0	114641.040	2.0
1359.9671	22.00	-3.93	18037.225	4.0	25388.334	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1359.9687	15.01	-1.10	131689.500	4.0	139040.600	4.0
1359.9799	27.00	-1.68	45924.980	3.5	53276.020	4.5
1360.0058	30.02	-3.08	257962.500	2.0	265313.400	2.0
1360.0372	25.00	-2.65	17451.520	2.5	24802.250	3.5
1360.0428	13.01	-1.40	135012.100	1.0	142362.800	1.0
1360.0428	13.01	-.92	135012.100	1.0	142362.800	2.0
1360.0653	26.00	-4.19	24335.764	2.0	31686.342	2.0
1360.2056	24.00	-3.61	46783.060	4.0	54132.880	3.0
1360.2065	55.00	-1.03	14596.845	0.0	21948.670	0.0
1360.2279	7.00	.13	97770.150	.5	105119.850	1.5
1360.4077	26.00	-4.87	45509.112	1.0	52857.840	1.0
1360.4129	13.01	-.98	135012.100	1.0	142360.800	0.0
1360.4259	26.00	-3.44	51361.460	3.0	58710.090	3.0
1360.4423	7.00	-2.20	106814.459	2.5	114163.000	1.5
1360.4829	22.00	-1.84	18145.400	2.0	25493.722	2.0
1360.4999	25.00	-2.38	55405.140	2.5	62753.370	2.5
1360.5222	27.00	-3.97	47128.960	2.5	54477.070	3.5
1360.5288	26.00	-4.77	46889.126	4.0	54237.200	4.0
1360.5981	25.02	-1.30	208935.880	4.5	216283.580	3.5
1360.6258	28.01	-3.88	128853.910	4.5	136201.460	3.5
1360.6425	29.01	-2.81	117883.140	4.0	125230.600	3.0
1360.6444	7.01	-2.33	206910.240	0.0	214257.690	1.0
1360.6499	25.01	-3.59	79550.280	3.0	86897.700	3.0
1360.6888	14.02	-.69	227081.190	1.0	234428.400	1.0
1360.6912	14.00	-3.09	49850.830	2.0	57198.027	3.0
1360.7306	14.00	-3.26	57017.496	2.0	64364.480	2.0
1360.7832	17.01	-4.16	140759.000	2.0	147605.700	3.0
1360.8438	17.00	-2.17	88188.550	1.5	95534.923	.5
1360.9333	6.00	-3.12	71385.380	2.0	78731.270	1.0
1360.9532	9.00	-.26	118936.797	1.5	126282.580	1.5
1360.9600	26.00	-3.49	46720.824	4.0	54066.570	4.0
1360.9980	7.00	-4.44	106814.459	2.5	114160.000	2.5
1361.0241	15.01	-.28	123456.300	1.0	130801.700	1.0
1361.0723	29.01	-3.91	108014.660	3.0	115359.800	4.0
1361.2031	14.00	-2.84	56978.256	1.0	64322.690	0.0
1361.2483	14.02	-.22	227084.210	2.0	234428.400	1.0
1361.3021	13.01	-.92	135018.900	2.0	142362.800	2.0
1361.3021	13.01	-.17	135018.900	2.0	142362.800	3.0
1361.3021	13.01	-2.10	135018.900	2.0	142362.800	1.0
1361.3095	18.01	-1.19	202253.590	1.5	209597.450	1.5
1361.3614	25.00	-2.50	57305.620	3.5	64649.200	3.5
1361.3953	26.00	-3.28	44411.137	1.0	51754.534	1.0
1361.5561	24.00	-1.78	47866.480	4.0	55209.010	4.0
1361.6006	14.00	-3.82	53362.240	3.0	60704.530	3.0
1361.7879	18.00	-2.42	115366.900	1.0	122708.180	2.0
1361.8617	14.00	-3.18	57541.918	1.0	64882.800	2.0
1361.9161	18.00	-2.42	118870.981	0.0	126211.570	1.0
1361.9209	14.00	-2.51	54257.582	3.0	61598.145	2.0
1362.0585	14.00	-1.32	54257.582	3.0	61597.404	3.0
1362.0928	17.00	-2.69	88272.720	.5	95612.357	1.5
1362.1089	28.01	-4.89	105838.060	3.5	113177.610	3.5
1362.1516	25.01	-3.02	79558.380	4.0	86897.700	3.0
1362.1553	29.01	.17	139217.300	2.0	146556.600	3.0
1362.2166	28.01	-4.31	128862.490	4.5	136201.460	3.5
1362.2444	16.01	-2.25	118146.500	1.5	125485.320	.5
1362.2583	18.00	.16	106087.305	1.0	113426.050	2.0
1362.3391	24.00	-4.37	47866.480	4.0	55204.790	3.0
1362.3743	23.00	-3.24	36580.460	1.5	43918.580	2.5
1362.4208	7.00	.41	97805.810	1.5	105143.680	2.5
1362.5377	25.00	-2.72	57485.970	2.5	64823.210	2.5
1362.6399	17.00	-3.84	94663.670	1.5	102000.360	1.5
1362.6603	21.00	-2.31	37486.480	1.5	44823.060	1.5
1362.6696	25.00	-1.77	17451.520	2.5	24788.050	2.5
1362.8405	21.00	-5.75	11520.150	1.5	18855.760	1.5
1362.8443	6.00	-2.86	81311.010	0.0	88646.600	1.0
1362.8609	27.00	-3.49	47091.140	.5	54426.640	1.5
1362.9167	30.02	-3.80	257491.100	0.0	264826.300	1.0
1362.9211	26.00	-2.95	45726.104	5.0	53061.280	5.0
1362.9724	28.01	-4.98	105838.060	3.5	113172.960	4.5
1363.0542	28.01	-4.56	128867.000	3.5	136201.460	3.5
1363.0653	29.01	-2.00	138593.100	1.0	145927.500	2.0
1363.0720	14.00	-2.48	57017.496	2.0	64351.860	1.0
1363.0739	14.00	-1.80	57017.496	2.0	64351.850	3.0
1363.1620	14.02	-.09	227081.190	1.0	234415.070	0.0
1363.1843	18.01	-1.12	194822.100	3.5	202155.860	2.5
1363.1936	14.00	-1.81	49399.670	1.0	56733.380	0.0
1363.1954	29.01	-.03	139241.600	1.0	146575.300	2.0
1363.3627	18.01	.60	195864.640	2.5	203197.440	3.5
1363.4993	7.00	-1.79	106814.459	2.5	114146.525	2.5
1363.5394	24.00	-1.36	50018.800	1.0	57350.650	2.0
1363.5692	6.00	-2.59	78293.490	1.0	85625.180	0.0
1363.6664	14.00	-1.04	56690.903	2.0	64022.070	3.0
1363.7608	28.01	-.46	123434.600	4.5	130765.260	3.5
1363.8097	14.00	-2.45	56690.903	2.0	64021.300	2.0
1363.8929	25.01	-4.14	69044.610	2.0	76374.560	2.0
1363.8973	22.00	-3.53	36000.144	4.0	43330.070	5.0
1363.9152	22.00	-1.93	41585.240	3.0	48915.070	2.0
1363.9431	25.02	-1.65	208819.640	3.5	216149.320	3.5
1363.9487	17.00	-2.11	91089.450	3.5	98419.100	2.5
1363.9877	17.00	-.95	91089.450	3.5	98418.890	3.5
1364.0681	14.00	-4.06	39955.053	2.0	47284.061	1.0
1364.0808	28.01	-2.24	126738.820	1.5	134067.760	1.5
1364.0938	8.01	-.36	248514.230	1.5	255843.100	1.5
1364.1019	26.00	-3.88	44411.137	1.0	51739.964	2.0
1364.1422	26.00	-4.11	51381.480	4.0	58710.090	3.0
1364.1534	28.01	-3.01	99040.750	1.5	106369.300	1.5
1364.1633	14.00	-2.86	56690.903	2.0	64019.400	3.0
1364.1776	25.00	-4.35	55186.170	2.5	62514.590	2.5
1364.2186	15.00	-2.35	68377.200	3.5	75705.400	3.5
1364.2540	6.00	-3.24	81311.010	0.0	88639.020	1.0
1364.2582	26.00	-2.83	44022.518	4.0	51350.505	4.0
1364.2930	25.00	-2.07	17451.520	2.5	24779.320	1.5
1364.3740	7.00	-4.25	106868.635	3.5	114196.000	2.5
1364.3880	26.00	-3.44	45833.240	4.0	53160.530	3.0
1364.4215	14.02	-.47	242639.380	5.0	249966.490	5.0
1364.4215	14.02	-.57	242639.380	5.0	249966.490	5.0
1364.4215	14.02	-2.37	242639.380	6.0	249966.490	5.0
1364.4215	14.02	1.33	242639.380	5.0	249966.490	6.0
1364.4215	14.02	-2.12	242639.380	5.0	249966.490	6.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1364.4215	14.02	-3.33	242639.380	5.0	249966.490	6.0
1364.4215	14.02	1.34	242639.380	5.0	249966.490	6.0
1364.4215	14.02	-.47	242639.380	6.0	249966.490	6.0
1364.4215	14.02	-.56	242639.380	6.0	249966.490	6.0
1364.4215	14.02	1.40	242639.380	6.0	249966.490	7.0
1364.4215	14.02	1.25	242639.380	4.0	249966.490	5.0
1364.4979	23.00	-5.99	14514.750	1.5	21841.450	2.5
1364.5105	26.00	-4.68	44378.420	1.0	51705.052	2.0
1364.5165	30.02	-2.90	257678.700	2.0	265005.300	2.0
1364.5388	28.01	-1.23	130236.260	2.5	137562.740	3.5
1364.5629	26.00	-4.96	40894.972	2.0	48221.323	1.0
1364.5817	23.00	-4.96	19026.340	2.5	26352.590	2.5
1364.7244	26.00	-4.45	44511.795	2.0	51837.279	3.0
1364.8382	17.00	-4.39	88272.720	.5	95597.593	.5
1364.9133	17.00	-3.23	94663.670	1.5	101988.140	2.5
1364.9152	26.00	-4.68	46600.800	1.0	53925.260	1.0
1364.9617	26.00	-3.23	53353.020	6.0	60677.230	5.0
1364.9755	26.00	-3.65	47555.584	1.0	54879.720	2.0
1365.0531	14.01	-.17	103861.000	.5	111184.720	.5
1365.0820	7.00	-4.93	104996.240	1.5	112319.805	1.5
1365.1239	6.00	-2.36	81325.760	1.0	88649.100	0.0
1365.2041	28.01	-.61	123434.600	4.5	130757.510	4.5
1365.2171	23.02	-4.25	154265.200	3.5	161588.040	3.5
1365.2389	22.00	-3.40	39715.437	3.0	47038.160	3.0
1365.2693	25.00	-3.13	50383.270	1.5	57705.830	.5
1365.2704	18.00	-2.04	114147.750	1.0	121470.304	0.0
1365.2945	7.00	-3.02	112826.900	3.5	120149.325	4.5
1365.3107	7.00	-3.67	112826.900	2.5	120149.238	3.5
1365.3107	7.00	-1.48	112826.900	3.5	120149.238	3.5
1365.3439	27.00	-2.20	43847.980	3.5	51170.140	4.5
1365.3620	22.00	-2.21	17995.750	0.0	25317.813	1.0
1365.3942	26.00	-3.54	45833.240	4.0	53155.130	4.0
1365.4025	26.00	-4.55	46744.975	3.0	54066.821	2.0
1365.4266	7.00	-2.70	107628.283	1.5	114950.000	.5
1365.4266	7.00	-2.14	107628.283	1.5	114950.000	1.5
1365.4493	26.00	-4.65	46744.975	3.0	54066.570	4.0
1365.4726	23.00	-3.32	19023.470	4.5	26344.940	4.5
1365.5024	6.00	-4.51	81769.790	2.0	89091.100	1.0
1365.5218	17.00	-2.32	94482.236	2.5	101803.442	2.5
1365.5490	9.00	-2.11	130141.650	1.5	137462.710	1.5
1365.5509	14.00	-1.54	56700.250	1.0	64021.300	2.0
1365.5901	6.00	-3.05	81325.760	1.0	88646.600	1.0
1365.6182	17.00	-2.99	88080.042	2.5	95400.731	2.5
1365.7024	22.00	-2.92	28638.832	2.0	35959.070	1.0
1365.8400	18.00	-1.82	115366.900	1.0	122686.400	2.0
1365.8587	27.00	-3.07	45876.580	2.5	53195.980	2.5
1365.8737	29.01	-3.82	117928.480	1.0	125247.800	2.0
1365.8774	18.00	-2.05	115366.900	1.0	122686.200	1.0
1365.8916	14.00	-1.61	53387.334	1.0	60706.558	1.0
1365.9278	25.02	-2.32	208743.100	2.5	216062.130	2.5
1365.9409	25.00	-4.08	55107.520	3.5	62426.480	3.5
1365.9875	26.00	-3.03	44285.436	2.0	51604.146	3.0
1366.1218	14.00	-2.27	57328.789	1.0	64646.780	2.0
1366.4132	28.01	.80	123434.600	4.5	130751.030	5.5
1366.5000	37.00	-.13	12816.545	0.0	20134.511	0.0
1366.5010	28.01	-2.64	112906.930	1.5	120222.890	1.5
1366.5178	27.00	-4.34	43952.060	5.5	51267.930	4.5
1366.5644	6.00	-2.37	81769.790	2.0	89085.410	1.0
1366.7177	13.01	-2.56	132776.400	0.0	140091.200	1.0
1366.7309	14.00	-1.27	49188.617	2.0	56503.346	2.0
1366.7364	29.01	-.20	141244.600	1.0	148559.300	2.0
1366.7569	18.01	-4.71	201608.820	3.5	208923.410	2.5
1366.8113	26.00	-2.65	29371.860	3.0	36686.159	4.0
1366.8242	28.01	-2.38	126738.820	1.5	134053.050	2.5
1366.8391	29.01	-3.58	129759.600	1.0	137073.750	2.0
1366.8597	7.00	-.39	97805.810	1.5	105119.850	1.5
1366.9344	9.00	-1.55	130149.070	.5	137462.710	1.5
1366.9849	13.02	-.61	201971.160	3.5	209284.530	3.5
1366.9849	13.02	.93	201971.160	3.5	209284.530	4.5
1366.9849	13.02	.82	201971.160	2.5	209284.530	3.5
1367.0032	26.00	-4.04	47136.058	2.0	54449.330	1.0
1367.0055	6.00	-2.40	81325.760	1.0	88639.020	1.0
1367.0260	23.00	-2.61	15000.840	5.5	22313.990	5.5
1367.0784	26.00	-4.81	47812.104	4.0	55124.974	3.0
1367.0806	22.00	-2.88	28896.062	5.0	36208.920	4.0
1367.1621	26.00	-4.80	44022.518	4.0	51334.940	4.0
1367.1622	7.00	-2.54	106758.731	.5	114071.153	1.5
1367.1831	6.00	-2.82	81769.790	2.0	89082.100	3.0
1367.1850	13.01	-2.23	139916.700	1.0	147229.000	1.0
1367.3158	28.01	-.66	130470.900	4.5	137782.500	4.5
1367.3345	29.01	.67	141204.100	3.0	148515.600	4.0
1367.3747	7.00	-4.85	105008.520	2.5	112319.805	1.5
1367.4075	24.00	-4.62	29584.620	2.0	36895.730	3.0
1367.4206	6.00	-3.31	81325.760	1.0	88636.800	2.0
1367.4651	22.00	-2.75	28702.768	3.0	36013.570	2.0
1367.5946	6.00	-3.21	81769.790	2.0	89079.900	2.0
1367.6731	9.00	-2.28	130141.650	1.5	137451.340	2.5
1367.7399	28.00	-4.92	50458.187	1.0	57767.520	1.0
1367.8552	18.00	.18	107496.463	1.0	114805.180	2.0
1367.8831	26.00	-4.43	43499.485	4.0	50808.053	4.0
1367.9314	9.00	-2.16	130141.650	1.5	137449.960	1.5
1367.9711	22.00	-2.73	28788.372	4.0	36096.470	3.0
1367.9894	29.01	-1.80	138593.100	1.0	145901.100	1.0
1368.0652	28.00	-1.77	47424.830	1.0	54732.425	2.0
1368.0980	21.00	-3.88	31350.810	4.5	38658.230	4.5
1368.1577	7.00	-3.50	106868.635	3.5	114175.736	3.5
1368.2197	23.00	-3.68	36611.810	2.5	43918.580	2.5
1368.2307	26.00	-3.53	44760.739	1.0	52067.450	2.0
1368.2440	28.01	-4.66	119913.330	4.5	127219.970	3.5
1368.2796	14.02	-.39	227081.190	1.0	234387.640	1.0
1368.2946	14.00	-.47	54257.582	3.0	61563.952	4.0
1368.3265	13.01	-.15	142607.000	2.0	149913.200	3.0
1368.3489	25.00	-1.95	23818.870	.5	31124.950	.5
1368.3508	28.01	-3.67	114869.350	1.5	122175.420	2.5
1368.3695	28.01	-3.89	130815.910	3.5	138121.880	4.5
1368.3746	14.00	-4.36	56780.427	1.0	64086.370	1.0
1368.3920	24.00	-4.22	20519.600	6.0	27825.450	5.0
1368.4294	28.01	-3.53	130470.900	4.5	137776.550	3.5
1368.4425	23.00	-9.81	10892.500	3.5	18198.080	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1368.5709	14.00	-3.32	54257.582	3.0	61562.477	3.0
1368.7386	6.00	-3.46	81311.010	0.0	88615.010	1.0
1368.7480	17.00	-.76	91069.020	.5	98372.970	1.5
1368.8023	28.01	-.34	122120.370	5.5	129424.030	5.5
1368.8079	24.00	-1.30	50057.610	2.0	57361.240	3.0
1368.8454	14.02	.09	227084.210	2.0	234387.640	1.0
1368.8660	27.00	-4.79	48217.320	3.5	55520.640	3.5
1368.8919	22.00	-5.31	12118.394	4.0	19421.576	3.0
1368.9072	17.01	-4.86	146330.000	1.0	153633.100	1.0
1368.9935	23.00	-2.65	36763.410	2.5	44066.050	3.5
1368.9991	6.00	-2.96	81343.990	2.0	88646.600	1.0
1369.1228	28.01	-2.11	130480.550	3.5	137782.500	4.5
1369.2014	7.00	-3.30	107588.469	.5	114890.000	1.5
1369.2278	9.00	-4.87	130141.650	1.5	137443.040	2.5
1369.2410	14.02	-3.70	242473.660	3.0	249774.980	4.0
1369.2635	15.00	-2.28	68183.200	1.5	75484.400	2.5
1369.2785	14.02	-2.16	242473.860	4.0	249774.980	4.0
1369.2935	14.02	-1.90	242473.660	3.0	249774.700	3.0
1369.3216	9.00	-3.07	130149.070	.5	137449.960	1.5
1369.3310	14.02	-.98	242473.860	4.0	249774.700	3.0
1369.3348	14.02	-.85	242473.660	3.0	249774.480	2.0
1369.3554	14.02	-2.26	242474.270	4.0	249774.980	4.0
1369.3798	14.00	-1.37	49399.670	1.0	56700.250	1.0
1369.4079	14.02	-1.08	242474.270	4.0	249774.700	3.0
1369.4567	14.02	-.61	242474.810	5.0	249774.980	4.0
1369.4942	28.01	-4.06	98561.220	2.5	105861.190	2.5
1369.5110	13.02	-.06	195621.720	.5	202921.600	.5
1369.6011	15.00	-3.52	65585.000	2.5	72884.400	2.5
1369.6199	17.01	-4.39	146333.800	2.0	153633.100	1.0
1369.6274	21.00	-2.29	37717.110	3.5	45016.370	3.5
1369.6368	28.01	-.27	122120.370	5.5	129419.580	4.5
1369.6368	14.01	.13	103885.510	1.5	111184.720	.5
1369.6387	13.01	-1.63	142849.200	3.0	150148.400	2.0
1369.6387	13.01	-3.06	142849.200	3.0	150148.400	3.0
1369.6387	13.01	-4.49	142849.200	3.0	150148.400	4.0
1369.6387	13.01	-2.07	142849.200	4.0	150148.400	3.0
1369.6387	13.01	-1.09	142849.200	4.0	150148.400	3.0
1369.6387	13.01	-2.93	142849.200	4.0	150148.400	4.0
1369.6387	13.01	-3.06	142849.200	4.0	150148.400	4.0
1369.6387	13.01	-1.40	142849.200	5.0	150148.400	4.0
1369.7776	6.00	-.62	64086.920	3.0	71385.380	2.0
1369.8200	14.00	-3.36	50499.838	2.0	57798.072	2.0
1369.8413	21.00	-5.09	11557.640	2.5	18855.760	1.5
1369.9070	9.00	-2.67	130489.930	.5	137787.700	1.5
1369.9239	27.00	-4.09	47128.960	2.5	54426.640	1.5
1370.1042	20.01	-2.94	83458.080	2.5	90754.800	2.5
1370.1042	20.01	-1.64	83458.080	3.5	90754.800	2.5
1370.1325	22.00	-3.55	15108.121	3.0	22404.690	3.0
1370.1342	28.01	-2.96	112906.930	1.5	120203.490	2.5
1370.1455	29.01	-2.12	138593.100	1.0	145889.600	0.0
1370.1630	26.00	-4.23	43922.652	3.0	51219.059	3.0
1370.1680	21.00	-3.77	31275.320	3.5	38571.700	3.5
1370.2394	28.01	-1.41	130480.550	3.5	137776.550	3.5
1370.2572	26.00	-3.31	47005.455	5.0	54301.360	4.0
1370.2694	20.01	-1.79	83458.080	2.5	90753.920	1.5
1370.3194	26.00	-3.05	44458.960	0.0	51754.534	1.0
1370.3276	6.00	-2.61	64089.850	1.0	71385.380	2.0
1370.3395	26.00	-2.03	44166.240	3.0	51461.707	4.0
1370.4216	6.00	-2.61	81343.990	2.0	88639.020	1.0
1370.5043	18.01	-1.68	194861.270	2.5	202155.860	2.5
1370.5272	7.00	-3.53	106996.032	1.5	114290.500	2.5
1370.5343	6.00	-1.40	64090.950	2.0	71385.380	2.0
1370.5606	26.00	-4.56	44166.240	3.0	51460.530	3.0
1370.5644	17.00	-1.14	91089.450	3.5	98383.720	3.5
1370.6188	17.00	-.20	91089.450	3.5	98383.430	4.5
1370.6311	26.00	-2.74	44411.137	1.0	51705.052	2.0
1370.6448	26.00	-3.50	47831.132	2.0	55124.974	3.0
1370.6583	18.01	-.81	187589.230	2.5	194883.000	3.5
1370.6903	30.02	-4.82	257962.500	2.0	265256.100	3.0
1370.7076	26.00	-4.00	43163.282	4.0	50456.790	3.0
1370.7094	22.00	-2.20	18145.400	2.0	25438.898	2.0
1370.7861	25.00	-2.45	50012.530	2.5	57305.620	3.5
1370.7955	24.00	-1.79	50057.610	2.0	57350.650	2.0
1370.8376	7.00	-1.74	106778.337	1.5	114071.153	1.5
1370.8388	27.00	-3.94	47612.180	1.5	54904.990	2.5
1370.8388	6.00	-1.92	81343.990	2.0	88636.800	2.0
1370.8745	23.00	-7.08	14548.830	2.5	21841.450	2.5
1370.9440	28.01	-3.20	112906.930	1.5	120199.180	1.5
1370.9535	8.01	.61	248009.100	1.5	255301.300	2.5
1370.9778	17.00	-.82	91127.030	2.5	98419.100	2.5
1370.9794	22.00	-3.95	20062.980	1.0	27355.042	1.0
1371.0173	17.00	-.50	91127.030	2.5	98418.890	3.5
1371.0700	15.00	-3.31	65450.020	1.5	72741.600	1.5
1371.1104	7.00	-4.97	106868.635	3.5	114160.000	2.5
1371.1352	14.00	-1.51	49399.670	1.0	56690.903	2.0
1371.1433	24.00	-2.44	36895.730	3.0	44186.920	2.0
1371.1858	14.00	-2.27	56503.346	2.0	63794.310	2.0
1371.2329	26.00	-4.65	47834.260	3.0	55124.974	3.0
1371.3145	22.00	-2.40	34078.580	3.0	41368.860	4.0
1371.3296	13.01	-2.16	139286.800	2.0	146577.000	1.0
1371.3345	14.00	-4.18	56503.346	2.0	63793.520	1.0
1371.3354	7.00	-3.19	104615.440	1.5	111905.609	2.5
1371.3450	28.00	-2.81	43464.019	1.0	50754.137	2.0
1371.4499	27.00	-3.88	47225.110	3.5	54514.670	3.5
1371.5007	26.01	-3.30	80345.910	.5	87635.200	.5
1371.5083	6.00	-3.49	81325.760	1.0	88615.010	1.0
1371.5101	27.00	-3.85	43911.360	1.5	51200.600	1.5
1371.5401	26.00	-3.45	44760.739	1.0	52049.820	2.0
1371.8534	18.00	.54	105462.804	3.0	112750.220	4.0
1371.8753	18.02	-3.61	243424.970	3.0	250712.270	2.0
1371.9581	24.00	-4.71	47917.930	2.0	55204.790	3.0
1371.9794	26.00	-3.79	47092.693	3.0	54379.440	3.0
1372.0146	18.01	-.67	195864.640	2.5	203151.200	2.5
1372.1125	28.00	-2.19	51343.800	2.0	58629.840	2.0
1372.1287	26.00	-3.67	44551.325	3.0	51837.279	3.0
1372.1671	28.00	-2.32	51343.800	2.0	58629.550	3.0
1372.2274	27.00	-4.02	46872.740	3.5	54158.170	4.5
1372.3272	6.00	-1.39	78340.280	1.0	85625.180	0.0
1372.3310	13.02	-.57	202003.580	4.5	209288.460	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1372.3310	13.02	1.17	202003.580	4.5	209288.460	5.5
1372.3310	13.02	1.08	202003.580	3.5	209288.460	4.5
1372.3574	19.00	-1.21	27397.100	2.5	34681.840	1.5
1372.4139	18.01	.44	195866.760	1.5	203151.200	2.5
1372.4271	6.00	-3.13	81769.790	2.0	89054.160	2.0
1372.5194	28.01	-.30	130470.900	4.5	137754.780	5.5
1372.5533	19.00	-2.27	27398.140	1.5	34681.840	1.5
1372.5533	19.00	-1.47	27398.140	1.5	34681.840	.5
1372.6344	20.02	-1.22	363021.270	2.0	370304.540	2.0
1372.6721	6.00	-3.44	78116.740	1.0	85399.810	2.0
1372.6803	26.00	-4.64	47092.693	3.0	54375.719	2.0
1372.6909	28.01	-.51	130470.900	4.5	137753.870	4.5
1372.7305	24.00	-2.33	41224.800	0.0	48507.560	1.0
1372.7569	28.01	-3.25	112906.930	1.5	120189.550	.5
1372.7851	27.00	-3.23	45688.150	2.5	52970.620	2.5
1372.8296	17.00	-2.34	94314.206	1.5	101596.440	.5
1372.9190	22.00	-4.38	35577.140	2.0	42858.900	3.0
1372.9435	25.00	-2.86	23719.520	1.5	31001.150	2.5
1372.9454	28.01	-4.32	115565.980	2.5	122847.600	3.5
1373.0510	6.00	-2.27	80562.850	1.0	87843.910	1.0
1373.0604	6.00	-2.90	81343.990	2.0	88625.000	3.0
1373.0642	26.01	-4.53	54870.620	2.5	62151.610	2.5
1373.1331	7.00	-2.13	112868.700	3.5	120149.325	4.5
1373.1426	28.00	-4.29	43464.019	1.0	50744.593	1.0
1373.1495	7.00	-3.78	112868.700	3.5	120149.238	3.5
1373.2547	28.01	-2.04	99340.550	3.5	106620.530	3.5
1373.2697	8.01	.76	248185.300	2.5	255465.200	3.5
1373.2773	13.02	.24	195641.740	1.5	202921.600	.5
1373.2849	25.00	-1.53	57305.620	3.5	64585.440	4.5
1373.2946	7.00	-3.26	104221.600	1.5	111501.368	1.5
1373.4415	6.00	-2.35	81325.760	1.0	88604.750	2.0
1373.4584	29.01	-.80	139217.300	2.0	146496.200	3.0
1373.4943	27.00	-1.99	43921.890	2.5	51200.600	1.5
1373.5169	28.00	-2.49	50689.490	2.0	57968.080	3.0
1373.5302	7.00	-2.62	106980.480	.5	114259.000	1.5
1373.6282	18.01	-1.06	211725.600	2.5	219003.600	2.5
1373.6343	7.00	-2.12	106996.032	1.5	114274.000	2.5
1373.6426	26.00	-4.51	40534.180	3.0	47812.104	4.0
1373.6452	18.01	.24	211725.690	3.5	219003.600	2.5
1373.6471	29.01	-.67	141204.100	3.0	148482.000	3.0
1373.6490	7.00	-1.14	106868.635	3.5	114146.525	2.5
1373.6641	26.00	-2.46	47171.520	0.0	54449.330	1.0
1373.6698	22.00	-2.19	41087.310	3.0	48365.090	3.0
1373.6728	14.00	-2.90	57017.496	2.0	64295.260	3.0
1373.6868	27.00	-2.28	43921.890	2.5	51199.580	3.5
1373.7038	28.01	-3.17	129396.040	5.5	136673.640	4.5
1373.7793	29.01	-.15	141744.600	1.0	148521.800	1.0
1373.8171	15.01	-1.40	132133.200	3.0	139410.200	2.0
1373.8316	26.00	-4.52	44183.607	2.0	51460.530	3.0
1373.8472	28.01	-2.37	98561.220	2.5	105838.060	3.5
1373.9681	18.01	.08	211725.600	2.5	219001.800	1.5
1373.9758	22.00	-2.18	34204.971	4.0	41481.130	5.0
1374.0217	18.00	-2.34	116660.054	1.0	123935.970	1.0
1374.0380	55.00	-3.28	22588.890	0.0	29866.709	0.0
1374.0682	28.01	.33	122120.370	5.5	129396.040	5.5
1374.0738	28.01	-3.07	114869.350	1.5	122144.990	2.5
1374.0871	15.00	-2.78	58174.450	1.5	65450.020	1.5
1374.1853	6.00	-1.40	64089.850	1.0	71364.900	1.0
1374.1966	25.02	.11	209032.300	5.5	216307.290	4.5
1374.2249	22.00	-8.80	8602.340	2.0	15877.180	2.0
1374.2288	13.02	-2.85	202009.710	4.5	209284.530	4.5
1374.2288	13.02	-1.12	202009.710	5.5	209284.530	4.5
1374.2288	13.02	-1.21	202009.710	4.5	209284.530	3.5
1374.3931	6.00	-.90	64090.950	2.0	71364.900	1.0
1374.4157	6.00	-3.00	82251.710	0.0	89525.540	1.0
1374.4169	14.00	-3.01	56978.256	1.0	64252.080	2.0
1374.4328	23.00	-3.66	30832.580	2.5	38106.320	2.5
1374.4781	28.01	-2.54	109038.840	1.5	116312.340	1.5
1374.5121	28.01	-.67	130480.550	3.5	137753.870	4.5
1374.5821	9.02	-4.26	380250.520	2.5	387523.470	3.5
1374.5991	18.01	-1.46	194883.000	3.5	202155.860	2.5
1374.6293	30.02	-3.80	295635.800	3.0	302908.500	4.0
1374.6316	26.00	-3.20	46888.494	2.0	54161.182	3.0
1374.6369	10.01	-2.35	321423.240	3.5	328695.900	2.5
1374.7049	8.01	-1.41	248009.100	1.5	255281.400	.5
1374.7389	26.00	-2.67	47177.210	1.0	54449.330	1.0
1374.7482	17.00	-2.09	94482.236	2.5	101754.307	3.5
1374.7510	26.00	-4.47	46889.126	4.0	54161.182	3.0
1374.7522	28.01	-.59	130470.900	4.5	137742.950	5.5
1374.7540	18.01	-.92	187589.230	2.5	194861.270	2.5
1374.7976	23.00	-9.21	11100.650	4.5	18372.460	3.5
1374.8032	25.00	-4.43	42143.570	1.5	49415.350	2.5
1374.8100	26.00	-4.85	44022.518	4.0	51294.262	3.0
1374.8562	13.01	-1.30	132819.700	3.0	140091.200	2.0
1374.8666	7.00	-1.38	112877.880	4.5	120149.325	4.5
1374.8685	7.00	-2.78	112877.890	3.5	120149.325	4.5
1374.8830	7.00	-3.07	112877.880	4.5	120149.238	3.5
1374.8849	7.00	-1.23	112877.890	3.5	120149.238	3.5
1374.8883	25.00	-4.82	38669.600	3.5	45940.930	2.5
1374.8940	8.02	-.76	370415.700	1.0	377687.000	2.0
1374.8940	13.01	-2.13	132819.900	1.0	140091.200	1.0
1374.8940	13.01	-1.92	132819.900	1.0	140091.200	0.0
1374.8940	13.01	-3.22	132819.900	1.0	140091.200	2.0
1374.8940	13.01	-1.65	132819.900	2.0	140091.200	1.0
1374.8940	13.01	-2.04	132819.900	2.0	140091.200	2.0
1374.9470	6.00	-3.74	81343.990	2.0	88615.010	1.0
1374.9507	27.00	-2.15	45924.980	3.5	53195.980	2.5
1374.9944	14.00	-4.04	54871.031	1.0	62141.800	1.0
1374.9999	24.00	-1.22	50102.040	3.0	57372.780	4.0
1375.0258	22.00	-4.82	20209.444	2.0	27480.047	3.0
1375.0377	6.00	-4.26	77679.820	2.0	84950.360	2.0
1375.0585	28.01	-1.25	127991.560	3.5	135261.990	4.5
1375.0955	14.00	-2.24	56503.346	2.0	63773.580	2.0
1375.1504	14.00	-1.14	56503.346	2.0	63773.290	3.0
1375.1928	21.00	-3.45	37553.340	2.5	44823.060	1.5
1375.1985	6.00	-3.50	80562.850	1.0	87832.540	2.0
1375.2533	24.00	-2.09	41289.170	1.0	48558.570	2.0
1375.3786	7.00	-2.64	112880.500	2.5	120149.238	3.5
1375.4751	18.00	-3.33	115366.900	1.0	122635.128	2.0
1375.5182	15.01	-2.29	125129.700	3.0	132397.700	2.0
1375.5328	7.00	-1.98	106758.731	.5	114026.654	.5
1375.5485	10.01	-2.02	321428.060	3.5	328695.900	2.5
1375.5504	10.01	-2.65	321428.070	2.5	328695.900	2.5
1375.5542	10.01	-3.03	321428.070	2.5	328695.880	1.5
1375.5883	18.01	-4.42	206623.800	3.5	213891.430	2.5
1375.5998	26.00	.05	43633.491	2.0	50901.060	2.0
1375.6233	26.00	-3.40	53281.735	5.0	60549.180	5.0
1375.6470	6.00	-1.73	80562.850	1.0	87830.170	1.0
1375.7000	23.02	-4.20	153112.600	3.5	160379.640	2.5
1375.7113	25.02	-1.24	208650.540	3.5	215917.520	4.5
1375.7473	23.00	-3.35	19078.150	3.5	26344.940	4.5
1375.7605	22.00	-3.34	41457.620	3.0	48724.340	2.0
1375.8224	55.00	-1.15	14499.257	0.0	21767.637	0.0
1375.9253	28.01	-1.91	114052.040	3.5	121317.890	3.5
1376.0628	14.00	-4.11	56978.256	1.0	64243.380	2.0
1376.1222	25.01	-4.13	67295.160	4.0	74559.970	3.0
1376.1355	27.00	-3.22	46671.940	2.5	53936.680	2.5
1376.2056	18.01	-2.21	202149.110	2.5	209413.480	1.5
1376.2279	14.00	-1.47	49933.775	3.0	57198.027	3.0
1376.2662	28.01	-5.89	129284.500	2.5	136548.550	2.5
1376.2833	55.00	-2.47	22588.890	0.0	29854.836	0.0
1376.3515	15.00	-3.67	70391.600	2.5	77655.200	3.5
1376.4216	22.00	-4.67	40844.190	1.0	48107.420	2.0
1376.4713	7.00	-2.60	106996.032	1.5	114259.000	1.5
1376.5011	6.00	-1.91	81343.990	2.0	88606.800	3.0
1376.5042	26.00	-5.00	45595.046	0.0	52857.840	1.0
1376.5220	13.01	-1.02	142362.800	2.0	149625.500	2.0
1376.5220	13.01	-.28	142362.800	1.0	149625.500	2.0
1376.5220	13.01	-.48	142362.800	2.0	149625.500	3.0
1376.5220	13.01	-2.56	142362.800	3.0	149625.500	2.0
1376.5220	13.01	-1.38	142362.800	3.0	149625.500	3.0
1376.5220	13.01	.05	142362.800	3.0	149625.500	4.0
1376.5296	6.00	-1.25	64089.850	1.0	71352.510	0.0
1376.5353	28.01	-4.19	129284.500	2.5	136547.130	3.5
1376.5599	13.01	-.97	134917.300	1.0	142179.800	1.0
1376.5921	10.01	-4.46	305582.270	.5	312844.600	1.5
1376.6162	17.00	-1.88	88272.720	.5	95534.923	.5
1376.7084	7.00	-2.61	107628.283	1.5	114890.000	1.5
1376.7799	10.01	-2.91	321434.560	2.5	328695.900	2.5
1376.7837	10.01	-2.04	321434.560	2.5	328695.880	1.5
1376.8081	14.00	-3.20	50189.389	2.0	57450.580	3.0
1376.8750	26.00	-4.56	53545.882	3.0	60806.720	3.0
1376.8784	10.01	-1.99	283322.350	1.5	290583.170	1.5
1376.8898	6.00	-3.84	81343.990	2.0	88604.750	2.0
1376.9391	13.01	-1.19	142849.200	4.0	150109.700	3.0
1376.9391	13.01	-2.04	142849.200	4.0	150109.700	3.0
1376.9391	13.01	-2.93	142849.200	3.0	150109.700	3.0
1376.9619	23.01	-3.85	65885.300	2.0	73145.680	3.0
1376.9960	30.02	-3.47	257566.100	1.0	264826.300	1.0
1377.0169	18.01	-4.50	204937.800	4.5	212197.890	4.5
1377.0795	18.01	-3.13	206631.670	2.5	213891.430	2.5
1377.0966	13.02	-2.23	202003.580	3.5	209263.250	3.5
1377.0966	13.02	-.68	202003.580	4.5	209263.250	3.5
1377.0966	13.02	-.80	202003.580	3.5	209263.250	2.5
1377.1117	28.01	-3.59	112906.930	1.5	120166.520	1.5
1377.1194	18.01	-4.48	206631.670	2.5	213891.220	1.5
1377.1857	24.00	-1.67	50102.040	3.0	57361.240	3.0
1377.1858	13.01	-.28	142607.000	2.0	149866.200	3.0
1377.2299	26.00	-2.92	44760.739	1.0	52019.706	1.0
1377.2513	14.00	-1.26	56503.346	2.0	63762.200	3.0
1377.2571	26.00	-4.58	48531.896	3.0	55790.720	3.0
1377.2650	26.00	-4.52	44511.795	2.0	51770.577	3.0
1377.2825	17.00	-2.77	84648.100	2.5	91906.790	2.5
1377.3185	6.00	-2.07	81325.760	1.0	88584.260	2.0
1377.3793	8.01	-1.73	206971.300	2.5	214229.480	1.5
1377.3812	25.02	-1.69	208935.880	4.5	216194.050	5.5
1377.4077	23.01	-2.92	66158.600	4.0	73416.630	5.0
1377.4552	28.01	-2.96	129284.500	2.5	136542.280	3.5
1377.4988	25.00	-2.65	23818.870	.5	31076.420	1.5
1377.5691	8.01	-2.58	206972.300	1.5	214229.480	1.5
1377.6554	16.00	-.26	63445.115	1.0	70701.840	2.0
1377.6613	7.00	-1.44	106814.459	2.5	114071.153	1.5
1377.6620	17.00	.01	91127.030	2.5	98383.720	3.5
1377.6839	26.00	-3.61	46137.140	3.0	53393.715	4.0
1377.6957	17.00	-4.89	94468.857	.5	101725.370	1.5
1377.7304	29.01	-3.35	133727.870	2.0	140984.200	1.0
1377.7413	22.00	-3.01	18061.540	1.0	25317.813	1.0
1377.7435	56.00	-1.13	18535.519	0.0	25793.764	0.0
1377.7950	26.01	-3.40	80345.910	.5	87601.900	1.5
1377.8235	17.00	-2.83	94732.300	3.5	101988.140	2.5
1377.8400	22.00	-3.70	37325.407	2.0	44581.160	2.0
1377.8843	6.00	-1.37	77679.820	2.0	84935.340	1.0
1377.9450	30.02	-4.05	295653.300	5.0	302908.500	4.0
1377.9754	26.01	-4.00	54870.620	2.5	62125.660	1.5
1377.9906	18.01	.16	183914.560	.5	191169.520	1.5
1378.0248	26.00	-2.96	51016.720	5.0	58271.500	5.0
1378.0248	28.01	-4.36	128799.720	.5	136054.500	1.5
1378.1616	28.01	-3.81	129419.580	4.5	136673.640	4.5
1378.2811	7.00	-1.77	107037.069	2.5	114290.500	2.5
1378.3805	28.00	-1.87	43464.019	1.0	50716.927	1.0
1378.4466	24.00	-2.06	41409.030	2.0	48661.590	3.0
1378.5531	13.01	-1.68	140091.200	1.0	147343.200	2.0
1378.5626	18.01	-1.05	204417.230	1.5	211669.180	2.5
1378.6006	26.01	-3.16	96357.070	3.5	103608.820	4.5
1378.6063	6.00	-3.25	78148.090	2.0	85399.810	2.0
1378.6063	7.00	-3.27	106980.480	.5	114232.200	1.5
1378.6120	27.00	-2.42	43952.060	5.5	51203.750	5.5
1378.6956	27.00	-3.43	46685.430	1.5	53936.680	2.5
1378.7337	23.00	-1.14	15062.940	6.5	22313.990	5.5
1378.8763	15.00	-3.99	74271.800	1.5	81522.100	2.5
1378.8877	24.00	-1.53	35398.020	4.0	42648.260	3.0
1378.9139	26.00	-4.11	47136.058	2.0	54386.160	1.0
1378.9333	18.01	-4.32	206623.800	3.5	213873.800	2.5
1378.9524	28.01	-4.26	126679.980	4.5	133929.880	3.5
1378.9771	18.01	-2.03	206623.800	3.5	213873.570	3.5
1379.0075	28.01	-2.93	129424.030	5.5	136673.640	4.5
1379.0475	24.00	-2.22	41575.100	3.0	48824.500	4.0
1379.0817	28.01	-4.18	129297.910	3.5	136547.130	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1379.0944	28.00	-2.92	42790.027	2.0	50039.180	2.0
1379.0946	20.00	-3.37	36731.615	1.0	43980.767	1.0
1379.1863	25.00	-3.07	50373.230	2.5	57621.900	1.5
1379.1978	24.00	-2.83	50102.040	3.0	57350.650	2.0
1379.2016	28.01	-3.15	129297.910	3.5	136546.500	4.5
1379.2535	7.00	-1.98	106778.337	1.5	114026.654	.5
1379.2720	26.00	-4.72	46026.980	6.0	53275.200	7.0
1379.3919	6.00	-2.71	81311.010	0.0	88558.600	1.0
1379.4014	28.01	.87	122120.370	5.5	129367.910	6.5
1379.4842	22.00	-4.35	18141.229	5.0	25388.334	4.0
1379.4946	26.00	-4.88	45913.480	3.0	53160.530	3.0
1379.5251	18.01	-4.62	201345.220	1.5	208592.110	.5
1379.5422	18.01	-3.32	204951.090	3.5	212197.890	4.5
1379.5498	28.01	-4.39	129284.500	2.5	136531.260	1.5
1379.5879	18.01	-4.13	201345.220	1.5	208591.780	1.5
1379.6089	28.01	-3.72	105439.850	1.5	112686.300	2.5
1379.6184	30.02	-3.46	292861.700	2.0	300108.100	3.0
1379.6184	17.00	-1.17	91127.030	2.5	98373.430	2.5
1379.7060	17.00	-2.72	91127.030	2.5	98372.970	1.5
1379.7136	15.01	-1.39	132164.300	2.0	139410.200	2.0
1379.7345	28.00	-1.12	47328.850	2.0	54574.640	1.0
1379.7555	19.00	-1.31	27397.100	2.5	34642.780	1.5
1379.7616	16.00	-.04	63456.192	2.0	70701.840	2.0
1379.7727	17.00	-1.73	91173.510	1.5	98419.100	2.5
1379.8640	24.00	-3.02	50105.540	1.0	57350.650	2.0
1379.8830	18.01	-.20	182951.150	.5	190196.160	.5
1379.9535	19.00	-2.26	27398.140	1.5	34642.780	1.5
1379.9535	19.00	-1.56	27398.140	1.5	34642.780	.5
1379.9745	15.00	-1.83	65373.470	.5	72618.000	.5
1380.0050	28.01	-4.05	129297.910	3.5	136542.280	3.5
1380.0054	28.00	-2.23	51343.800	2.0	58588.168	3.0
1380.0755	29.01	-1.28	139331.300	3.0	146575.300	2.0
1380.0755	17.01	-3.44	146013.000	2.0	153257.000	2.0
1380.0781	26.00	-3.64	46888.494	2.0	54132.480	1.0
1380.1536	28.01	-3.52	114869.350	1.5	122112.940	.5
1380.1932	26.00	-3.58	47136.058	2.0	54379.440	3.0
1380.2088	25.02	-.50	209289.760	6.5	216533.060	6.5
1380.2200	18.00	-1.64	116660.054	1.0	123903.295	2.0
1380.2298	23.00	-3.90	36822.860	3.5	44066.050	3.5
1380.2404	17.00	-3.49	94482.236	2.5	101725.370	1.5
1380.2927	18.00	-2.28	115366.900	1.0	122609.760	1.0
1380.3365	28.01	-1.84	114052.040	3.5	121294.670	4.5
1380.3384	10.01	-3.18	321422.850	4.5	328665.470	4.5
1380.3441	10.01	-4.10	321422.880	5.5	328665.470	4.5
1380.3632	25.02	-1.54	208819.640	3.5	216062.130	2.5
1380.3670	10.01	-3.83	321422.850	4.5	328665.320	5.5
1380.3727	10.01	-2.54	321422.880	5.5	328665.320	5.5
1380.3784	28.01	-4.44	99040.750	1.5	106283.160	2.5
1380.4109	10.01	-2.80	321423.230	4.5	328665.470	4.5
1380.4128	10.01	-4.23	321423.240	3.5	328665.470	4.5
1380.4705	28.00	-2.33	49032.589	2.0	56274.516	2.0
1380.4757	18.01	-.60	206631.670	2.5	213873.570	3.5
1380.5348	9.00	-2.90	130221.120	1.5	137462.710	1.5
1380.5501	7.00	-3.55	104664.100	1.5	111905.609	2.5
1380.6472	17.01	-2.60	146330.000	1.0	153571.000	1.0
1380.6854	26.00	-4.49	50456.790	3.0	57697.590	4.0
1380.7788	25.00	-4.90	55186.170	2.5	62426.480	3.5
1380.7865	6.00	-1.71	81343.990	2.0	88584.260	2.0
1380.9018	26.00	-4.31	46727.055	2.0	53966.720	2.0
1380.9026	26.00	-2.91	47136.058	2.0	54375.719	2.0
1381.0687	7.01	-.20	203537.660	1.0	210776.450	0.0
1381.0993	25.00	-3.45	50383.270	1.5	57621.900	1.5
1381.1909	28.01	-3.40	105668.780	2.5	112906.930	1.5
1381.2100	6.00	-2.40	81311.010	0.0	88549.060	1.0
1381.2195	26.00	-4.88	53568.720	2.0	60806.720	3.0
1381.2327	7.00	-1.72	107037.069	2.5	114275.000	3.5
1381.2386	15.00	-1.98	68246.500	2.5	75484.400	2.5
1381.2596	10.01	-4.75	305566.940	1.5	312804.730	2.5
1381.2767	30.02	-3.46	258075.700	3.0	265313.400	2.0
1381.2918	7.00	-3.31	104615.440	1.5	111853.061	1.5
1381.3321	10.01	-4.56	321428.060	3.5	328665.470	4.5
1381.3531	30.02	-3.95	292886.100	6.0	300123.400	5.0
1381.3674	10.00	-4.93	165828.175	2.0	173065.400	2.0
1381.3721	17.01	-3.98	146333.800	2.0	153571.000	1.0
1381.4235	7.00	-1.83	107037.069	2.5	114274.000	2.5
1381.4657	18.01	-3.00	206623.800	3.5	213860.510	3.5
1381.4867	18.01	-.48	206623.800	3.5	213860.400	4.5
1381.5153	28.01	-2.34	108548.610	1.5	115785.060	1.5
1381.5325	28.01	-.65	130470.900	4.5	137707.260	3.5
1381.5692	7.00	-1.88	106996.032	1.5	114232.200	1.5
1381.8717	14.00	-2.95	57017.496	2.0	64252.080	2.0
1381.9011	10.01	-1.57	321431.040	5.5	328665.470	4.5
1381.9088	18.00	-2.62	115366.900	1.0	122601.290	1.0
1381.9248	14.00	-2.74	53387.334	1.0	60621.640	0.0
1381.9298	10.01	-3.62	321431.040	5.5	328665.320	5.5
1381.9336	10.01	-1.49	321431.060	6.5	328665.320	5.5
1381.9832	30.02	-2.38	295635.800	3.0	302869.800	3.0
1381.9832	30.02	-3.63	295635.800	2.0	302869.800	3.0
1381.9851	29.01	-1.47	137649.100	2.0	144883.090	2.0
1382.0392	17.00	-2.91	88080.042	2.5	95313.749	1.5
1382.0788	30.02	-3.82	292892.500	3.0	300126.000	4.0
1382.1756	17.00	-1.83	83894.037	3.5	91127.030	2.5
1382.1953	55.00	-2.38	22631.830	0.0	29866.698	0.0
1382.1991	18.01	-.43	187589.230	2.5	194822.100	3.5
1382.2412	27.00	-4.92	48217.320	3.5	55449.970	2.5
1382.3138	28.01	-4.37	128822.230	1.5	136054.500	1.5
1382.3645	26.00	-4.75	47005.455	5.0	54237.460	4.0
1382.3949	22.00	-4.30	36000.144	4.0	43231.990	4.0
1382.4275	14.00	-3.43	50566.397	1.0	57798.072	2.0
1382.4403	28.00	-1.40	44112.192	1.0	51343.800	2.0
1382.5279	19.00	-1.88	27450.690	.5	34681.840	1.5
1382.5279	19.00	-2.18	27450.690	.5	34681.840	.5
1382.5430	28.00	-1.71	46522.965	2.0	53754.036	2.0
1382.5656	18.00	-.30	106237.597	2.0	113468.550	2.0
1382.5872	18.01	-2.40	163299.470	2.5	170530.310	3.5
1382.6162	26.00	-4.97	47452.702	4.0	54683.390	4.0
1382.6560	29.01	-2.02	116326.160	3.0	123556.640	2.0
1382.6845	28.00	-.98	49032.589	2.0	56262.920	3.0
1382.7058	9.00	-2.26	130221.120	1.5	137451.340	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1382.7708	24.00	-2.83	37883.340	2.0	45113.220	3.0
1382.7937	18.00	-.27	113020.390	3.0	120250.150	3.0
1382.7937	18.00	-.58	113020.390	3.0	120250.150	4.0
1382.9697	9.00	-2.12	130221.120	1.5	137449.960	1.5
1382.9697	18.01	-4.43	206631.670	2.5	213860.510	3.5
1382.9965	28.01	-2.15	109846.000	3.5	117074.700	3.5
1383.0310	7.00	-2.60	106980.480	.5	114209.000	.5
1383.0328	29.01	-3.97	115639.020	2.0	122867.530	1.0
1383.0348	29.01	.50	139331.300	3.0	146559.800	4.0
1383.1189	18.01	-1.68	202149.110	2.5	209377.170	2.5
1383.1228	26.00	-4.26	45833.240	4.0	53061.280	5.0
1383.1803	16.00	.11	63474.101	3.0	70701.840	2.0
1383.2012	25.00	-1.65	55405.140	2.5	62632.770	3.5
1383.2835	27.00	-3.04	45876.580	2.5	53103.780	3.5
1383.3275	25.00	-1.96	57485.970	2.5	64712.940	2.5
1383.3639	6.00	-1.61	80562.850	1.0	87789.630	1.0
1383.3773	28.01	-.40	130480.550	3.5	137707.260	3.5
1383.4596	29.01	-.65	139710.200	2.0	146936.480	2.0
1383.4715	26.00	-4.64	43922.652	3.0	51148.870	3.0
1383.4826	28.01	-.27	130480.550	3.5	137706.710	2.5
1383.4960	7.00	-2.07	97770.150	.5	104996.240	1.5
1383.5354	14.00	-2.21	57017.496	2.0	64243.380	2.0
1383.6339	18.00	-2.18	117563.020	0.0	124788.390	1.0
1383.6473	29.01	-.91	139331.300	3.0	146556.600	3.0
1383.6683	25.02	-.32	208650.540	3.5	215875.730	2.5
1383.7450	17.00	.17	90487.870	3.5	97712.660	4.5
1383.8197	9.02	-4.72	457715.100	2.5	464939.500	2.5
1383.8580	28.01	-4.14	108368.050	2.5	115592.250	1.5
1383.9767	14.00	-3.05	57450.580	3.0	64674.160	4.0
1384.0304	6.00	-2.70	81325.760	1.0	88549.060	1.0
1384.0400	24.00	-1.62	47985.760	5.0	55209.010	4.0
1384.0936	28.01	-2.86	109038.840	1.5	116261.810	.5
1384.1070	30.02	-3.84	295685.600	3.0	302908.500	4.0
1384.1070	30.02	-2.27	295685.600	4.0	302908.500	4.0
1384.1686	7.00	-3.81	104683.030	2.5	111905.609	2.5
1384.2040	26.00	-4.78	48531.896	3.0	55754.290	2.0
1384.2323	18.00	-2.62	116660.054	1.0	123882.300	1.0
1384.2374	27.00	-3.90	43952.060	5.5	51174.280	5.5
1384.2738	22.00	-4.94	37359.130	2.0	44581.160	2.0
1384.2927	7.00	-3.81	107037.069	2.5	114259.000	1.5
1384.2948	9.00	-2.99	130221.120	1.5	137443.040	2.5
1384.2987	15.00	-.52	65585.000	2.5	72806.900	2.5
1384.3236	10.01	-4.71	305582.270	.5	312804.040	1.5
1384.3284	26.00	-3.50	46744.975	3.0	53966.720	2.0
1384.4137	30.02	-3.37	292861.700	2.0	300083.000	3.0
1384.4319	28.00	-4.69	47030.148	3.0	54251.353	3.0
1384.4770	27.00	-4.81	48334.370	1.5	55555.340	2.5
1384.5612	7.00	-2.83	107588.469	.5	114809.000	.5
1384.5844	18.01	-1.59	204977.590	2.5	212198.000	3.5
1384.5862	15.00	-4.84	74301.700	2.5	81522.100	2.5
1384.7109	18.00	-2.43	117563.020	0.0	124782.770	1.0
1384.7455	25.00	-2.26	17568.480	1.5	24788.050	2.5
1384.7794	20.00	-3.97	40537.893	3.0	47757.286	2.0
1384.8644	28.01	-2.72	93390.060	2.5	100609.010	2.5
1384.9622	24.00	-3.50	28679.430	1.0	35897.870	2.0
1384.9636	28.00	-2.66	22102.349	4.0	29320.782	3.0
1384.9718	24.00	-2.78	41289.170	1.0	48507.560	1.0
1385.0313	27.00	-3.08	43952.060	5.5	51170.140	4.5
1385.0392	26.00	-3.57	44243.668	5.0	51461.707	4.0
1385.0466	6.00	-2.52	81325.760	1.0	88543.760	0.0
1385.0850	24.00	-4.81	44068.720	3.0	51286.520	2.0
1385.0850	23.00	-3.50	36700.780	2.5	43918.580	2.5
1385.2175	28.01	-3.50	120002.860	3.5	127219.970	3.5
1385.2962	15.01	-1.99	124947.600	2.0	132164.300	2.0
1385.4169	17.00	-2.14	90487.870	3.5	97703.941	2.5
1385.4248	28.01	-2.86	126738.820	1.5	133954.850	.5
1385.4536	25.02	-.79	209091.410	5.5	216307.290	4.5
1385.4958	18.01	-.07	182222.030	1.5	189437.690	.5
1385.4997	6.00	-2.29	81325.760	1.0	88541.400	2.0
1385.5054	22.00	-3.36	41624.130	4.0	48839.740	3.0
1385.5073	30.02	-4.67	292892.500	2.0	300108.100	3.0
1385.5073	30.02	-2.29	292892.500	3.0	300108.100	3.0
1385.5381	28.01	-3.42	114869.350	1.5	122084.790	1.5
1385.6245	18.01	-3.69	183797.360	2.5	191012.350	1.5
1385.6917	26.00	-3.63	47171.520	0.0	54386.160	1.0
1385.6974	6.00	-3.65	81343.990	2.0	88558.600	1.0
1385.7378	30.02	-3.54	292861.700	1.0	300076.100	2.0
1385.7378	30.02	-3.34	292861.700	2.0	300076.100	2.0
1385.7743	23.01	-4.28	30306.400	3.0	37520.610	3.0
1385.7781	7.00	-2.24	97770.150	.5	104984.340	.5
1385.8567	22.00	-2.50	33980.639	2.0	41194.420	3.0
1385.8588	7.01	.15	203537.660	1.0	210751.430	1.0
1385.8992	20.00	-3.45	37748.197	1.0	44961.757	2.0
1385.9222	25.02	-.96	208935.880	4.5	216149.320	3.5
1385.9434	14.00	-3.68	57450.580	3.0	64663.910	4.0
1386.0031	26.00	-3.87	44826.920	0.0	52039.939	1.0
1386.0037	18.00	-2.88	116660.054	1.0	123873.070	0.0
1386.0129	7.00	-3.55	106996.032	1.5	114209.000	.5
1386.0663	26.00	-4.57	48163.427	2.0	55376.117	1.0
1386.0894	22.01	-4.30	62409.580	3.5	69622.150	2.5
1386.0990	7.00	-3.29	106980.480	.5	114193.000	1.5
1386.1105	23.01	-4.30	30318.630	4.0	37531.090	4.0
1386.2378	26.00	-4.53	53545.882	3.0	60757.680	4.0
1386.2681	7.01	.44	202714.120	1.0	209925.760	2.0
1386.3454	17.00	-.63	84132.262	2.5	91343.500	2.5
1386.3662	23.00	-4.30	14910.040	3.5	22121.170	4.5
1386.3912	13.01	-.59	139286.800	2.0	146497.800	3.0
1386.4045	7.00	-1.45	107037.069	2.5	114248.000	3.5
1386.4219	25.00	-1.90	17568.480	1.5	24779.320	1.5
1386.4758	23.01	-4.18	65816.200	1.0	73026.760	2.0
1386.5200	29.01	-3.47	138819.170	3.0	146029.500	4.0
1386.5258	29.01	-.29	139217.300	2.0	146427.600	1.0
1386.5367	14.00	-3.29	56780.427	1.0	63990.670	2.0
1386.5373	6.00	-2.53	80562.850	1.0	87773.090	2.0
1386.5777	25.02	-.20	209323.030	6.5	216533.060	6.5
1386.6046	20.00	-2.67	37751.867	2.0	44961.757	2.0
1386.6090	9.00	-.47	118427.823	1.5	125637.690	2.5
1386.6300	10.00	-2.41	162517.872	1.0	169727.630	1.0
1386.6373	24.00	-4.37	39158.630	4.0	46368.350	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1386.6450	18.00	-1.41	113020.390	3.0	120230.070	2.0
1386.6877	20.00	-2.26	37748.197	1.0	44957.655	1.0
1386.6950	18.00	-1.20	113020.390	3.0	120229.810	3.0
1386.7373	28.01	-3.44	128822.230	1.5	136031.430	2.5
1386.8450	18.01	.96	211732.260	5.5	218940.900	4.5
1386.8450	18.01	-.85	211732.260	5.5	218940.900	5.5
1386.8583	22.00	-4.14	20209.444	2.0	27418.015	2.0
1386.8662	18.01	-.86	211732.370	4.5	218940.900	4.5
1386.8662	18.01	-2.59	211732.370	4.5	218940.900	5.5
1387.0201	21.00	-1.22	30573.100	.5	37780.830	1.5
1387.0696	20.00	-2.14	37748.197	1.0	44955.670	0.0
1387.0875	28.00	-1.10	43258.792	4.0	50466.172	4.0
1387.1630	28.00	-2.42	47030.148	3.0	54237.136	4.0
1387.2299	9.02	-4.85	457715.100	2.5	464921.740	3.5
1387.3204	21.00	-2.81	32751.540	3.5	39957.710	4.5
1387.3281	9.00	-4.38	129381.860	2.5	136587.990	1.5
1387.3383	26.00	-4.34	44022.518	4.0	51228.595	5.0
1387.3628	22.00	-3.12	35652.950	3.0	42858.900	3.0
1387.3724	30.02	-1.34	295702.600	5.0	302908.500	4.0
1387.3724	30.02	-3.05	295702.600	4.0	302908.500	4.0
1387.3897	21.00	-3.30	32696.840	2.5	39902.650	3.5
1387.3917	13.01	-.36	142362.800	2.0	149568.600	3.0
1387.3917	13.01	-1.26	142362.800	3.0	149568.600	3.0
1387.3940	20.00	-2.18	37751.867	2.0	44957.655	1.0
1387.4090	17.00	-.58	84988.480	1.5	92194.190	1.5
1387.4167	26.00	-4.19	51619.140	3.0	58824.810	2.0
1387.4263	25.00	-4.27	50012.530	2.5	57218.150	3.5
1387.4302	30.02	-3.10	292892.500	3.0	300098.100	4.0
1387.4475	10.01	-4.65	305566.940	1.5	312772.450	2.5
1387.5322	6.00	-2.36	81343.990	2.0	88549.060	1.0
1387.5341	23.02	-4.86	152939.200	2.5	160144.260	1.5
1387.5457	27.00	-2.73	43847.980	3.5	51052.980	3.5
1387.5784	29.01	-1.94	138819.170	3.0	146024.000	4.0
1387.6561	26.00	-4.21	43499.485	4.0	50703.912	5.0
1387.6790	20.00	-1.53	37757.449	3.0	44961.757	2.0
1387.6940	26.00	-4.99	53160.530	3.0	60364.760	3.0
1387.7402	27.00	-4.79	45766.630	3.5	52970.620	2.5
1387.7491	26.00	-4.70	44166.240	3.0	51370.184	2.0
1387.8148	10.00	-3.22	164285.882	0.0	171489.485	1.0
1387.8743	26.00	-2.17	41018.029	2.0	48221.323	1.0
1387.9868	7.00	-3.18	97805.810	1.5	105008.520	2.5
1388.0080	30.02	-3.66	292923.400	3.0	300126.000	4.0
1388.0080	30.02	-2.68	292923.400	4.0	300126.000	4.0
1388.0100	9.00	-3.32	129381.860	2.5	136584.450	2.5
1388.0582	24.00	-3.73	47772.300	1.0	54974.640	2.0
1388.0601	29.01	-2.17	138819.170	3.0	146021.500	3.0
1388.0716	28.01	-4.66	106022.790	.5	113225.060	.5
1388.0986	29.01	-1.27	115665.400	1.0	122867.530	1.0
1388.1275	23.01	-3.37	30318.630	4.0	37520.610	3.0
1388.1410	18.01	-3.02	204996.090	3.5	212198.000	3.5
1388.1468	28.00	-3.32	48671.900	3.0	55873.780	2.0
1388.1623	18.01	-1.49	204996.090	3.5	212197.890	4.5
1388.1969	23.00	-9.03	11100.650	4.5	18302.270	3.5
1388.2143	28.01	-2.56	98467.250	3.5	105668.780	2.5
1388.2143	9.02	-3.91	418188.480	.5	425390.010	.5
1388.2567	25.00	-3.51	57621.900	1.5	64823.210	2.5
1388.3030	29.01	-2.33	128558.900	3.0	135759.970	2.0
1388.3301	17.00	-3.70	87979.490	3.5	95180.419	3.5
1388.3338	6.00	-2.53	81343.990	2.0	88544.900	3.0
1388.3627	9.00	-1.39	119081.820	.5	126282.580	1.5
1388.3666	6.00	-3.19	78199.070	2.0	85399.810	2.0
1388.3704	24.00	-2.28	47786.100	2.0	54986.820	3.0
1388.3878	28.01	-4.78	128853.870	2.5	136054.500	1.5
1388.4071	18.01	-4.66	201720.670	1.5	208921.200	1.5
1388.4913	14.00	-4.14	57198.027	3.0	64398.120	2.0
1388.5093	30.02	-3.15	292923.400	4.0	300123.400	5.0
1388.5093	15.01	-1.09	131353.300	2.0	138553.300	2.0
1388.5155	7.00	-1.56	106996.032	1.5	114196.000	2.5
1388.5247	17.00	-.45	91173.510	1.5	98373.430	2.5
1388.5459	23.00	-1.13	19145.130	5.5	26344.940	4.5
1388.6135	17.00	-1.74	91173.510	1.5	98372.970	1.5
1388.6308	28.01	-4.54	129474.270	3.5	136673.640	4.5
1388.6693	19.00	-1.39	27397.100	2.5	34596.270	1.5
1388.6903	7.00	-3.19	104654.000	.5	111853.061	1.5
1388.6906	24.00	-2.33	41289.170	1.0	48488.230	0.0
1388.6983	15.00	-3.59	58174.450	1.5	65373.470	.5
1388.7542	15.00	-1.24	65373.470	.5	72572.200	1.5
1388.7928	22.00	-3.53	39526.890	2.0	46725.420	3.0
1388.7969	26.00	-2.47	47177.210	1.0	54375.719	2.0
1388.8140	18.01	-3.41	150474.900	1.5	157673.320	2.5
1388.8179	29.01	-.19	139217.300	2.0	146415.700	2.0
1388.8295	27.00	-3.51	45876.580	2.5	53074.920	1.5
1388.8468	25.00	-4.24	49888.080	3.5	57086.330	2.5
1388.8555	26.00	-4.22	46727.055	2.0	53925.260	1.0
1388.8700	19.00	-2.34	27398.140	1.5	34596.270	1.5
1388.8700	19.00	-1.64	27398.140	1.5	34596.270	.5
1388.8989	25.00	-3.68	57485.970	2.5	64683.950	1.5
1388.9086	28.01	-4.71	108368.050	2.5	115565.980	2.5
1388.9591	26.00	-4.73	37046.000	4.0	44243.668	5.0
1388.9723	13.01	-2.22	140091.200	1.0	147288.800	0.0
1389.0031	8.01	-2.00	206972.300	1.5	214169.740	.5
1389.0089	6.00	-3.87	81343.990	2.0	88541.400	2.0
1389.0668	22.00	-3.39	39640.980	3.0	46838.090	4.0
1389.0880	10.03	-4.71	636475.000	1.5	643672.000	1.5
1389.0942	7.00	-3.20	106996.032	1.5	114193.000	1.5
1389.1073	15.04	-.26	345398.400	1.5	352595.300	2.5
1389.2135	22.00	-3.77	35527.760	1.0	42724.110	2.0
1389.2502	26.00	-2.83	53353.020	6.0	60549.180	5.0
1389.2643	26.00	-9.04	12560.933	3.0	19757.020	3.0
1389.2956	7.00	-.16	112953.400	5.5	120149.325	4.5
1389.3149	7.00	-1.14	112953.500	4.5	120149.325	4.5
1389.3317	7.00	-2.83	112953.500	4.5	120149.238	3.5
1389.3427	17.00	-.77	84485.309	1.5	91680.990	1.5
1389.3944	17.00	-1.86	83894.037	3.5	91089.450	3.5
1389.4008	29.01	-.36	139741.100	3.0	146936.480	2.0
1389.4181	17.00	-.87	94663.670	1.5	101858.960	2.5
1389.4489	7.00	-1.95	107037.069	2.5	114232.200	1.5
1389.4838	26.01	-4.26	54870.620	2.5	62065.570	3.5
1389.5031	14.02	-4.40	250636.550	2.0	257831.400	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1389.5089	26.00	-2.53	51076.680	4.0	58271.500	5.0
1389.5244	26.00	-3.33	51630.070	2.0	58824.810	2.0
1389.5495	24.00	-3.76	48014.400	4.0	55209.010	4.0
1389.5636	26.00	-1.99	40842.130	3.0	48036.667	2.0
1389.5862	18.01	-4.59	201608.820	3.5	208803.240	4.5
1389.6132	27.00	-2.08	43847.980	3.5	51042.260	2.5
1389.6132	28.01	-2.59	111120.540	1.5	118314.820	2.5
1389.7174	14.00	-2.08	57468.239	2.0	64661.980	3.0
1389.7803	26.00	.16	43434.585	3.0	50628.000	3.0
1389.8393	25.00	-4.25	55107.520	3.5	62300.630	4.5
1389.9019	26.00	-3.26	44826.920	0.0	52019.706	1.0
1389.9784	21.00	-3.60	37717.110	3.5	44909.500	2.5
1389.9914	28.00	-4.05	42585.296	4.0	49777.619	3.0
1390.0364	19.00	-1.98	27450.690	.5	34642.780	1.5
1390.0364	19.00	-2.28	27450.690	.5	34642.780	.5
1390.0538	15.04	-.10	345403.300	2.5	352595.300	3.5
1390.0538	15.04	-1.40	345403.300	2.5	352595.300	2.5
1390.1079	18.01	-3.28	192333.430	.5	199525.150	1.5
1390.1311	13.01	-1.79	140091.200	1.0	147282.800	1.0
1390.1311	13.01	-2.88	140091.200	2.0	147282.800	1.0
1390.1311	13.01	-1.31	140091.200	1.0	147282.800	2.0
1390.1311	13.01	-1.70	140091.200	2.0	147282.800	2.0
1390.1311	13.01	-.96	140091.200	2.0	147282.800	3.0
1390.1311	13.01	-1.58	140091.200	0.0	147282.800	1.0
1390.1430	7.00	-3.12	112957.700	2.5	120149.238	3.5
1390.1504	30.02	-3.03	292861.700	1.0	300053.200	2.0
1390.1504	30.02	-2.21	292861.700	2.0	300053.200	2.0
1390.2026	24.00	-4.59	35398.020	4.0	42589.250	5.0
1390.2084	30.02	-2.63	295635.800	2.0	302827.000	2.0
1390.2084	30.02	-1.58	295635.800	3.0	302827.000	2.0
1390.2703	21.00	-4.79	11520.150	1.5	18711.030	.5
1390.3438	30.02	-2.31	292892.500	3.0	300083.000	3.0
1390.3438	30.02	-2.94	292892.500	2.0	300083.000	3.0
1390.3496	27.00	-1.95	43952.060	5.5	51142.530	6.5
1390.3573	7.00	-3.68	97805.810	1.5	104996.240	1.5
1390.3650	24.00	-3.28	48014.400	4.0	55204.790	3.0
1390.4230	25.00	-2.64	56356.210	3.5	63546.300	3.5
1390.4463	8.01	-.16	238626.320	.5	245816.290	1.5
1390.5348	14.00	-1.84	51612.012	0.0	58801.524	1.0
1390.6029	26.00	-3.27	47197.000	2.0	54386.160	1.0
1390.6166	26.00	-3.58	44415.057	4.0	51604.146	3.0
1390.6414	7.00	-4.53	104664.100	1.5	111853.061	1.5
1390.6609	28.01	-2.47	114052.040	3.5	121240.900	3.5
1390.6609	10.01	-4.52	306243.420	2.5	313432.280	3.5
1390.6900	22.00	-3.06	39785.940	4.0	46974.650	5.0
1390.6940	7.00	-2.67	104716.920	3.5	111905.609	2.5
1390.7037	26.00	-3.58	44551.325	3.0	51739.964	2.0
1390.7112	30.02	-1.44	292937.400	5.0	300126.000	4.0
1390.7114	20.00	-1.59	35730.454	2.0	42919.053	2.0
1390.7228	24.00	-3.76	47786.100	2.0	54974.640	2.0
1390.7397	18.00	-1.43	106237.597	2.0	113426.050	2.0
1390.7461	26.00	-4.96	24118.815	4.0	31307.235	4.0
1390.8171	10.00	-2.64	162517.872	1.0	169705.925	0.0
1390.8679	6.00	-1.34	79310.850	2.0	86498.640	2.0
1390.8853	6.00	-2.30	79310.850	2.0	86498.550	1.0
1390.9241	29.01	.10	139028.200	2.0	146215.700	1.0
1390.9376	28.01	-4.20	120144.170	2.5	127331.600	2.5
1390.9473	18.00	.52	113020.390	3.0	120207.770	4.0
1390.9725	28.01	-4.76	105499.050	3.5	112686.300	2.5
1391.1027	26.00	-4.50	44183.607	2.0	51370.184	2.0
1391.1079	28.00	-2.91	51343.800	2.0	58530.350	3.0
1391.1254	17.00	-1.85	90487.870	3.5	97674.330	2.5
1391.1310	26.00	-4.56	47693.289	3.0	54879.720	2.0
1391.1715	17.00	-.51	90487.870	3.5	97674.092	3.5
1391.2144	30.02	-1.28	292937.400	6.0	300123.400	5.0
1391.2144	30.02	-3.20	292937.400	5.0	300123.400	5.0
1391.2144	29.01	-.02	139241.600	1.0	146427.600	1.0
1391.2206	7.00	-2.72	106996.032	1.5	114182.000	2.5
1391.2550	20.02	-2.57	363118.750	3.0	370304.540	2.0
1391.2918	15.01	-4.38	124947.600	2.0	132133.200	3.0
1391.3926	25.00	-2.31	56189.450	4.5	63374.530	4.5
1391.3949	55.00	-1.83	21946.660	0.0	29133.692	0.0
1391.4661	30.02	-2.66	292923.400	3.0	300108.100	3.0
1391.4661	30.02	-1.79	292923.400	4.0	300108.100	3.0
1391.5014	10.00	-4.32	165912.782	1.0	173097.300	0.0
1391.5437	6.00	-2.63	78215.510	3.0	85399.810	2.0
1391.5504	26.00	-3.32	44166.240	3.0	51350.505	4.0
1391.5630	30.02	-2.77	295685.600	3.0	302869.800	3.0
1391.5630	30.02	-1.46	295685.600	4.0	302869.800	3.0
1391.6027	7.00	-2.54	112965.330	3.5	120149.325	4.5
1391.6195	7.00	-4.18	112965.330	3.5	120149.238	3.5
1391.6792	30.02	-2.25	292892.500	2.0	300076.100	2.0
1391.6792	30.02	-2.65	292892.500	3.0	300076.100	2.0
1391.7180	30.02	-2.29	292942.600	4.0	300126.000	4.0
1391.7180	30.02	-2.08	292942.600	5.0	300126.000	4.0
1391.8133	14.00	-1.63	50189.389	2.0	57372.297	2.0
1391.8885	7.00	-2.60	106980.480	.5	114163.000	1.5
1391.9040	26.00	-2.88	47197.000	2.0	54379.440	3.0
1391.9215	18.01	-3.02	202155.860	2.5	209338.210	3.5
1391.9379	7.00	-2.00	112967.060	4.5	120149.325	4.5
1391.9547	7.00	-.36	112967.060	4.5	120149.238	3.5
1391.9592	7.00	-3.01	112967.170	3.5	120149.325	4.5
1391.9760	7.00	-4.63	112967.170	3.5	120149.238	3.5
1391.9950	17.00	-1.70	94663.670	1.5	101845.640	1.5
1392.0460	26.00	-4.61	33412.706	3.0	40594.413	4.0
1392.0460	28.00	-3.35	51343.800	2.0	58525.507	1.0
1392.0569	26.00	-3.21	47377.909	4.0	54559.560	3.0
1392.1959	28.00	-2.48	46522.965	2.0	53703.899	1.0
1392.2219	30.02	-3.77	292942.600	4.0	300123.400	5.0
1392.2219	30.02	-1.99	292942.600	5.0	300123.400	5.0
1392.2380	7.00	-3.14	107628.283	1.5	114809.000	.5
1392.2994	30.02	-4.04	258075.700	3.0	265256.100	3.0
1392.3764	18.00	-3.35	118651.447	1.0	125831.450	0.0
1392.3774	22.00	-4.81	27355.042	1.0	34535.040	2.0
1392.4041	6.00	-.81	79318.780	1.0	86498.640	2.0
1392.4061	23.00	-4.73	35225.040	2.5	42404.890	3.5
1392.4216	6.00	-1.10	79318.780	1.0	86498.550	1.0
1392.4643	14.02	-4.43	242639.380	4.0	249818.930	5.0
1392.4643	14.02	-2.68	242639.380	5.0	249818.930	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1392.4643	14.02	-2.79	242639.380	5.0	249818.930	5.0
1392.4643	14.02	-.96	242639.380	6.0	249818.930	5.0
1392.4689	17.00	-1.53	90487.870	3.5	97667.396	3.5
1392.4701	18.01	-3.40	211761.380	4.5	218940.900	4.5
1392.4701	18.01	-1.65	211761.380	4.5	218940.900	5.5
1392.4701	7.00	-2.18	106980.480	.5	114160.000	1.5
1392.4740	18.01	-1.74	211761.400	3.5	218940.900	4.5
1392.4815	28.00	-3.08	43654.974	3.0	50834.435	2.0
1392.5242	14.00	-1.11	57468.239	2.0	64647.480	3.0
1392.6097	27.00	-2.59	45924.980	3.5	53103.780	3.5
1392.6137	17.00	-.94	90487.870	3.5	97666.650	4.5
1392.6255	26.00	-4.08	47197.000	2.0	54375.719	2.0
1392.6330	28.01	-4.64	129782.070	3.5	136960.750	2.5
1392.6350	26.01	-3.12	54904.500	3.5	62083.170	4.5
1392.6524	28.00	-2.99	50789.500	4.0	57968.080	3.0
1392.6563	14.02	-2.79	242639.380	4.0	249817.940	4.0
1392.6563	14.02	-1.04	242639.380	5.0	249817.940	4.0
1392.6600	14.00	-2.10	57468.239	2.0	64646.780	2.0
1392.6622	7.00	-2.54	97805.810	1.5	104984.340	.5
1392.6738	14.02	-2.69	242639.380	4.0	249817.850	4.0
1392.6738	14.02	-1.04	242639.380	5.0	249817.850	4.0
1392.6738	14.02	-4.68	242639.380	5.0	249817.850	4.0
1392.7766	14.02	-1.14	242639.380	4.0	249817.320	3.0
1392.8290	28.01	-2.50	99442.860	4.5	106620.530	3.5
1392.8503	28.01	-3.10	128853.870	2.5	136031.430	2.5
1392.8624	22.00	-3.45	38544.380	3.0	45721.878	4.0
1392.8728	26.00	-3.74	46889.126	4.0	54066.570	4.0
1392.8948	26.00	-3.49	47271.999	1.0	54449.330	1.0
1392.9318	24.00	-3.13	50184.100	2.0	57361.240	3.0
1392.9464	28.00	-3.48	43654.974	3.0	50832.039	3.0
1392.9668	18.01	-2.69	202420.490	.5	209597.450	1.5
1393.1318	29.01	-.26	139710.200	2.0	146886.310	1.0
1393.1997	28.01	-2.63	114052.040	3.5	121227.800	2.5
1393.2716	6.00	-.96	79323.160	0.0	86498.550	1.0
1393.2947	17.00	-1.73	84485.309	1.5	91660.580	2.5
1393.3434	28.01	-3.80	120044.950	4.5	127219.970	3.5
1393.4056	30.02	-3.17	292923.400	3.0	300098.100	4.0
1393.4056	30.02	-2.04	292923.400	4.0	300098.100	4.0
1393.4425	23.00	-4.72	35379.110	3.5	42553.620	4.5
1393.4871	28.01	.03	131928.770	4.5	139103.050	5.5
1393.5110	7.00	-5.00	105119.850	1.5	112294.007	.5
1393.5221	29.01	-4.95	139241.600	1.0	146415.700	2.0
1393.6151	55.00	-1.82	18535.519	0.0	25711.101	0.0
1393.6934	26.00	-4.41	44664.061	2.0	51837.279	3.0
1393.6950	17.00	-3.04	94827.150	2.5	102000.360	1.5
1393.7630	6.00	-4.52	81325.760	1.0	88498.620	2.0
1393.8426	6.00	-2.17	80562.850	1.0	87735.300	1.0
1393.8485	24.00	-2.09	47814.400	3.0	54986.820	3.0
1393.8499	22.00	-3.20	18145.400	2.0	25317.813	1.0
1393.9107	18.01	.42	181594.050	2.5	188766.150	2.5
1393.9185	24.00	-1.20	50210.870	4.0	57382.930	5.0
1393.9437	6.00	-1.58	79310.850	2.0	86482.780	2.0
1393.9554	23.00	-2.47	14949.300	4.5	22121.170	4.5
1393.9670	6.00	-.42	79310.850	2.0	86482.660	3.0
1393.9865	6.00	-.33	77679.820	2.0	84851.530	1.0
1394.0079	13.01	-.57	139242.900	3.0	146414.500	4.0
1394.0079	13.01	-.39	139242.900	3.0	146414.500	4.0
1394.0079	13.01	-4.64	139242.900	3.0	146414.500	3.0
1394.0565	23.00	-4.56	30832.580	2.5	38003.930	1.5
1394.0643	8.01	.24	238731.540	1.5	245902.850	2.5
1394.1226	6.01	-.76	168123.740	1.5	175294.750	1.5
1394.1633	13.01	-1.28	135009.000	0.0	142179.800	1.0
1394.1655	26.00	-3.86	40207.120	3.0	47377.909	4.0
1394.2412	28.01	-2.96	129503.240	4.5	136673.640	4.5
1394.2598	14.00	-1.93	57017.496	2.0	64187.800	3.0
1394.2606	6.01	.19	168124.450	2.5	175294.750	1.5
1394.2800	15.00	-1.96	68183.200	1.5	75353.400	1.5
1394.3129	7.00	-2.88	104683.030	2.5	111853.061	1.5
1394.3464	26.00	.31	43633.491	2.0	50803.350	2.0
1394.3574	26.00	-4.47	44022.518	4.0	51192.320	4.0
1394.3812	24.00	-4.96	38537.680	5.0	45707.360	6.0
1394.4304	26.00	-2.87	48928.423	2.0	56097.850	3.0
1394.4940	15.01	.17	131353.300	2.0	138522.400	1.0
1394.5367	18.01	-2.93	204417.230	1.5	211586.110	2.5
1394.5718	26.00	-4.24	44166.240	3.0	51334.940	4.0
1394.5835	29.01	-3.15	116388.000	2.0	123556.640	2.0
1394.5854	25.02	-2.27	208743.100	2.5	215911.730	1.5
1394.6554	18.00	-2.30	113020.390	3.0	120188.660	2.0
1394.6749	23.00	-3.01	36897.880	4.5	44066.050	3.5
1394.7119	15.00	-1.72	65450.020	1.5	72618.000	.5
1394.7138	25.00	-4.31	55405.140	2.5	62573.110	1.5
1394.7664	13.01	-1.28	135012.100	1.0	142179.800	1.0
1394.7839	25.00	-2.89	56356.210	3.5	63523.820	2.5
1394.7858	7.01	.06	203537.660	1.0	210705.260	2.0
1394.8618	18.01	-1.11	147875.860	2.5	155043.070	2.5
1394.8637	30.02	-3.60	295702.600	4.0	302869.800	3.0
1394.9088	7.00	-3.10	106996.032	1.5	114163.000	1.5
1394.9246	22.00	-3.34	39077.713	1.0	46244.600	2.0
1394.9676	14.00	-1.43	49850.830	2.0	57017.496	2.0
1394.9724	12.00	-2.31	53134.642	2.0	60301.283	2.0
1394.9724	12.00	-3.30	53134.642	2.0	60301.283	3.0
1394.9724	12.00	-1.08	53134.642	2.0	60301.283	3.0
1394.9902	24.00	-4.32	50184.100	2.0	57350.650	2.0
1395.0090	14.00	-2.84	57198.027	3.0	64364.480	2.0
1395.0408	27.00	-2.48	44394.470	3.5	51560.760	2.5
1395.0525	29.01	-3.03	138819.170	3.0	145985.400	2.0
1395.1031	24.00	-4.54	44080.900	2.0	51246.870	1.0
1395.1128	25.02	-.88	208751.600	4.5	215917.520	4.5
1395.1303	29.01	-1.17	137649.100	2.0	144814.930	3.0
1395.1946	30.02	-1.77	292942.600	4.0	300108.100	3.0
1395.3056	23.00	-4.07	31962.300	.5	39127.230	1.5
1395.3114	29.01	.25	139331.300	3.0	146496.200	3.0
1395.3256	26.00	-3.97	47092.693	3.0	54257.520	2.0
1395.4030	28.01	-3.17	128867.000	3.5	136031.430	2.5
1395.4517	28.01	-3.27	126738.820	1.5	133903.000	1.5
1395.4867	29.01	-.04	139395.800	4.0	146559.800	4.0
1395.4867	6.00	-1.13	79318.780	1.0	86482.780	2.0
1395.4930	7.00	-2.54	106996.032	1.5	114160.000	1.5
1395.4930	7.00	-1.53	106996.032	1.5	114160.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1395.5083	22.00	-3.25	34204.971	4.0	41368.860	4.0
1395.5549	6.01	-.06	168123.740	1.5	175287.390	.5
1395.5842	17.01	-3.73	121499.000	2.0	128662.500	2.0
1395.6036	8.01	-1.80	248009.100	1.5	255172.500	1.5
1395.6211	23.00	-4.06	19189.280	1.5	26352.590	2.5
1395.6367	25.00	-1.91	57485.970	2.5	64649.200	3.5
1395.7010	17.00	-.27	84988.480	1.5	92151.380	.5
1395.7205	8.02	-2.62	370524.200	2.0	377687.000	2.0
1395.7400	30.02	-1.24	292886.100	6.0	300048.800	5.0
1395.8842	28.01	-4.70	115108.090	2.5	122270.050	3.5
1395.8940	24.00	-1.70	50210.870	4.0	57372.780	4.0
1395.9173	22.00	-1.72	38670.710	4.0	45832.500	5.0
1395.9251	25.02	-.54	209032.300	5.5	216194.050	5.5
1395.9563	22.01	-4.79	63444.760	3.5	70606.350	2.5
1396.0573	26.00	-1.98	40594.413	4.0	47755.485	3.0
1396.0577	26.01	-3.87	54904.500	3.5	62065.570	3.5
1396.0908	30.02	-3.12	292886.100	6.0	300047.000	6.0
1396.0908	30.02	-1.17	292886.100	7.0	300047.000	6.0
1396.0908	13.01	-.58	135018.900	2.0	142179.800	1.0
1396.1103	29.01	-2.06	139395.800	4.0	146556.600	3.0
1396.1298	30.02	-2.57	292892.500	2.0	300053.200	2.0
1396.1298	30.02	-1.73	292892.500	3.0	300053.200	2.0
1396.1298	30.02	-2.16	292937.400	5.0	300098.100	4.0
1396.1688	7.01	-.31	202765.260	2.0	209925.760	2.0
1396.2084	26.00	-4.84	47106.463	4.0	54266.760	5.0
1396.2137	17.00	-2.10	85442.430	1.5	92602.700	.5
1396.2195	24.00	-3.91	47814.400	3.0	54974.640	2.0
1396.2878	18.01	-1.50	202253.590	1.5	209413.480	1.5
1396.3443	30.02	-1.89	292923.400	4.0	300083.000	3.0
1396.3443	30.02	-2.13	292923.400	3.0	300083.000	3.0
1396.3891	18.01	-3.82	194996.490	1.5	202155.860	2.5
1396.4165	29.01	-4.14	138819.170	3.0	145978.400	3.0
1396.4748	7.00	-1.99	107037.069	2.5	114196.000	2.5
1396.4945	25.01	-4.49	69215.730	1.0	76374.560	2.0
1396.5160	26.00	-2.78	51361.460	3.0	58520.180	4.0
1396.5277	6.00	-1.01	79310.850	2.0	86469.510	3.0
1396.5585	26.00	-4.57	38175.332	3.0	45333.834	2.0
1396.6370	17.01	-2.34	151019.000	2.0	158177.100	1.0
1396.7891	10.01	-4.47	306262.770	1.5	313420.090	2.5
1396.8789	27.00	-3.27	46186.410	1.5	53343.270	1.5
1397.0603	7.00	-4.24	107037.069	2.5	114193.000	1.5
1397.0957	10.00	-2.23	163401.301	0.0	170557.050	1.0
1397.1034	6.00	-2.26	80562.850	1.0	87718.560	1.0
1397.1444	30.02	-1.51	292942.600	5.0	300098.100	4.0
1397.1444	30.02	-2.39	292942.600	4.0	300098.100	4.0
1397.1491	18.00	-4.93	116660.054	1.0	123815.530	1.0
1397.1512	26.00	-4.70	53393.715	4.0	60549.180	5.0
1397.2089	23.00	-3.99	36763.410	2.5	43918.580	2.5
1397.2219	26.00	-4.85	44415.057	4.0	51570.160	3.0
1397.2225	30.02	-1.31	295653.300	5.0	302808.400	4.0
1397.2264	18.01	-.46	182951.150	.5	190106.230	1.5
1397.2342	18.01	-2.83	204417.230	1.5	211572.270	1.5
1397.2713	28.01	-2.71	121699.020	1.5	128853.870	2.5
1397.2967	17.00	-1.37	91538.500	1.5	98693.220	2.5
1397.3026	22.00	-3.36	17540.205	3.0	24694.895	4.0
1397.3143	6.00	-3.66	81343.990	2.0	88498.620	2.0
1397.3397	15.00	-3.69	70689.400	3.5	77843.900	2.5
1397.4719	14.00	-2.39	57198.027	3.0	64351.850	3.0
1397.4823	27.00	-3.95	47128.960	2.5	54282.730	2.5
1397.4907	26.00	-4.90	44551.325	3.0	51705.052	2.0
1397.5045	16.00	-1.15	70701.840	2.0	77855.496	3.0
1397.5397	26.00	-3.85	46720.824	4.0	53874.300	5.0
1397.6913	30.02	-1.69	292923.400	3.0	300076.100	2.0
1397.7050	28.01	-2.77	109038.840	1.5	116191.470	2.5
1397.7074	10.00	-3.76	165912.782	1.0	173065.400	2.0
1397.8971	17.00	-2.30	84988.480	1.5	92140.127	1.5
1398.0021	21.00	-4.35	32751.540	3.5	39902.650	3.5
1398.0236	30.02	-3.04	295653.300	5.0	302804.300	5.0
1398.0236	30.02	-1.23	295653.300	6.0	302804.300	5.0
1398.0473	28.00	-2.34	35639.148	3.0	42790.027	2.0
1398.0682	20.00	-1.32	41679.008	1.0	48829.780	1.0
1398.0682	20.00	-.67	41679.008	1.0	48829.780	2.0
1398.1228	7.00	-1.78	106996.032	1.5	114146.525	2.5
1398.1324	16.00	-1.31	70701.840	2.0	77852.284	2.0
1398.1468	24.00	-2.76	50210.870	4.0	57361.240	3.0
1398.2094	28.01	-2.21	115120.000	2.5	122270.050	3.5
1398.2563	28.00	-2.09	47424.830	1.0	54574.640	1.0
1398.3091	24.00	-2.10	41409.030	2.0	48558.570	2.0
1398.3130	7.00	-2.97	106980.480	.5	114130.000	.5
1398.3169	29.01	-2.19	138883.000	4.0	146032.500	5.0
1398.3647	28.00	-1.49	45122.460	1.0	52271.716	2.0
1398.4245	25.00	-4.65	38934.940	2.5	46083.890	1.5
1398.4362	21.00	-.97	30706.610	1.5	37855.500	2.5
1398.5036	18.00	-1.94	116660.054	1.0	123808.600	2.0
1398.5087	6.00	-3.70	80562.850	1.0	87711.370	0.0
1398.5124	14.00	-2.94	57468.239	2.0	64616.740	2.0
1398.5145	23.00	-4.66	19023.470	4.5	26171.960	4.5
1398.6201	16.00	-1.53	70701.840	2.0	77849.790	1.0
1398.7115	26.00	-4.86	44183.607	2.0	51331.090	2.0
1398.8061	30.02	-2.19	292861.700	1.0	300008.700	1.0
1398.8061	30.02	-2.35	292861.700	2.0	300008.700	1.0
1398.8061	24.00	-2.45	35501.260	3.0	42648.260	3.0
1398.8119	22.00	-3.09	35577.140	2.0	42724.110	2.0
1398.9039	29.01	-2.28	138883.000	4.0	146029.500	4.0
1399.0108	17.00	-4.41	94314.206	1.5	101460.160	1.5
1399.0155	25.00	-3.21	55368.660	1.5	62514.590	2.5
1399.0805	22.00	-4.86	20209.444	2.0	27355.042	1.0
1399.0840	19.00	-2.06	27450.690	.5	34596.270	1.5
1399.0840	19.00	-2.36	27450.690	.5	34596.270	.5
1399.0879	24.00	-3.12	46637.210	3.0	53782.770	4.0
1399.1271	6.00	-2.32	80562.850	1.0	87708.210	2.0
1399.2111	7.00	-2.50	107037.069	2.5	114182.000	2.5
1399.2805	18.00	-2.56	107496.463	1.0	114641.040	2.0
1399.2942	26.00	-4.79	47092.693	3.0	54237.200	4.0
1399.3464	6.00	-1.84	71385.380	2.0	78529.620	3.0
1399.3911	26.00	-3.39	47017.170	3.0	54161.182	3.0
1399.5228	19.00	-1.45	27397.100	2.5	34540.440	1.5
1399.5449	14.00	-.29	50054.800	4.0	57198.027	3.0
1399.5796	18.01	.23	195864.640	2.5	203007.690	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1399.7265	19.00	-2.40	27398.140	1.5	34540.440	1.5
1399.7520	25.00	-2.04	17637.150	.5	24779.320	1.5
1399.7677	19.00	-1.70	27398.140	1.5	34540.230	.5
1399.8451	26.00	-4.17	40894.972	2.0	48036.667	2.0
1399.8598	18.01	-3.97	201781.790	2.5	208923.410	2.5
1399.8873	8.01	-.16	238626.320	.5	245767.800	.5
1399.8932	9.02	-3.54	418248.560	1.5	425390.010	.5
1399.9029	30.02	-3.71	295685.600	3.0	302827.000	2.0
1399.9284	27.00	-2.52	46562.870	1.5	53704.140	2.5
1399.9814	29.01	-2.66	138883.000	4.0	146024.000	4.0
1399.9951	18.01	-.66	195866.760	1.5	203007.690	1.5
1400.0100	7.00	-2.69	104144.790	.5	111285.644	1.5
1400.0167	10.01	-1.99	321428.070	2.5	328568.890	1.5
1400.0225	24.00	-3.56	35398.020	4.0	42538.810	3.0
1400.0807	18.00	-4.44	118651.447	1.0	125791.940	2.0
1400.0990	30.02	-1.85	292942.600	4.0	300083.000	3.0
1400.1186	13.01	-1.92	132776.400	0.0	139916.700	1.0
1400.1382	28.01	-4.23	128837.110	5.5	135977.310	4.5
1400.1441	23.00	-3.82	36925.880	3.5	44066.050	3.5
1400.1549	28.00	-4.91	49032.589	2.0	56172.704	3.0
1400.1755	26.00	-4.03	48238.832	2.0	55378.842	2.0
1400.2221	17.00	-3.42	94663.670	1.5	101803.442	2.5
1400.3540	22.00	-2.66	41585.240	3.0	48724.340	2.0
1400.4324	26.00	-2.82	51381.480	4.0	58520.180	4.0
1400.4389	7.00	-1.30	107037.069	2.5	114175.736	3.5
1400.4560	23.00	-3.71	35225.040	2.5	42363.620	3.5
1400.4717	29.01	-3.31	138883.000	4.0	146021.500	3.0
1400.4771	28.00	-2.68	48735.308	2.0	55873.780	2.0
1400.5109	28.01	-2.06	114052.040	3.5	121190.340	4.5
1400.6090	13.01	-1.59	140091.200	1.0	147229.000	1.0
1400.6090	13.01	-1.28	140091.200	2.0	147229.000	1.0
1400.6090	13.01	-1.98	140091.200	0.0	147229.000	1.0
1400.6482	28.01	-4.86	128818.410	6.5	135956.010	5.5
1400.7420	26.00	.20	43763.938	1.0	50901.060	2.0
1400.9525	24.00	-.96	50253.270	5.0	57389.320	6.0
1400.9643	8.01	.53	238892.960	2.5	246028.950	3.5
1401.1154	23.01	-2.60	66158.600	4.0	73293.820	5.0
1401.2902	10.01	-3.53	321434.560	2.5	328568.890	1.5
1401.3613	7.00	-2.27	106996.032	1.5	114130.000	.5
1401.4493	27.00	-4.51	48443.760	2.5	55577.280	1.5
1401.5786	10.00	-2.31	162410.174	3.0	169543.036	4.0
1401.5800	10.00	-3.73	162410.174	3.0	169543.029	3.0
1401.5849	26.00	-4.62	51691.980	3.0	58824.810	2.0
1401.6242	25.02	-1.99	208743.100	2.5	215875.730	2.5
1401.6786	18.00	-3.82	118651.447	1.0	125783.800	1.0
1401.7402	28.01	-1.54	100010.170	.5	107142.210	1.5
1401.7874	8.01	-3.62	248009.100	1.5	255140.900	1.5
1401.8778	27.00	-4.78	47225.110	3.5	54356.450	4.5
1401.9269	27.00	-3.66	43921.890	2.5	51052.980	3.5
1402.0232	15.00	-3.34	74271.800	1.5	81402.400	2.5
1402.0561	9.00	-3.13	118936.797	1.5	126067.230	.5
1402.0724	28.01	-4.32	130147.870	.5	137278.220	1.5
1402.0803	18.01	-2.00	202467.140	1.5	209597.450	1.5
1402.0816	10.00	-3.18	162408.653	2.0	169538.956	2.0
1402.0830	10.00	-2.03	162408.653	2.0	169538.949	3.0
1402.1806	30.02	-3.18	292923.400	3.0	300053.200	2.0
1402.2081	24.00	-1.69	50253.270	5.0	57382.930	5.0
1402.3536	28.01	-4.75	109038.840	1.5	116167.760	1.5
1402.3808	10.00	-4.16	162410.174	3.0	169538.956	2.0
1402.3822	10.00	-2.86	162410.174	3.0	169538.949	3.0
1402.4101	26.00	-4.79	44411.137	1.0	51539.770	2.0
1402.5303	26.00	-4.56	44166.240	3.0	51294.262	3.0
1402.6166	17.00	-2.64	94468.857	.5	101596.440	.5
1402.6476	14.00	-.72	49850.830	2.0	56978.256	1.0
1402.7696	7.00	-3.43	104144.790	.5	111271.596	.5
1402.7924	25.00	-3.08	50359.280	3.5	57485.970	2.5
1402.7984	17.00	-1.64	94732.300	3.5	101858.960	2.5
1402.8637	14.00	-1.75	57798.072	2.0	64924.400	3.0
1402.8771	24.01	-3.75	59130.510	1.5	66256.770	.5
1402.9419	7.00	-2.57	107037.069	2.5	114163.000	1.5
1402.9573	18.00	-3.90	118651.447	1.0	125777.300	1.0
1403.0169	28.01	-4.41	106283.160	2.5	113408.710	1.5
1403.0860	17.00	-3.94	88188.550	1.5	95313.749	1.5
1403.1764	18.01	-1.53	195031.120	2.5	202155.860	2.5
1403.2926	28.01	-3.91	106283.160	2.5	113407.310	2.5
1403.3426	28.00	-4.63	42653.723	2.0	49777.619	3.0
1403.4048	18.01	-.51	202253.590	1.5	209377.170	2.5
1403.4423	28.01	-2.22	126738.820	1.5	133862.210	1.5
1403.4778	28.01	-2.36	121699.020	1.5	128822.230	1.5
1403.5099	10.00	-2.43	162419.982	2.0	169543.029	3.0
1403.5251	28.01	-4.73	128837.110	5.5	135960.080	4.5
1403.5326	18.00	-4.17	114147.750	1.0	121270.682	2.0
1403.5327	7.00	-3.53	107037.069	2.5	114160.000	2.5
1403.5389	17.01	-3.75	121499.000	2.0	128621.900	1.0
1403.5586	30.02	-3.98	295685.600	3.0	302808.400	4.0
1403.6808	15.00	-.43	65450.020	1.5	72572.200	1.5
1403.7481	10.00	-3.54	162408.653	2.0	169530.491	1.0
1403.7489	10.00	-2.59	162408.653	2.0	169530.487	2.0
1403.7872	28.01	-2.86	98467.250	3.5	105588.890	4.5
1403.8223	26.00	-2.91	47136.058	2.0	54257.520	2.0
1403.8779	28.01	-2.18	130661.320	5.5	137782.500	4.5
1403.8877	28.01	-4.19	129271.720	3.5	136392.850	3.5
1403.9646	27.00	-3.77	47393.930	2.5	54514.670	3.5
1403.9904	26.00	-2.14	40257.300	5.0	47377.909	4.0
1404.0001	14.02	-.59	207874.090	0.0	214994.650	1.0
1404.0007	22.00	-4.03	41341.553	5.0	48462.110	5.0
1404.0435	24.00	-4.20	47866.480	4.0	54986.820	3.0
1404.0454	23.00	-1.23	15000.840	5.5	22121.170	4.5
1404.0455	15.00	-2.71	65373.470	.5	72493.800	1.5
1404.0474	23.01	-2.37	66158.600	4.0	73278.920	4.0
1404.0488	10.00	-4.15	162410.174	3.0	169530.487	2.0
1404.2072	24.00	-2.81	50253.270	5.0	57372.780	4.0
1404.2288	13.01	.14	125700.500	0.0	132819.900	1.0
1404.2683	18.01	-1.78	202149.110	2.5	209268.310	1.5
1404.3040	14.00	-2.70	54185.264	1.0	61304.283	2.0
1404.3129	10.00	-3.01	162419.982	2.0	169538.956	2.0
1404.3143	10.00	-4.17	162419.982	2.0	169538.949	3.0
1404.3196	14.01	-2.05	117915.060	.5	125034.000	1.5
1404.3255	28.01	-1.77	126738.820	1.5	133857.730	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1404.3387	26.00	-3.61	40842.130	3.0	47960.973	4.0
1404.3669	30.02	-3.93	295685.600	4.0	302804.300	5.0
1404.4951	17.00	-3.26	94827.150	2.5	101945.200	1.5
1404.5030	18.01	-3.84	203007.690	1.5	210125.700	2.5
1404.5635	22.00	-2.75	28882.440	3.0	36000.144	4.0
1404.6234	9.02	-4.91	380250.520	2.5	387367.920	2.5
1404.6827	29.01	-1.47	141244.600	1.0	148361.700	1.0
1404.6975	22.00	-3.68	27418.015	2.0	34535.040	2.0
1404.8603	30.02	-2.19	292892.500	2.0	300008.700	1.0
1404.8998	8.01	-.70	248185.300	2.5	255301.300	2.5
1404.9156	7.00	-2.18	97770.150	.5	104886.070	.5
1404.9176	25.00	-4.28	55457.200	.5	62573.110	1.5
1404.9195	24.00	-3.13	46524.840	2.0	53640.740	3.0
1404.9314	22.00	-3.34	34078.580	3.0	41194.420	3.0
1404.9867	18.01	-1.49	172816.210	.5	179931.770	1.5
1405.1328	28.01	-4.48	128862.490	4.5	135977.310	4.5
1405.1525	25.00	-3.55	44523.450	3.5	51638.170	2.5
1405.3540	13.01	.01	125706.200	1.0	132819.900	1.0
1405.3540	13.01	.49	125706.200	1.0	132819.900	2.0
1405.4706	18.01	-3.07	192333.430	.5	199446.540	.5
1405.5437	25.00	-3.40	50373.230	2.5	57485.970	2.5
1405.6306	15.01	-1.11	131632.000	3.0	138744.300	3.0
1405.6977	28.00	-2.78	47139.392	2.0	54251.353	3.0
1405.7259	26.00	-3.99	43499.485	4.0	50611.303	3.0
1405.8086	30.02	-2.24	292937.400	5.0	300048.800	5.0
1405.9509	28.01	-3.26	112686.300	2.5	119796.980	2.5
1405.9558	26.00	-4.13	44183.607	2.0	51294.262	3.0
1405.9847	10.00	-4.34	162419.982	2.0	169530.491	1.0
1405.9985	14.00	-2.38	40991.884	1.0	48102.323	2.0
1406.0577	14.01	-2.42	117915.060	.5	125025.200	.5
1406.1645	30.02	-4.07	292937.400	5.0	300047.000	6.0
1406.1645	30.02	-2.18	292937.400	6.0	300047.000	6.0
1406.1763	27.00	-4.30	41968.890	2.5	49078.430	1.5
1406.1888	18.00	-2.08	114147.750	1.0	121257.227	1.0
1406.1930	7.00	-1.41	107037.069	2.5	114146.525	2.5
1406.1941	25.00	-3.91	55405.140	2.5	62514.590	2.5
1406.2785	14.00	-3.28	53387.334	1.0	60496.358	2.0
1406.3740	22.00	-3.13	38959.499	4.0	46068.040	4.0
1406.3761	27.00	-3.83	41969.900	.5	49078.430	1.5
1406.3841	25.00	-4.94	55186.170	2.5	62294.660	3.5
1406.4117	28.01	-3.49	129284.500	2.5	136392.850	3.5
1406.4216	24.00	-2.64	50264.480	3.0	57372.780	4.0
1406.4454	22.00	-3.50	35503.400	0.0	42611.580	1.0
1406.4513	28.01	-3.97	113172.960	4.5	120281.110	4.5
1406.4584	14.00	-2.52	56978.256	1.0	64086.370	1.0
1406.5008	26.00	-4.96	44458.960	0.0	51566.860	1.0
1406.5380	7.00	-2.52	107182.788	1.5	114290.500	2.5
1406.5681	28.01	-2.70	98561.220	2.5	105668.780	2.5
1406.5720	23.02	-1.77	154480.500	4.5	161588.040	3.5
1406.5958	28.01	-4.70	128869.890	5.5	135977.310	4.5
1406.6394	15.00	-1.04	68377.200	3.5	75484.400	2.5
1406.6987	15.00	-1.18	68246.500	2.5	75353.400	1.5
1406.7112	26.00	-2.60	44243.668	5.0	51350.505	4.0
1406.7284	29.01	-4.25	115639.020	2.0	122745.770	2.0
1406.7440	22.00	-3.72	33980.639	2.0	41087.310	3.0
1406.7739	18.01	-2.85	199525.150	1.5	206631.670	2.5
1406.7747	26.00	-3.70	44664.061	2.0	51770.577	3.0
1406.8135	6.00	-4.96	78293.490	1.0	85399.810	2.0
1406.8373	30.02	-3.55	292942.600	4.0	300048.800	5.0
1406.9165	30.02	-2.46	295702.600	4.0	302808.400	4.0
1407.0056	18.01	-.62	183090.810	1.5	190196.160	.5
1407.0356	7.00	-3.46	104221.600	1.5	111326.798	2.5
1407.1022	14.00	-2.89	57541.918	1.0	64646.780	2.0
1407.1937	30.02	-3.50	292942.600	5.0	300047.000	6.0
1407.2353	28.01	-4.29	130174.030	1.5	137278.220	1.5
1407.2367	14.00	-4.30	56780.427	1.0	63884.610	1.0
1407.2591	25.00	-2.05	57305.620	3.5	64409.690	3.5
1407.2918	26.00	-4.77	46727.055	2.0	53830.960	3.0
1407.3165	23.00	-3.28	36814.800	1.5	43918.580	2.5
1407.3284	26.00	-3.23	47271.999	1.0	54375.719	2.0
1407.3372	14.00	-1.45	49399.670	1.0	56503.346	2.0
1407.3443	6.00	-4.97	79310.850	2.0	86414.490	3.0
1407.3720	28.01	-4.64	113177.610	3.5	120281.110	4.5
1407.3905	14.00	-1.78	56690.903	2.0	63794.310	2.0
1407.4056	9.00	-2.74	129484.660	1.5	136587.990	1.5
1407.4159	10.00	-2.39	162435.678	1.0	169538.956	2.0
1407.4691	21.00	-3.64	32696.840	2.5	39799.850	3.5
1407.4710	17.02	-4.90	198835.500	.5	205938.500	1.5
1407.5210	26.00	-4.70	47452.702	4.0	54555.450	4.0
1407.5305	25.00	-4.27	50383.270	1.5	57485.970	2.5
1407.5424	25.02	-.34	209091.410	5.5	216194.050	5.5
1407.5470	14.00	-4.34	56690.903	2.0	63793.520	1.0
1407.7287	30.02	-4.13	295702.600	4.0	302804.300	5.0
1407.7287	30.02	-2.39	295702.600	5.0	302804.300	5.0
1407.7584	23.01	-4.69	30267.460	2.0	37369.010	2.0
1407.7743	18.01	-1.06	163299.470	2.5	170400.940	2.5
1407.7902	22.00	-2.52	35757.510	4.0	42858.900	3.0
1407.8278	6.00	-2.16	79310.850	2.0	86412.050	2.0
1407.8873	13.01	-1.16	125719.000	2.0	132819.900	1.0
1407.8873	13.01	.01	125719.000	2.0	132819.900	2.0
1407.9123	22.00	-3.06	18287.560	4.0	25388.334	4.0
1407.9270	28.01	-2.29	121699.020	1.5	128799.720	.5
1407.9270	15.00	-4.17	74301.700	2.5	81402.400	2.5
1407.9270	13.01	.76	125719.000	2.0	132819.700	3.0
1407.9448	18.01	-4.50	188766.150	2.5	195866.760	1.5
1407.9666	29.01	-.12	141542.100	2.0	148642.600	2.0
1407.9845	28.01	-4.53	128855.600	6.5	135956.010	5.5
1407.9864	29.01	-.72	139395.800	4.0	146496.200	3.0
1407.9910	17.00	-4.24	88080.042	2.5	95180.419	3.5
1407.9984	20.00	-3.98	35818.713	3.0	42919.053	2.0
1408.0737	14.00	-3.62	54205.090	2.0	61305.050	3.0
1408.0856	28.00	-2.94	44206.185	3.0	51306.085	3.0
1408.1075	9.00	-2.05	129484.660	1.5	136584.450	2.5
1408.1116	14.00	-1.42	53387.334	1.0	60487.103	1.0
1408.1451	15.01	.07	131941.000	5.0	139040.600	4.0
1408.1987	25.00	-4.63	56189.450	4.5	63288.780	5.5
1408.2258	14.00	-2.01	54205.090	2.0	61304.283	2.0
1408.2318	28.00	-3.17	43654.974	3.0	50754.137	2.0
1408.3494	23.00	-3.51	19023.470	4.5	26122.040	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1408.3574	24.00	-2.10	41409.030	2.0	48507.560	1.0
1408.3653	18.01	-3.30	188766.150	2.5	195864.640	2.5
1408.4048	14.00	-2.81	54205.090	2.0	61303.381	3.0
1408.4863	25.02	-1.62	208819.640	3.5	215917.520	4.5
1408.5041	18.01	-.18	183914.560	.5	191012.350	1.5
1408.5062	27.00	-4.25	45766.630	3.5	52864.410	4.5
1408.5657	28.01	-3.71	113172.960	4.5	120270.440	5.5
1408.6147	14.00	-2.35	57198.027	3.0	64295.260	3.0
1408.6411	30.02	-3.66	257908.200	1.0	265005.300	2.0
1408.6570	15.00	-3.72	65787.380	3.5	72884.400	2.5
1408.6927	27.00	-4.88	39649.160	3.5	46746.000	2.5
1408.7007	13.01	-2.32	132819.900	2.0	139916.700	1.0
1408.7007	13.01	-2.80	132819.900	1.0	139916.700	1.0
1408.7086	24.00	-2.91	50264.480	3.0	57361.240	3.0
1408.7721	26.01	-4.93	93395.600	2.5	100492.040	3.5
1408.8790	22.00	-2.65	41928.528	2.0	49024.430	3.0
1408.9052	27.00	-3.75	41982.660	1.5	49078.430	1.5
1408.9151	23.00	-3.66	36822.860	3.5	43918.580	2.5
1408.9151	21.00	-3.56	32659.210	1.5	39754.930	2.5
1408.9310	27.00	-4.11	48217.320	3.5	55312.960	4.5
1408.9389	18.01	-3.34	202155.860	2.5	209251.460	3.5
1408.9568	29.01	-4.68	109275.900	3.0	116371.410	4.0
1408.9588	8.01	-2.35	248009.100	1.5	255104.600	2.5
1408.9786	29.01	-3.08	138883.000	4.0	145978.400	3.0
1409.0026	7.00	-2.60	104810.330	2.5	111905.609	2.5
1409.0700	28.01	-3.80	129297.910	3.5	136392.850	3.5
1409.0740	28.01	-4.47	113177.610	3.5	120272.530	4.5
1409.0952	10.00	-2.87	162435.678	1.0	169530.491	1.0
1409.0960	10.00	-4.95	162435.678	1.0	169530.487	2.0
1409.0978	17.01	-3.21	121635.000	3.0	128729.800	3.0
1409.1097	29.01	-2.25	128569.600	2.0	135664.340	1.0
1409.2447	14.00	-1.33	56700.250	1.0	63794.310	2.0
1409.2905	28.01	-4.85	130184.390	2.5	137278.220	1.5
1409.2944	23.00	-4.49	19078.150	3.5	26171.960	4.5
1409.3640	28.01	-1.46	130661.320	5.5	137754.780	5.5
1409.3697	18.00	-.33	107054.319	0.0	114147.750	1.0
1409.3918	26.00	-4.79	47590.070	4.0	54683.390	4.0
1409.4017	6.00	-1.71	79318.780	1.0	86412.050	2.0
1409.4017	14.00	-1.68	56700.250	1.0	63793.520	1.0
1409.4454	25.00	-2.91	56490.790	2.5	63583.840	1.5
1409.4951	15.00	-2.49	68760.600	.5	75353.400	1.5
1409.5031	28.01	-2.06	92325.850	3.5	99418.610	3.5
1409.5170	18.01	-3.86	202155.860	2.5	209248.550	2.5
1409.5249	24.00	-3.56	46448.600	1.0	53541.250	2.0
1409.5448	28.01	-1.05	130661.320	5.5	137753.870	4.5
1409.5844	26.00	-4.16	44511.795	2.0	51604.146	3.0
1409.6183	6.00	-3.13	78307.630	2.0	85399.810	2.0
1409.6342	29.01	-.53	139331.300	3.0	146423.400	4.0
1409.8108	7.00	-2.84	107182.788	1.5	114274.000	2.5
1409.8131	28.01	-4.56	113177.610	3.5	120268.810	3.5
1409.8370	25.01	-3.55	72648.800	4.0	79739.880	5.0
1409.8609	28.01	-2.52	113225.060	.5	120316.020	.5
1409.8629	26.00	-2.86	51619.140	3.0	58710.090	3.0
1409.9120	26.00	-1.92	41130.620	1.0	48221.323	1.0
1409.9180	7.00	-1.85	106980.480	.5	114071.153	1.5
1409.9577	26.00	-4.03	44664.061	2.0	51754.534	1.0
1410.0418	27.00	-4.68	45766.630	3.5	52856.680	3.5
1410.1015	19.00	-2.15	27450.690	.5	34540.440	1.5
1410.1413	7.00	-1.73	97770.150	.5	104859.700	1.5
1410.1433	19.00	-2.45	27450.690	.5	34540.230	.5
1410.1771	28.00	-1.95	49185.146	2.0	56274.516	2.0
1410.2308	29.01	.38	141542.100	2.0	148631.200	3.0
1410.3263	28.01	-4.96	129419.580	4.5	136508.200	5.5
1410.3780	28.01	-4.77	120903.200	3.5	127991.560	3.5
1410.4576	24.00	-4.56	44088.920	1.0	51176.880	0.0
1410.4596	18.01	-4.34	148620.070	1.5	155708.020	.5
1410.4795	9.00	-3.25	130374.860	1.5	137462.710	1.5
1410.6546	29.01	-4.22	138898.430	1.0	145985.400	2.0
1410.6686	6.00	-1.76	78116.740	1.0	85203.640	2.0
1410.7502	24.00	-1.68	41575.100	3.0	48661.590	3.0
1410.7778	13.00	-1.51	38929.405	1.5	46015.756	2.5
1410.7820	28.01	-3.96	115000.250	3.5	122086.580	3.5
1410.8139	24.00	-3.90	50264.480	3.0	57350.650	2.0
1410.8507	26.00	-3.45	46744.975	3.0	53830.960	3.0
1410.9214	15.01	-4.81	103166.370	1.0	110252.000	1.0
1410.9911	14.01	-1.66	119311.450	3.5	126396.730	3.5
1410.9911	14.01	-.12	119311.450	3.5	126396.730	4.5
1411.0210	14.01	-.23	119311.600	2.5	126396.730	3.5
1411.0966	8.01	-.05	238731.540	1.5	245816.290	1.5
1411.0971	26.00	-3.19	44285.436	2.0	51370.184	2.0
1411.1010	14.00	-2.58	57798.072	2.0	64882.800	2.0
1411.1584	22.00	-3.29	39640.980	3.0	46725.420	3.0
1411.1664	29.01	-.24	139331.300	3.0	146415.700	2.0
1411.1843	21.00	-3.70	32637.400	.5	39721.710	1.5
1411.1863	29.01	-2.91	118163.500	2.0	125247.800	2.0
1411.2162	27.00	-4.45	45688.150	2.5	52772.300	2.5
1411.2520	6.00	-1.88	78104.980	0.0	85188.950	1.0
1411.2819	22.00	-3.11	35527.760	1.0	42611.580	1.0
1411.3016	14.00	-.47	49933.775	3.0	57017.496	2.0
1411.3074	20.00	-1.44	41679.008	1.0	48762.700	1.0
1411.3074	20.00	-.79	41679.008	1.0	48762.700	2.0
1411.3178	20.00	-.75	35835.413	2.0	42919.053	2.0
1411.3377	18.01	-2.92	204585.640	2.5	211669.180	2.5
1411.3516	24.00	-2.97	42238.040	2.0	49321.510	2.0
1411.3750	14.00	-4.20	56780.427	1.0	63863.780	2.0
1411.4174	27.00	-4.46	47393.930	2.5	54477.070	3.5
1411.5096	14.00	-1.89	56690.903	2.0	63773.580	2.0
1411.5674	14.00	-1.45	56690.903	2.0	63773.290	3.0
1411.6267	18.00	-3.06	119212.930	3.0	126295.020	3.0
1411.6506	18.00	-3.17	119212.930	3.0	126294.900	3.0
1411.6506	18.00	-1.75	119212.930	3.0	126294.900	4.0
1411.6811	22.00	-3.15	18145.400	2.0	25227.217	3.0
1411.6855	13.00	-1.35	38933.961	2.5	46015.756	3.5
1411.6855	13.00	-2.65	38933.961	2.5	46015.756	2.5
1411.7184	28.01	-.40	130661.320	5.5	137742.950	5.5
1411.7323	6.00	-2.52	78318.250	3.0	85399.810	2.0
1411.8079	28.00	-3.17	44262.619	2.0	51343.800	2.0
1411.8459	28.01	-4.67	130197.230	1.5	137278.220	1.5
1411.9000	26.00	-1.83	44022.518	4.0	51103.237	5.0
1411.9197	27.00	-4.41	44480.140	2.5	51560.760	2.5
1411.9379	7.00	-4.08	104825.080	2.5	111905.609	2.5
1411.9516	18.01	-3.18	151087.250	2.5	158167.710	1.5
1411.9696	29.01	-1.94	115665.400	1.0	122745.770	2.0
1411.9815	26.00	-3.44	47177.210	1.0	54257.520	2.0
1411.9915	7.00	-2.48	97805.810	1.5	104886.070	.5
1411.9929	14.00	-1.84	57583.657	4.0	64663.910	4.0
1412.0394	26.00	-2.63	51630.070	2.0	58710.090	3.0
1412.2446	17.00	-2.40	84485.309	1.5	91564.300	.5
1412.3973	26.00	-3.91	46888.494	2.0	53966.720	2.0
1412.4364	28.00	-2.06	50689.490	2.0	57767.520	1.0
1412.4703	18.01	-1.13	204585.640	2.5	211663.500	3.5
1412.4823	30.02	-2.90	258178.300	4.0	265256.100	3.0
1412.4875	28.00	-2.05	49185.146	2.0	56262.920	3.0
1412.5720	7.01	-.06	203162.480	0.0	210239.830	1.0
1412.5825	26.00	-4.72	47606.092	5.0	54683.390	4.0
1412.5960	28.01	-2.67	112719.750	3.5	119796.980	2.5
1412.6000	28.01	-4.80	113172.960	4.5	120250.170	3.5
1412.6399	7.01	.20	203189.030	1.0	210266.040	2.0
1412.7458	9.00	-1.79	130374.860	1.5	137451.340	2.5
1412.7497	18.01	-4.28	184093.060	.5	191169.520	1.5
1412.7993	7.00	-2.49	107182.788	1.5	114259.000	1.5
1412.8348	26.00	-4.34	43922.652	3.0	50998.686	2.0
1412.8609	26.00	-4.42	44664.061	2.0	51739.964	2.0
1412.9354	27.00	-3.88	45688.150	2.5	52763.680	3.5
1412.9753	19.00	-1.52	27397.100	2.5	34472.430	1.5
1412.9774	24.00	-3.32	35572.940	2.0	42648.260	3.0
1413.0171	7.00	-2.35	106996.032	1.5	114071.153	1.5
1413.0213	9.00	-2.82	130374.860	1.5	137449.960	1.5
1413.0768	14.00	-2.24	57541.918	1.0	64616.740	2.0
1413.1831	19.00	-2.47	27398.140	1.5	34472.430	1.5
1413.1851	28.01	-4.46	129474.270	3.5	136548.550	2.5
1413.1971	21.00	-1.91	30706.610	1.5	37780.830	1.5
1413.1973	26.00	-4.78	48304.623	2.0	55378.842	2.0
1413.2331	19.00	-1.77	27398.140	1.5	34472.180	.5
1413.2610	28.01	.09	130661.320	5.5	137735.220	6.5
1413.2810	25.00	-4.53	50012.530	2.5	57086.330	2.5
1413.3589	22.00	-4.00	41255.400	4.0	48328.810	4.0
1413.3749	14.00	-1.62	56700.250	1.0	63773.580	2.0
1413.3969	9.00	-3.48	129381.860	2.5	136455.080	1.5
1413.4209	26.00	-4.48	50901.060	2.0	57974.160	2.0
1413.4688	28.01	-3.58	129474.270	3.5	136547.130	3.5
1413.5048	25.00	-1.33	47387.620	3.5	54460.300	2.5
1413.5288	28.01	-4.86	113177.610	3.5	120250.170	3.5
1413.5947	28.01	-3.16	129474.270	3.5	136546.500	4.5
1413.5988	6.00	-1.98	78116.740	1.0	85188.950	1.0
1413.7812	14.00	-.85	56690.903	2.0	63762.200	3.0
1413.8086	22.00	-2.75	35652.950	3.0	42724.110	2.0
1413.8122	17.00	-3.62	94732.300	3.5	101803.442	2.5
1413.8446	24.00	-4.49	29824.750	3.0	36895.730	3.0
1413.8606	6.00	-2.03	80562.850	1.0	87633.750	2.0
1414.0006	13.01	-2.54	125706.200	1.0	132776.400	0.0
1414.1146	9.00	-2.40	129381.860	2.5	136451.490	2.5
1414.1166	16.01	-4.36	121529.490	2.5	128599.110	3.5
1414.1226	26.00	-3.34	50628.000	3.0	57697.590	4.0
1414.1744	14.00	-4.60	57328.789	1.0	64398.120	2.0
1414.2626	24.00	-4.55	47917.930	2.0	54986.820	3.0
1414.2659	14.00	-2.30	57017.496	2.0	64086.370	1.0
1414.2766	28.01	-2.39	129479.730	1.5	136548.550	2.5
1414.3267	18.01	-2.84	160239.350	1.5	167307.920	.5
1414.3429	26.00	-3.28	47092.693	3.0	54161.182	3.0
1414.3445	7.00	-3.66	104144.790	.5	111213.271	1.5
1414.4047	9.00	-1.34	130374.860	1.5	137443.040	2.5
1414.4387	28.01	-3.76	129474.270	3.5	136542.280	3.5
1414.5608	24.00	-2.63	42254.110	3.0	49321.510	2.0
1414.6209	29.01	-4.82	118163.500	2.0	125230.600	3.0
1414.8531	27.00	-4.90	45904.680	1.5	52970.620	2.5
1414.9012	27.00	-4.64	48217.320	3.5	55283.020	2.5
1415.0534	28.01	-4.11	126857.970	5.5	133922.910	4.5
1415.1252	17.00	-4.77	88080.042	2.5	95144.623	2.5
1415.1615	7.01	-1.89	202861.360	3.0	209925.760	2.0
1415.1635	6.00	-3.26	80782.510	1.0	87846.900	0.0
1415.1990	14.00	-3.14	56780.427	1.0	63844.640	0.0
1415.2096	22.01	-2.83	24961.340	1.5	32025.500	2.5
1415.2176	23.01	-2.69	66158.600	4.0	73222.720	4.0
1415.2328	7.00	-4.10	104221.600	1.5	111285.644	1.5
1415.2416	13.01	-1.67	142849.200	3.0	149913.200	2.0
1415.2416	13.01	-3.10	142849.200	3.0	149913.200	3.0
1415.2416	13.01	-4.53	142849.200	3.0	149913.200	4.0
1415.2416	13.01	-2.10	142849.200	4.0	149913.200	3.0
1415.2416	13.01	-1.13	142849.200	4.0	149913.200	3.0
1415.2416	13.01	-2.97	142849.200	4.0	149913.200	4.0
1415.2416	13.01	-3.11	142849.200	4.0	149913.200	4.0
1415.2416	13.01	-1.44	142849.200	5.0	149913.200	4.0
1415.2537	27.00	-3.03	46872.740	3.5	53936.680	2.5
1415.2537	19.00	-1.76	24701.430	.5	31765.370	.5
1415.2617	21.00	-3.71	32637.400	.5	39701.300	.5
1415.3238	24.00	-4.54	35501.260	3.0	42564.850	4.0
1415.3559	28.01	-1.81	100078.780	1.5	107142.210	1.5
1415.3919	55.00	-1.16	21765.650	0.0	28830.831	0.0
1415.4821	29.01	-2.12	138883.000	4.0	145945.800	5.0
1415.5202	23.01	-3.88	30306.400	3.0	37369.010	2.0
1415.5422	21.00	-3.50	32659.210	1.5	39721.710	1.5
1415.5964	22.00	-5.22	11531.760	2.0	18593.990	3.0
1415.6324	25.00	-2.32	57621.900	1.5	64683.950	1.5
1415.6385	28.01	.12	122441.220	4.5	129503.240	4.5
1415.7026	17.00	-4.37	94663.670	1.5	101725.370	1.5
1415.7507	27.00	-4.20	49484.050	3.5	56545.510	2.5
1415.7628	6.00	-3.11	80782.510	1.0	87843.910	1.0
1415.8028	28.01	-2.49	99559.330	2.5	106620.530	3.5
1415.8850	9.02	-4.65	380307.130	1.5	387367.920	2.5
1415.9392	26.00	-3.33	47197.000	2.0	54257.520	2.0
1416.0034	28.01	-3.56	115209.850	3.5	122270.050	3.5
1416.0154	14.00	-1.28	56733.380	0.0	63793.520	1.0
1416.1378	6.00	-.95	78340.280	1.0	85399.810	2.0
1416.2094	26.00	-4.70	53747.547	3.0	60806.720	3.0
1416.3237	16.00	-1.63	74267.597	2.0	81326.200	1.0
1416.3715	26.00	-4.07	44511.795	2.0	51570.160	3.0
1416.4267	21.00	-3.17	32696.840	2.5	39754.930	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1416.5110	27.00	-3.86	39649.160	3.5	46706.830	3.5
1416.5351	16.00	-1.85	74268.650	1.0	81326.200	1.0
1416.5913	29.01	-3.27	138898.430	1.0	145955.700	1.0
1416.5913	18.01	-1.72	204515.000	.5	211572.270	1.5
1416.5952	15.01	-4.05	105550.450	2.0	112607.700	2.0
1416.6505	26.00	-3.57	43922.652	3.0	50979.627	4.0
1416.7458	8.02	-.14	358667.400	1.0	365723.900	1.0
1416.8101	28.00	-4.27	48817.600	1.0	55873.780	2.0
1416.8282	25.02	-1.21	208819.640	3.5	215875.730	2.5
1416.8322	22.01	-4.44	62271.250	2.5	69327.320	1.5
1416.8505	14.00	-3.24	57295.881	0.0	64351.860	1.0
1416.8683	26.00	-2.97	40534.180	3.0	47590.070	4.0
1416.8844	28.01	-3.86	114869.350	1.5	121925.160	.5
1416.9367	6.00	-1.35	78148.090	2.0	85203.640	2.0
1416.9446	25.00	-2.93	56490.790	2.5	63546.300	3.5
1416.9469	16.00	-2.33	74270.701	0.0	81326.200	1.0
1416.9615	22.00	-4.70	11639.804	3.0	18695.230	4.0
1416.9627	28.01	-2.48	115120.000	2.5	122175.420	2.5
1416.9748	27.00	-4.74	48334.370	1.5	55389.730	1.5
1417.0485	22.00	-3.13	27480.047	3.0	34535.040	2.0
1417.0872	15.01	-.19	131689.500	4.0	138744.300	3.0
1417.2267	28.00	-3.14	50689.490	2.0	57743.596	3.0
1417.2363	7.00	-3.58	104144.790	.5	111198.848	.5
1417.2373	14.00	-4.52	57198.027	3.0	64252.080	2.0
1417.2701	7.00	-2.04	97805.810	1.5	104859.700	1.5
1417.3123	20.02	-1.47	363118.750	3.0	370172.430	4.0
1417.3565	23.00	-2.57	14910.040	3.5	21963.500	3.5
1417.4105	17.00	-1.61	84485.309	1.5	91538.500	1.5
1417.4227	18.01	-2.48	202544.320	2.5	209597.450	1.5
1417.4467	20.00	-.47	37751.867	2.0	44804.878	3.0
1417.4509	9.00	-3.61	129381.860	2.5	136434.850	2.5
1417.4708	18.00	-1.96	111818.090	1.0	118870.981	0.0
1417.4750	6.00	-1.96	78116.740	1.0	85169.610	0.0
1417.4849	26.00	-3.70	44551.325	3.0	51604.146	3.0
1417.4853	26.00	-3.37	44166.240	3.0	51219.059	3.0
1417.4931	28.01	-3.66	110021.920	4.5	117074.700	3.5
1417.6197	22.00	-3.16	39785.940	4.0	46838.090	4.0
1417.6398	28.01	-4.68	92792.080	3.5	99844.130	3.5
1417.7444	28.01	-2.36	129479.730	1.5	136531.260	1.5
1417.7834	28.00	-2.00	43654.974	3.0	50706.310	4.0
1417.8007	21.00	-6.57	11520.150	1.5	18571.400	2.5
1417.8172	22.00	-4.71	38670.710	4.0	45721.878	4.0
1417.8912	7.01	-.20	203189.030	1.0	210239.830	1.0
1417.9113	28.01	-4.97	130227.520	2.5	137278.220	1.5
1418.0118	22.00	-3.66	34535.040	2.0	41585.240	3.0
1418.0219	28.01	-4.11	129474.270	3.5	136524.420	4.5
1418.0461	6.00	-3.62	80782.510	1.0	87832.540	2.0
1418.0529	7.00	-3.65	104221.600	1.5	111271.596	.5
1418.1223	26.00	-3.27	47017.170	3.0	54066.821	2.0
1418.1325	10.01	-2.25	283322.350	1.5	290371.950	2.5
1418.1486	18.01	-2.17	202149.110	2.5	209198.630	2.5
1418.1703	7.00	-3.70	107182.788	1.5	114232.200	1.5
1418.1728	26.00	-3.74	47017.170	3.0	54066.570	4.0
1418.2210	23.00	-4.83	15264.830	5.5	22313.990	5.5
1418.2269	14.00	-.78	54257.582	3.0	61306.713	4.0
1418.3921	21.00	-2.87	32751.540	3.5	39799.850	3.5
1418.4150	26.00	-4.90	46720.824	4.0	53769.020	4.0
1418.4456	22.00	-2.06	28952.100	4.0	36000.144	4.0
1418.5229	6.00	-2.67	80782.510	1.0	87830.170	1.0
1418.5615	14.00	-2.55	54257.582	3.0	61305.050	3.0
1418.6014	9.00	-2.27	129381.860	2.5	136429.130	3.5
1418.6155	29.01	-3.86	146402.900	5.0	153450.100	5.0
1418.7160	14.00	-2.67	54257.582	3.0	61304.283	2.0
1418.7262	26.00	-3.12	44415.057	4.0	51461.707	4.0
1418.8068	24.00	-2.38	47772.300	1.0	54818.550	2.0
1418.8220	7.00	-2.70	106980.480	.5	114026.654	.5
1418.8430	29.01	-2.49	110084.290	1.0	117130.360	2.0
1418.8819	22.00	-3.47	18061.540	1.0	25107.417	2.0
1418.8975	14.00	-1.54	54257.582	3.0	61303.381	3.0
1418.9074	24.00	-4.29	35862.820	4.0	42908.570	4.0
1418.9095	28.01	-3.06	105861.190	2.5	112906.930	1.5
1418.9578	10.01	-1.87	276276.850	1.5	283322.350	1.5
1418.9874	14.00	-2.49	57198.027	3.0	64243.380	2.0
1419.0182	19.00	-1.46	24720.170	1.5	31765.370	.5
1419.0263	28.01	-4.77	92373.450	2.5	99418.610	3.5
1419.0625	27.00	-4.76	45111.480	4.5	52156.460	4.5
1419.0706	9.00	-1.14	129381.860	2.5	136426.800	1.5
1419.1109	28.01	-4.70	131796.260	2.5	138841.000	3.5
1419.2257	18.00	-3.05	114147.750	1.0	121191.920	2.0
1419.2821	23.00	-4.68	19078.150	3.5	26122.040	3.5
1419.3043	15.00	-1.81	65450.020	1.5	72493.800	1.5
1419.3325	28.01	-3.54	108548.610	1.5	115592.250	1.5
1419.3387	7.00	-3.77	103667.130	1.5	110710.739	2.5
1419.4413	17.01	-1.42	151134.000	1.0	158177.100	1.0
1419.4843	17.00	-1.88	95144.623	2.5	102187.510	2.5
1419.5018	30.02	-2.68	257962.500	2.0	265005.300	2.0
1419.5157	7.00	-1.17	104810.330	2.5	111853.061	1.5
1419.5220	7.01	.53	203258.980	2.0	210301.680	3.0
1419.5341	6.00	-2.67	80801.270	2.0	87843.910	1.0
1419.6005	24.00	-1.38	41782.190	4.0	48824.500	4.0
1419.6449	21.00	-3.70	32659.210	1.5	39701.300	.5
1419.6469	14.00	-1.34	50499.838	2.0	57541.918	1.0
1419.7961	22.00	-3.60	18061.540	1.0	25102.880	2.0
1419.8147	17.00	-2.07	84132.262	2.5	91173.510	1.5
1419.8589	17.00	-3.48	88272.720	.5	95313.749	1.5
1419.8665	26.00	-2.72	44664.061	2.0	51705.052	2.0
1419.8929	6.00	-1.95	78148.090	2.0	85188.950	1.0
1420.0260	29.01	-2.03	138981.300	2.0	146021.500	3.0
1420.0555	14.00	-3.43	56978.256	1.0	64018.310	1.0
1420.0855	28.00	-2.87	50789.500	4.0	57829.405	5.0
1420.1850	26.00	-.02	43763.938	1.0	50803.350	2.0
1420.1854	28.01	-4.29	106369.300	1.5	113408.710	1.5
1420.2949	22.00	-4.31	41170.003	3.0	48208.870	3.0
1420.4426	10.00	-2.24	164285.882	0.0	171324.017	1.0
1420.4497	17.01	-4.58	154616.700	0.0	161654.800	1.0
1420.4679	28.01	-4.72	106369.300	1.5	113407.310	2.5
1420.5304	26.00	-4.94	53769.020	4.0	60806.720	3.0
1420.5507	15.01	-2.52	132372.600	1.0	139410.200	2.0
1420.5607	24.00	-4.71	35501.260	3.0	42538.810	3.0
1420.5769	28.01	-2.97	129479.730	1.5	136517.200	.5
1420.5923	7.00	-1.89	107253.106	2.5	114290.500	2.5
1420.6717	17.01	-4.21	154617.800	1.0	161654.800	1.0
1420.6919	28.01	-3.44	115108.090	2.5	122144.990	2.5
1420.7190	26.00	-3.79	46888.494	2.0	53925.260	1.0
1420.7626	29.01	-3.74	118532.150	2.0	125568.700	1.0
1420.8212	8.01	-.86	238731.540	1.5	245767.800	.5
1420.9040	20.02	-1.33	336749.110	1.0	343784.960	1.0
1420.9343	30.02	-3.50	258277.700	3.0	265313.400	2.0
1420.9361	14.00	-4.00	57328.789	1.0	64364.480	2.0
1420.9843	26.00	-3.81	44183.607	2.0	51219.059	3.0
1421.0352	17.01	-4.31	154619.600	2.0	161654.800	1.0
1421.0857	26.00	-2.59	43499.485	4.0	50534.435	3.0
1421.1023	56.01	.03	42355.182	0.0	49391.973	0.0
1421.1564	15.01	-2.04	125129.700	3.0	132164.300	2.0
1421.1888	22.00	-3.12	35577.140	2.0	42611.580	1.0
1421.2090	28.01	-4.36	94705.930	3.5	101740.270	3.5
1421.2607	7.00	-1.82	107037.069	2.5	114071.153	1.5
1421.3262	23.01	-4.26	30318.630	4.0	37352.390	5.0
1421.3504	27.00	-4.08	47225.110	3.5	54258.750	2.5
1421.4697	28.01	-1.72	122441.220	4.5	129474.270	3.5
1421.4737	25.00	-3.11	56490.790	2.5	63523.820	2.5
1421.5020	17.00	-.11	84648.100	2.5	91680.990	1.5
1421.5384	27.00	-4.53	47393.930	2.5	54426.640	1.5
1421.5525	17.00	-1.83	91660.580	2.5	98693.220	2.5
1421.5909	24.00	-2.54	47786.100	2.0	54818.550	2.0
1421.5944	17.00	-.63	91660.580	2.5	98693.013	3.5
1421.6031	24.00	-4.55	47772.300	1.0	54804.690	1.0
1421.6415	27.00	-3.91	46671.940	2.5	53704.140	2.5
1421.7204	17.00	-3.39	94827.150	2.5	101858.960	2.5
1421.7223	28.01	-2.40	98467.250	3.5	105499.050	3.5
1421.7830	13.01	-1.56	139242.900	3.0	146274.400	2.0
1421.8295	6.00	-3.24	80801.270	2.0	87832.540	2.0
1421.9606	7.00	-2.00	106996.032	1.5	114026.654	.5
1422.0479	27.00	-3.41	46671.940	2.5	53702.130	3.5
1422.1355	14.00	-1.21	47284.061	1.0	54313.818	1.0
1422.2158	28.01	-3.08	122812.970	3.5	129842.330	2.5
1422.2745	29.01	-4.08	138898.430	1.0	145927.500	2.0
1422.2887	15.00	-4.60	74271.800	1.5	81300.800	1.5
1422.3089	6.00	-3.94	80801.270	2.0	87830.170	1.0
1422.3150	10.01	-1.81	301948.000	1.5	308976.870	.5
1422.3797	24.00	-4.69	42292.960	1.0	49321.510	2.0
1422.3797	27.00	-3.73	45688.150	2.5	52716.700	3.5
1422.4526	14.00	-1.38	40991.884	1.0	48020.074	1.0
1422.4729	18.01	-.01	183914.560	.5	190942.650	.5
1422.4949	7.00	-3.96	104825.080	2.5	111853.061	1.5
1422.5720	29.01	-.76	139395.800	4.0	146423.400	4.0
1422.5922	17.01	-2.75	121635.000	3.0	128662.500	2.0
1422.7036	23.00	-4.67	13801.530	1.5	20828.480	2.5
1422.7279	23.00	-2.40	19145.130	5.5	26171.960	4.5
1422.7496	26.00	-4.43	46720.824	4.0	53747.547	3.0
1422.7542	29.01	-2.30	146423.400	4.0	153450.100	5.0
1422.7589	17.00	-3.38	94973.683	.5	102000.360	1.5
1422.8130	18.01	-3.26	183985.940	1.5	191012.350	1.5
1422.8530	7.00	-3.34	107182.788	1.5	114209.000	.5
1422.8678	22.00	-3.25	37555.021	3.0	44581.160	2.0
1422.8798	26.00	-3.84	44166.240	3.0	51192.320	4.0
1422.9081	28.01	-4.97	114836.630	3.5	121862.570	3.5
1422.9162	15.01	-.53	130801.700	1.0	137827.600	1.0
1422.9871	28.01	-3.75	94729.250	2.5	101754.800	2.5
1423.0734	26.00	-2.73	47136.058	2.0	54161.182	3.0
1423.1006	28.01	-3.00	115120.000	2.5	122144.990	2.5
1423.1249	21.00	-3.56	32696.840	2.5	39721.710	1.5
1423.1289	23.01	-2.84	44098.460	3.0	51123.310	2.0
1423.1390	25.00	-3.55	37789.930	2.5	44814.730	1.5
1423.2134	26.00	-4.90	44183.607	2.0	51208.040	1.0
1423.2425	7.00	-1.06	104881.320	3.5	111905.609	2.5
1423.2920	26.00	-3.55	46744.975	3.0	53769.020	4.0
1423.3295	18.01	-.93	163506.450	3.5	170530.310	3.5
1423.4894	14.00	-4.17	57328.789	1.0	64351.860	1.0
1423.5301	23.01	-4.21	65885.300	2.0	72908.170	3.0
1423.5788	27.00	-2.56	46671.940	2.5	53694.570	3.5
1423.5798	28.00	-3.32	43654.974	3.0	50677.599	3.0
1423.6650	26.00	.38	43434.585	3.0	50456.790	3.0
1423.7051	17.00	-2.06	94732.300	3.5	101754.307	3.5
1423.7207	25.00	-3.95	44696.290	2.5	51718.220	1.5
1423.7280	7.00	-1.10	107253.106	2.5	114275.000	3.5
1423.7592	28.01	-2.35	108763.320	.5	115785.060	1.5
1423.7592	19.00	-2.21	27450.690	.5	34472.430	1.5
1423.8099	19.00	-2.51	27450.690	.5	34472.180	.5
1423.8403	25.00	-2.92	55405.140	2.5	62426.480	3.5
1423.9105	28.00	-3.16	50789.500	4.0	57810.494	4.0
1423.9235	23.00	-4.73	35012.910	.5	42033.840	1.5
1423.9308	7.00	-2.20	107253.106	2.5	114274.000	2.5
1423.9438	18.01	-3.42	204585.640	2.5	211606.470	3.5
1424.0290	27.00	-2.10	44183.340	4.5	51203.750	5.5
1424.0375	7.00	-3.12	104144.790	.5	111165.158	1.5
1424.2095	15.00	.14	65787.380	3.5	72806.900	2.5
1424.2603	7.00	-1.78	97805.810	1.5	104825.080	2.5
1424.3739	27.00	-2.43	46685.430	1.5	53704.140	2.5
1424.3832	26.00	-3.34	46720.824	4.0	53739.488	5.0
1424.3885	26.00	-1.88	41018.029	2.0	48036.667	2.0
1424.3982	24.00	-4.09	47786.100	2.0	54804.690	1.0
1424.4165	13.01	-.16	142607.000	2.0	149625.500	3.0
1424.4530	25.00	-3.15	56356.210	3.5	63374.530	4.5
1424.4790	26.00	-3.84	53739.488	5.0	60757.680	4.0
1424.4956	26.00	-3.29	51691.980	3.0	58710.090	3.0
1424.6398	23.00	-4.87	15103.770	4.5	22121.170	4.5
1424.6459	28.01	-4.28	108548.610	1.5	115565.980	2.5
1424.6804	29.01	-.11	141542.100	2.0	148559.300	2.0
1424.7006	17.01	-4.41	154617.800	1.0	161634.900	2.0
1424.7209	13.01	-1.22	142849.200	4.0	149866.200	3.0
1424.7209	13.01	-2.06	142849.200	4.0	149866.200	3.0
1424.7209	13.01	-2.98	142849.200	3.0	149866.200	3.0
1424.7346	20.00	-3.07	35730.454	2.0	42747.387	3.0
1424.7657	25.00	-3.05	57621.900	1.5	64638.680	.5
1424.8002	24.00	-4.21	47788.080	0.0	54804.690	1.0
1424.8408	24.00	-3.34	46524.840	2.0	53541.250	2.0
1424.8753	27.00	-3.32	44183.340	4.5	51199.580	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1424.9251	18.00	-1.06	107131.755	1.0	114147.750	1.0
1424.9423	25.00	-4.16	56567.930	1.5	63583.840	1.5
1424.9708	24.00	-3.60	39158.630	4.0	46174.400	3.0
1425.0419	18.01	-.64	183090.810	1.5	190106.230	1.5
1425.0662	17.01	-3.83	154619.600	2.0	161634.900	2.0
1425.0821	26.00	-4.78	53739.488	5.0	60754.710	4.0
1425.1237	26.00	-.39	44676.963	4.0	51691.980	3.0
1425.1841	18.01	-1.25	202253.590	1.5	209268.310	1.5
1425.1881	28.01	-4.28	130197.230	1.5	137211.930	.5
1425.2064	27.00	-4.91	45688.150	2.5	52702.760	1.5
1425.2444	20.00	-.62	37748.197	1.0	44762.620	2.0
1425.2755	24.00	-2.27	27176.220	1.0	34190.490	2.0
1425.2771	20.00	-1.50	35730.454	2.0	42744.716	2.0
1425.2897	23.00	-1.33	14949.300	4.5	21963.500	3.5
1425.3507	21.00	-4.53	18000.250	2.5	25014.150	2.5
1425.3791	21.00	-5.34	11557.640	2.5	18571.400	2.5
1425.4117	29.01	-3.55	129759.600	1.0	136773.200	1.0
1425.4238	18.00	-1.11	114641.040	2.0	121654.580	2.0
1425.4340	9.01	-2.01	270508.290	2.0	277521.780	2.0
1425.4360	23.00	-3.98	31228.980	2.5	38242.460	3.5
1425.4767	18.00	.30	114641.040	2.0	121654.320	3.0
1425.4905	7.00	-1.52	107182.788	1.5	114196.000	2.5
1425.5417	25.02	-1.15	208650.540	3.5	215663.500	3.5
1425.5799	14.00	-3.93	54185.264	1.0	61198.036	0.0
1425.6178	26.00	-4.00	27543.000	1.0	34555.586	0.0
1425.6255	20.00	-.81	35730.454	2.0	42743.002	1.0
1425.6353	15.01	-2.42	132397.700	2.0	139410.200	2.0
1425.6393	17.00	-.79	84648.100	2.5	91660.580	2.5
1425.6527	14.00	-3.58	56978.256	1.0	63990.670	2.0
1425.6637	18.00	-1.76	114641.040	2.0	121653.400	3.0
1425.6637	25.00	-4.77	35041.370	3.5	42053.730	2.5
1425.6759	17.01	-3.60	154622.600	3.0	161634.900	2.0
1425.6779	24.00	-4.88	47974.530	3.0	54986.820	3.0
1425.7186	9.01	-2.25	270508.290	2.0	277520.380	1.0
1425.7247	28.01	-2.98	98969.440	5.5	105981.500	4.5
1425.8914	12.01	-1.89	103196.750	.5	110207.990	1.5
1425.8915	27.00	-4.61	45904.680	1.5	52915.920	.5
1425.9403	19.02	-3.11	237512.000	2.5	244523.000	2.5
1425.9459	20.00	-.86	37751.867	2.0	44762.839	3.0
1425.9905	20.00	-1.75	37751.867	2.0	44762.620	2.0
1426.0013	13.01	-1.53	139286.800	2.0	146297.500	1.0
1426.0176	26.00	-4.95	50803.350	2.0	57813.970	3.0
1426.1006	7.00	-2.24	107182.788	1.5	114193.000	1.5
1426.1660	8.01	-.13	238892.960	2.5	245902.850	2.5
1426.2008	28.00	-3.18	42767.900	3.0	49777.619	3.0
1426.2433	9.01	-3.23	270508.290	2.0	277517.800	3.0
1426.2515	22.00	-1.97	34327.960	1.0	41337.430	2.0
1426.2922	27.00	-4.18	48546.070	1.5	55555.340	2.5
1426.3634	24.00	-4.40	44050.870	4.0	51059.790	4.0
1426.3797	27.00	-4.11	45766.630	3.5	52775.470	4.5
1426.3826	26.00	-4.69	44285.436	2.0	51294.262	3.0
1426.4021	22.00	-4.90	34078.580	3.0	41087.310	3.0
1426.4845	26.00	-4.06	47005.455	5.0	54013.780	5.0
1426.7298	6.00	-2.50	80782.510	1.0	87789.630	1.0
1426.7339	29.01	.54	139395.800	4.0	146402.900	5.0
1426.7358	17.00	-.84	95180.419	3.5	102187.510	2.5
1426.7421	7.01	-.13	203258.980	2.0	210266.040	2.0
1426.7889	12.01	-2.19	103196.750	.5	110203.580	.5
1426.9151	27.00	-4.24	48443.760	2.5	55449.970	2.5
1426.9795	7.00	-2.83	107253.106	2.5	114259.000	1.5
1427.0253	20.00	-.29	37757.449	3.0	44763.118	4.0
1427.0272	6.00	-2.64	80801.270	2.0	87806.930	3.0
1427.0577	27.00	-4.22	48571.770	.5	55577.280	1.5
1427.0822	20.00	-1.35	37757.449	3.0	44762.839	3.0
1427.1268	20.00	-2.90	37757.449	3.0	44762.620	2.0
1427.1514	27.00	-4.68	44555.710	1.5	51560.760	2.5
1427.2493	6.00	-1.99	78199.070	2.0	85203.640	2.0
1427.2595	7.00	-1.31	97805.810	1.5	104810.330	2.5
1427.3348	24.00	-2.99	47814.400	3.0	54818.550	2.0
1427.3389	15.00	-.52	65373.470	.5	72377.600	.5
1427.3450	29.01	-2.52	138981.300	2.0	145985.400	2.0
1427.4612	24.00	-2.76	46637.210	3.0	53640.740	3.0
1427.4816	28.01	-2.05	100078.780	1.5	107082.210	2.5
1427.4897	21.00	-3.65	32751.540	3.5	39754.930	2.5
1427.6344	25.02	.66	209530.380	7.5	216533.060	6.5
1427.6365	29.01	-4.09	138898.430	1.0	145901.100	1.0
1427.6565	26.00	-4.16	46744.975	3.0	53747.547	3.0
1427.6854	27.00	-4.26	45111.480	4.5	52113.910	5.5
1427.7607	26.00	-3.73	48122.913	3.0	55124.974	3.0
1427.8746	26.00	-9.54	12560.933	3.0	19562.435	4.0
1428.0149	14.00	-4.25	57017.496	2.0	64018.310	1.0
1428.0851	18.01	-2.13	204585.640	2.5	211586.110	2.5
1428.1584	28.00	-2.43	50789.500	4.0	57789.611	4.0
1428.1586	24.00	-4.19	47974.530	3.0	54974.640	2.0
1428.2402	24.00	-2.51	46783.060	4.0	53782.770	4.0
1428.2973	27.00	-4.53	45971.190	3.5	52970.620	2.5
1428.3419	7.00	-1.53	107182.788	1.5	114182.000	2.5
1428.4306	7.00	-3.24	104144.790	.5	111143.567	.5
1428.4504	27.00	-3.67	44201.920	2.5	51200.600	1.5
1428.5035	23.00	-1.20	19023.470	4.5	26021.890	3.5
1428.5075	29.01	-.58	139217.300	2.0	146215.700	1.0
1428.6035	6.00	-2.36	80834.610	3.0	87832.540	2.0
1428.6072	20.00	-1.48	41679.008	1.0	48676.920	1.0
1428.6072	20.00	-.83	41679.008	1.0	48676.920	2.0
1428.6423	6.00	-4.21	75253.970	1.0	82251.710	0.0
1428.6586	27.00	-4.05	44201.920	2.5	51199.580	3.5
1428.7056	7.01	-1.88	196540.230	0.0	203537.660	1.0
1428.7484	26.00	-2.91	51827.590	2.0	58824.810	2.0
1428.7729	29.01	-2.48	138981.300	2.0	145978.400	3.0
1428.7832	27.00	-4.76	45766.630	3.5	52763.680	3.5
1428.9077	28.01	-3.43	126738.820	1.5	133735.260	2.5
1428.9114	26.00	-2.85	47136.058	2.0	54132.480	1.0
1429.0752	21.00	-5.32	11520.150	1.5	18515.770	1.5
1429.0895	23.00	-3.52	19026.340	2.5	26021.890	3.5
1429.2235	7.00	-2.09	107253.106	2.5	114248.000	3.5
1429.2493	17.00	-3.02	84132.262	2.5	91127.030	2.5
1429.2591	19.00	-4.93	24701.430	.5	31696.150	1.5
1429.3022	26.00	.24	43633.491	2.0	50628.000	3.0
1429.4177	14.00	-1.17	53387.334	1.0	60381.278	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1429.4185	25.00	-4.50	34938.700	4.5	41932.640	3.5
1429.4265	14.00	-2.09	57328.789	1.0	64322.690	0.0
1429.4481	26.00	-2.64	44760.739	1.0	51754.534	1.0
1429.5368	7.00	-4.11	104859.700	1.5	111853.061	1.5
1429.5473	22.00	-5.68	11531.760	2.0	18525.070	2.0
1429.6127	18.01	-4.14	202420.490	.5	209413.480	1.5
1429.6720	23.00	-3.08	36925.880	3.5	43918.580	2.5
1429.6965	26.01	-4.81	92695.620	2.5	99688.200	3.5
1429.7429	17.00	-1.64	84688.637	.5	91680.990	1.5
1429.7558	27.00	-2.69	44568.470	2.5	51560.760	2.5
1429.8233	23.01	-4.52	30267.460	2.0	37259.420	1.0
1429.8317	18.00	-3.59	117563.020	0.0	124554.939	1.0
1429.8458	24.00	-2.95	37883.340	2.0	44875.190	2.0
1429.8634	26.00	-2.53	44378.420	1.0	51370.184	2.0
1429.8823	7.00	-3.20	104221.600	1.5	111213.271	1.5
1429.9460	19.00	-1.57	27397.100	2.5	34388.460	1.5
1429.9576	17.00	-4.94	94468.857	.5	101460.160	1.5
1429.9849	29.01	-4.41	138898.430	1.0	145889.600	0.0
1429.9982	28.00	-1.72	44314.980	4.0	51306.085	3.0
1430.0319	27.00	-3.51	44183.340	4.5	51174.280	5.5
1430.0646	22.00	-2.89	41780.950	4.0	48771.730	5.0
1430.1056	6.00	-2.75	80782.510	1.0	87773.090	2.0
1430.1088	28.00	-1.11	45281.152	3.0	52271.716	2.0
1430.1588	19.00	-2.53	27398.140	1.5	34388.460	1.5
1430.1990	22.00	-3.62	38699.767	2.0	45689.890	3.0
1430.2035	26.00	-4.15	47693.289	3.0	54683.390	4.0
1430.2201	19.00	-1.83	27398.140	1.5	34388.160	.5
1430.2324	17.00	-1.80	90749.360	2.5	97739.320	1.5
1430.2487	6.00	-1.52	78199.070	2.0	85188.950	1.0
1430.2543	14.00	-2.49	56780.427	1.0	63770.280	1.0
1430.2706	14.00	-2.41	57198.027	3.0	64187.800	3.0
1430.2856	13.01	-.73	139286.800	2.0	146276.500	3.0
1430.4882	26.01	-4.92	73189.160	1.5	80177.870	1.5
1430.4984	26.00	-3.77	53769.020	4.0	60757.680	4.0
1430.5599	6.00	-2.56	80801.270	2.0	87789.630	1.0
1430.6069	6.00	-.95	78215.510	3.0	85203.640	2.0
1430.6458	26.00	-2.59	51836.870	1.0	58824.810	2.0
1430.6540	30.02	-2.59	257796.000	5.0	264783.900	4.0
1430.6806	6.00	-3.48	71352.510	0.0	78340.280	1.0
1430.6921	12.00	-2.79	54192.256	3.0	61179.970	2.0
1430.6921	12.00	-1.46	54192.256	3.0	61179.970	3.0
1430.6921	12.00	-1.65	54192.256	3.0	61179.970	3.0
1430.6921	12.00	-.18	54192.256	3.0	61179.970	4.0
1430.6999	12.00	-1.41	54192.294	2.0	61179.970	2.0
1430.6999	12.00	-.40	54192.294	2.0	61179.970	3.0
1430.6999	12.00	-2.02	54192.294	2.0	61179.970	3.0
1430.7085	12.00	-.51	54192.336	1.0	61179.970	2.0
1430.7240	28.00	-1.64	49185.146	2.0	56172.704	3.0
1430.7740	14.00	-2.04	56503.346	2.0	63490.660	3.0
1430.7857	22.00	-3.47	41341.553	5.0	48328.810	4.0
1430.7974	15.00	-.12	65585.000	2.5	72572.200	1.5
1430.7974	8.01	-1.21	248185.300	2.5	255172.500	1.5
1430.8076	28.01	-2.97	109846.000	3.5	116833.150	4.5
1430.8219	23.01	-2.33	66158.600	4.0	73145.680	3.0
1430.8465	24.00	-4.69	48217.830	2.0	55204.790	3.0
1430.8713	26.00	-3.28	24335.764	2.0	31322.603	3.0
1430.8793	27.00	-2.16	44183.340	4.5	51170.140	4.5
1430.9141	18.01	-3.45	204585.640	2.5	211572.270	1.5
1430.9321	22.00	-3.66	41928.528	2.0	48915.070	2.0
1431.0238	14.00	-2.15	56503.346	2.0	63489.440	2.0
1431.1066	26.00	-4.17	53769.020	4.0	60754.710	4.0
1431.1412	26.00	-4.73	47271.999	1.0	54257.520	2.0
1431.1640	9.00	-3.37	119081.820	.5	126067.230	.5
1431.2123	26.00	-3.92	46889.126	4.0	53874.300	5.0
1431.2152	26.00	-1.90	51016.720	5.0	58001.880	6.0
1431.3168	14.00	-1.73	56503.346	2.0	63488.010	3.0
1431.3217	7.00	-.41	96750.810	1.5	103735.450	2.5
1431.3484	23.00	-3.32	35379.110	3.5	42363.620	3.5
1431.4734	21.00	-5.19	11520.150	1.5	18504.050	.5
1431.5616	24.00	-2.07	41575.100	3.0	48558.570	2.0
1431.6969	28.01	.54	122441.220	4.5	129424.030	5.5
1431.7293	26.00	-4.82	44166.240	3.0	51148.892	2.0
1431.7338	26.00	-4.64	44166.240	3.0	51148.870	3.0
1431.7776	7.00	-3.49	104221.600	1.5	111204.016	2.5
1431.8548	28.01	-3.04	99040.750	1.5	106022.790	.5
1431.9368	25.02	-.31	208935.880	4.5	215917.520	4.5
1432.0844	9.00	-2.32	129607.070	.5	136587.990	1.5
1432.0988	7.01	-1.25	203258.980	2.0	210239.830	1.0
1432.1091	15.00	-3.84	69894.600	1.5	76875.400	1.5
1432.2297	7.00	-2.29	107182.788	1.5	114163.000	1.5
1432.2733	17.01	-1.16	139350.000	1.0	146330.000	1.0
1432.3344	7.00	-2.44	103735.450	2.5	110715.154	3.5
1432.3348	29.01	-.86	141542.100	2.0	148521.800	1.0
1432.4005	26.01	-4.76	86416.220	3.5	93395.600	2.5
1432.4323	26.00	-4.28	44760.739	1.0	51739.964	2.0
1432.4591	7.00	-4.04	107253.106	2.5	114232.200	1.5
1432.5195	22.00	-3.64	39265.800	2.0	46244.600	2.0
1432.5832	28.01	-4.99	115108.090	2.5	122086.580	3.5
1432.6016	30.02	-3.17	258277.700	3.0	265256.100	3.0
1432.6098	28.01	.20	122441.220	4.5	129419.580	4.5
1432.6591	25.00	-2.67	57705.830	.5	64683.950	1.5
1432.7228	18.01	-3.81	184191.710	.5	191169.520	1.5
1432.8381	7.00	-4.28	104221.600	1.5	111198.848	.5
1432.8455	7.00	-2.50	107182.788	1.5	114160.000	1.5
1432.8455	7.00	-1.62	107182.788	1.5	114160.000	2.5
1433.0345	17.00	-3.35	94827.150	2.5	101803.442	2.5
1433.1151	6.00	-2.64	80801.270	2.0	87777.170	3.0
1433.1274	27.00	-2.68	41225.760	4.5	48201.600	3.5
1433.1284	26.00	-3.86	43499.485	4.0	50475.320	4.0
1433.1520	19.00	-4.06	24720.170	1.5	31695.890	2.5
1433.1929	14.00	-1.85	50566.397	1.0	57541.918	1.0
1433.2219	6.00	-3.01	71364.900	1.0	78340.280	1.0
1433.2406	7.00	-3.74	103735.450	2.5	110710.739	2.5
1433.2917	23.01	-3.70	66303.880	3.0	73278.920	4.0
1433.4233	29.01	-3.44	138981.300	2.0	145955.700	1.0
1433.4418	23.00	-2.61	31268.150	3.5	38242.460	3.5
1433.4792	26.00	-4.00	47092.693	3.0	54066.821	2.0
1433.4849	29.01	-.70	139241.600	1.0	146215.700	1.0
1433.5308	26.00	-3.05	47092.693	3.0	54066.570	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1433.6556	28.01	-4.78	129419.580	4.5	136392.850	3.5
1433.6720	25.00	-4.65	44814.730	1.5	51787.920	.5
1433.6753	14.00	-2.26	57017.496	2.0	63990.670	2.0
1433.6952	22.00	-4.53	15108.121	3.0	22081.198	2.0
1433.7244	20.00	-3.01	39335.322	1.0	46308.257	2.0
1433.7279	22.00	-2.98	27355.042	1.0	34327.960	1.0
1433.7563	9.00	-2.85	130489.930	.5	137462.710	1.5
1433.7707	7.01	.61	202765.260	2.0	209737.970	3.0
1433.7728	28.01	-3.49	129988.050	2.5	136960.750	2.5
1433.8303	24.00	-1.78	48014.400	4.0	54986.820	3.0
1433.8509	6.00	-3.02	80834.610	3.0	87806.930	3.0
1433.8529	25.02	-1.60	208743.100	2.5	215715.410	1.5
1433.8838	28.01	-4.28	115108.090	2.5	122080.250	2.5
1433.9537	6.00	-1.85	80801.270	2.0	87773.090	2.0
1434.0160	17.00	-2.36	94973.683	.5	101945.200	.5
1434.0160	17.00	-2.73	94973.683	.5	101945.200	1.5
1434.0771	6.00	-3.14	80782.510	1.0	87753.730	2.0
1434.0977	22.00	-3.24	41943.950	1.0	48915.070	2.0
1434.1131	26.00	-4.54	53393.715	4.0	60364.760	3.0
1434.2418	9.00	-2.40	129484.660	1.5	136455.080	1.5
1434.2932	26.01	-3.96	92602.940	3.5	99573.110	4.5
1434.3312	28.00	-1.44	44336.100	4.0	51306.085	3.0
1434.3357	14.00	-1.91	56780.427	1.0	63750.390	1.0
1434.4743	29.01	-.74	137913.800	1.0	144883.090	2.0
1434.6182	20.00	-2.49	39333.382	0.0	46301.973	1.0
1434.6572	14.00	-1.77	50499.838	2.0	57468.239	2.0
1434.6725	20.00	-2.22	39335.322	1.0	46303.649	2.0
1434.7034	20.00	-3.30	39340.080	2.0	46308.257	2.0
1434.7831	27.00	-4.18	46002.830	2.5	52970.620	2.5
1434.8552	24.00	-1.88	27223.050	2.0	34190.490	2.0
1434.9477	7.00	-4.87	104886.070	.5	111853.061	1.5
1434.9808	9.00	-1.60	129484.660	1.5	136451.490	2.5
1434.9837	28.00	-4.22	35639.148	3.0	42605.964	3.0
1435.0176	20.00	-2.57	39335.322	1.0	46301.973	1.0
1435.1561	20.00	-1.88	39340.080	2.0	46306.059	3.0
1435.1786	24.00	-4.36	35572.940	2.0	42538.810	3.0
1435.1930	15.00	-2.79	70689.400	3.5	77655.200	3.5
1435.2404	28.01	-4.68	115209.850	3.5	122175.420	2.5
1435.2991	26.00	-4.40	44183.607	2.0	51148.892	2.0
1435.4629	28.01	-4.46	113225.060	.5	120189.550	.5
1435.4980	25.00	-3.14	50341.300	4.5	57305.620	3.5
1435.5264	26.00	-3.03	47197.000	2.0	54161.182	3.0
1435.5784	28.01	-3.73	120903.200	3.5	127867.130	4.5
1435.5887	23.01	-3.30	44159.430	2.0	51123.310	2.0
1435.6528	20.00	-2.61	39340.080	2.0	46303.649	2.0
1435.7701	17.02	-3.54	198983.900	1.5	205946.900	2.5
1435.8381	9.02	-4.23	457959.070	3.5	464921.740	3.5
1435.8629	7.01	.78	202861.360	3.0	209823.910	4.0
1435.8938	18.01	-4.50	212198.000	3.5	219160.400	2.5
1435.9351	15.01	-2.22	132078.400	4.0	139040.600	4.0
1435.9728	22.00	-4.08	18145.400	2.0	25107.417	2.0
1435.9984	20.00	-3.64	39340.080	2.0	46301.973	1.0
1436.0482	12.00	-1.64	49346.729	1.0	56308.381	2.0
1436.0589	13.01	-.29	142607.000	2.0	149568.600	3.0
1436.1001	28.01	-4.41	128732.030	1.5	135693.430	2.5
1436.1496	21.00	-4.73	11610.240	3.5	18571.400	2.5
1436.1525	28.00	-2.67	50142.800	3.0	57103.946	3.0
1436.1909	26.00	-3.51	47171.520	0.0	54132.480	1.0
1436.1911	14.00	-2.53	47284.061	1.0	54245.020	0.0
1436.2899	18.00	-1.20	116942.815	3.0	123903.295	2.0
1436.3374	28.01	-4.12	115120.000	2.5	122080.250	2.5
1436.3669	26.00	-4.18	47106.463	4.0	54066.570	4.0
1436.3828	9.00	-2.96	130489.930	.5	137449.960	1.5
1436.4530	18.01	-2.17	194822.100	3.5	201781.790	2.5
1436.4859	7.01	-1.14	202714.120	1.0	209673.650	2.0
1436.5046	26.00	-4.90	47420.000	2.0	54379.440	3.0
1436.5334	8.02	-2.96	370415.700	1.0	377375.000	2.0
1436.5335	29.01	-3.84	146496.200	3.0	153455.500	4.0
1436.5809	25.00	-3.42	37737.220	3.5	44696.290	2.5
1436.5857	26.00	-3.89	44411.137	1.0	51370.184	2.0
1436.6806	22.00	-1.46	37622.573	3.0	44581.160	2.0
1436.7750	21.00	-4.74	11557.640	2.5	18515.770	1.5
1436.9092	22.00	-3.26	18145.400	2.0	25102.880	2.0
1436.9695	17.00	-2.15	84132.262	2.5	91089.450	3.5
1436.9859	26.00	-4.01	44022.518	4.0	50979.627	4.0
1437.0683	18.01	-2.99	183985.940	1.5	190942.650	.5
1437.0704	15.01	-1.69	131353.300	2.0	138310.000	2.0
1437.1324	15.01	-.89	130801.700	1.0	137758.100	0.0
1437.1998	17.00	-4.72	88188.550	1.5	95144.623	2.5
1437.2110	26.00	-4.24	40421.890	4.0	47377.909	4.0
1437.2377	25.00	-2.89	56567.930	1.5	63523.820	2.5
1437.2730	26.00	-4.12	47420.000	2.0	54375.719	2.0
1437.3658	26.00	-2.87	47177.210	1.0	54132.480	1.0
1437.4423	6.00	-4.78	71385.380	2.0	78340.280	1.0
1437.4588	28.01	-.09	122441.220	4.5	129396.040	5.5
1437.5043	17.02	-4.27	198983.900	1.5	205938.500	1.5
1437.5082	17.00	-1.90	90749.360	2.5	97703.941	2.5
1437.5704	17.00	-3.17	90749.360	2.5	97703.640	1.5
1437.5899	22.00	-4.40	11639.804	3.0	18593.990	3.0
1437.6085	28.00	-2.66	50789.500	4.0	57743.596	3.0
1437.7379	22.00	-3.52	41255.400	4.0	48208.870	3.0
1437.7937	13.01	-2.05	125866.700	1.0	132819.900	2.0
1437.7937	13.01	-2.53	125866.700	1.0	132819.900	1.0
1437.8599	24.00	-3.95	48251.910	3.0	55204.790	3.0
1437.8785	6.00	-2.42	80782.510	1.0	87735.300	1.0
1437.9467	6.00	-1.95	80801.270	2.0	87753.730	2.0
1438.0249	22.00	-4.45	39115.958	4.0	46068.040	4.0
1438.0605	18.01	-4.08	199679.760	2.5	206631.670	2.5
1438.1288	27.00	-3.63	48317.170	3.5	55268.750	3.5
1438.2281	22.00	-5.03	11531.760	2.0	18482.860	1.0
1438.3108	15.00	-4.42	69924.700	2.5	76875.400	1.5
1438.4164	9.00	-3.93	129484.660	1.5	136434.850	2.5
1438.4847	17.00	-.87	85244.330	.5	92194.190	1.5
1438.5489	26.00	-2.52	47017.170	3.0	53966.720	2.0
1438.7248	15.01	-.11	125129.700	3.0	132078.400	4.0
1438.7348	26.00	-4.81	44243.668	5.0	51192.320	4.0
1438.7352	27.00	-4.81	48334.370	1.5	55283.020	2.5
1438.7787	26.01	-2.99	58631.650	4.5	65580.090	5.5
1439.0086	18.01	-2.53	202429.840	3.5	209377.170	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1439.0329	7.00	-1.63	107182.788	1.5	114130.000	.5
1439.0814	8.00	-1.57	99680.968	1.0	106627.946	1.0
1439.0860	28.00	-2.56	49327.560	3.0	56274.516	2.0
1439.0982	8.00	-1.35	99681.049	2.0	106627.946	1.0
1439.1521	8.00	-2.04	99681.309	0.0	106627.946	1.0
1439.1913	22.00	-3.92	38764.832	3.0	45711.280	4.0
1439.1929	28.01	-4.07	130331.780	1.5	137278.220	1.5
1439.2136	25.00	-3.54	50359.280	3.5	57305.620	3.5
1439.2136	18.01	-.52	202467.140	1.5	209413.480	1.5
1439.2427	29.01	-2.56	138981.300	2.0	145927.500	2.0
1439.3223	18.00	-2.05	118407.494	1.0	125353.310	1.0
1439.3691	7.01	-.87	196592.070	1.0	203537.660	1.0
1439.4830	18.01	-.64	202253.590	1.5	209198.630	2.5
1439.5452	28.01	-3.97	122837.330	4.5	129782.070	3.5
1439.5805	12.01	-1.63	108900.030	2.5	115844.600	2.5
1439.5805	12.01	-.33	108900.030	2.5	115844.600	3.5
1439.6136	12.01	-.48	108900.190	1.5	115844.600	2.5
1439.6337	26.00	-2.18	44760.739	1.0	51705.052	2.0
1439.6904	18.01	-3.09	199679.760	2.5	206623.800	3.5
1439.7525	23.00	-3.82	19078.150	3.5	26021.890	3.5
1439.7902	7.00	-3.96	104221.600	1.5	111165.158	1.5
1439.9280	7.00	-2.47	107253.106	2.5	114196.000	2.5
1439.9620	6.00	.07	71364.900	1.0	78307.630	2.0
1439.9869	28.01	-3.14	99340.550	3.5	106283.160	2.5
1439.9973	6.00	-1.56	80834.610	3.0	87777.170	3.0
1440.0167	26.00	-4.78	46888.494	2.0	53830.960	3.0
1440.0767	26.00	-.04	44676.963	4.0	51619.140	3.0
1440.0844	9.00	-.70	129484.660	1.5	136426.800	1.5
1440.1383	25.00	-4.60	44696.290	2.5	51638.170	2.5
1440.1479	26.00	-3.53	46889.126	4.0	53830.960	3.0
1440.2254	28.01	-2.90	113225.060	.5	120166.520	1.5
1440.2995	14.00	-1.88	56780.427	1.0	63721.530	2.0
1440.3250	6.00	-.20	71352.510	0.0	78293.490	1.0
1440.3416	28.01	-4.74	121050.660	2.5	127991.560	3.5
1440.5108	26.00	-2.03	44664.061	2.0	51604.146	3.0
1440.5492	29.01	-.82	141542.100	2.0	148482.000	3.0
1440.5720	24.00	-.19	42238.040	2.0	49177.830	3.0
1440.5907	23.00	-4.41	35225.040	2.5	42164.740	3.5
1440.5996	22.00	-4.33	18287.560	4.0	25227.217	3.0
1440.6364	22.00	-4.50	39785.940	4.0	46725.420	3.0
1440.6368	14.00	-2.56	50602.440	0.0	57541.918	1.0
1440.6945	28.01	-3.11	115108.090	2.5	122047.290	3.5
1440.6949	26.00	-4.50	43922.652	3.0	50861.850	3.0
1440.8050	26.00	-4.20	43922.652	3.0	50861.320	2.0
1440.8441	6.00	-3.02	80834.610	3.0	87773.090	2.0
1440.9391	20.00	-3.51	40537.893	3.0	47475.915	3.0
1440.9790	28.01	-3.62	98561.220	2.5	105499.050	3.5
1440.9914	19.00	-2.26	27450.690	.5	34388.460	1.5
1440.9973	26.00	-3.90	53739.488	5.0	60677.230	5.0
1441.0351	24.00	-2.08	35501.260	3.0	42438.820	2.0
1441.0538	19.00	-2.56	27450.690	.5	34388.160	.5
1441.0648	22.00	-3.85	41170.003	3.0	48107.420	2.0
1441.2385	18.00	-1.47	116999.389	2.0	123935.970	1.0
1441.3239	29.01	-2.03	116080.460	3.0	123016.630	3.0
1441.3425	15.00	-3.22	65450.020	1.5	72386.100	2.5
1441.3488	6.00	-2.03	80782.510	1.0	87718.560	1.0
1441.3793	14.00	-1.62	57198.027	3.0	64133.930	4.0
1441.3862	6.00	-2.70	70743.950	1.0	77679.820	2.0
1441.4673	26.00	-3.40	47197.000	2.0	54132.480	1.0
1441.4739	26.00	-3.68	44415.057	4.0	51350.505	4.0
1441.4839	9.00	-1.01	129484.660	1.5	136420.060	.5
1441.4922	28.00	-1.28	49327.560	3.0	56262.920	3.0
1441.6038	22.00	-3.70	39715.437	3.0	46650.260	3.0
1441.7687	6.00	-3.12	80801.270	2.0	87735.300	1.0
1441.7805	14.00	-2.93	56780.427	1.0	63714.400	2.0
1441.8533	26.00	-2.50	44285.436	2.0	51219.059	3.0
1441.9787	14.00	-1.00	57450.580	3.0	64383.600	4.0
1441.9870	28.01	-2.69	102742.740	1.5	109675.720	.5
1442.0099	6.00	.26	71385.380	2.0	78318.250	3.0
1442.0141	25.00	-2.59	57705.830	.5	64638.680	.5
1442.0840	26.00	-4.49	45281.816	2.0	52214.330	1.0
1442.1098	25.00	-4.22	50373.230	2.5	57305.620	3.5
1442.1680	24.01	-4.72	84494.200	2.5	91426.310	2.5
1442.2673	14.00	-3.80	57372.297	2.0	64303.930	3.0
1442.3137	23.00	-1.43	14910.040	3.5	21841.450	2.5
1442.4027	22.00	-4.31	41928.528	2.0	48859.510	1.0
1442.4281	28.01	-3.08	115209.850	3.5	122140.710	4.5
1442.4483	26.00	-3.55	47136.058	2.0	54066.821	2.0
1442.6319	14.00	-3.71	57468.239	2.0	64398.120	2.0
1442.6904	30.02	-3.42	258075.700	3.0	265005.300	2.0
1442.6911	14.00	-1.28	49850.830	2.0	56780.427	1.0
1442.8153	17.00	-1.61	94663.670	1.5	101592.670	.5
1442.8189	22.00	-3.63	37325.407	2.0	44254.390	3.0
1442.8374	7.00	-2.41	107253.106	2.5	114182.000	2.5
1442.8445	6.00	-1.74	80782.510	1.0	87711.370	0.0
1442.8832	20.00	-1.44	35818.713	3.0	42747.387	3.0
1442.9007	6.00	-.36	71364.900	1.0	78293.490	1.0
1442.9780	22.00	-4.45	32857.721	3.0	39785.940	4.0
1443.1040	26.00	-2.48	44826.920	0.0	51754.534	1.0
1443.1081	14.00	-1.43	57017.496	2.0	63945.090	3.0
1443.1110	15.00	-.51	65450.020	1.5	72377.600	.5
1443.1715	28.01	-2.27	115120.000	2.5	122047.290	3.5
1443.1785	18.00	-1.75	118407.494	1.0	125334.750	0.0
1443.1992	17.00	-4.94	94827.150	2.5	101754.307	3.5
1443.2902	26.00	-4.67	53830.960	3.0	60757.680	4.0
1443.3694	23.01	-4.64	44159.430	2.0	51085.770	3.0
1443.4397	20.00	-.58	35818.713	3.0	42744.716	2.0
1443.4403	6.00	-.95	80834.610	3.0	87760.610	4.0
1443.5028	6.00	-1.83	80782.510	1.0	87708.210	2.0
1443.5528	28.01	-2.02	114874.880	2.5	121800.340	1.5
1443.5737	22.00	-2.78	17995.750	0.0	24921.110	1.0
1443.6366	22.00	-4.79	38764.832	3.0	45689.890	3.0
1443.6550	17.00	-1.24	90749.360	2.5	97674.330	2.5
1443.6571	23.00	-1.68	31317.500	4.5	38242.460	3.5
1443.6591	9.00	-3.90	129659.500	3.5	136584.450	2.5
1443.7046	17.00	-.10	90749.360	2.5	97674.092	3.5
1443.7133	26.01	-4.26	58631.650	4.5	65556.340	4.5
1443.9156	24.00	-.05	42254.110	3.0	49177.830	3.0
1443.9156	25.00	-2.76	57485.970	2.5	64409.690	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1443.9198	26.00	-1.87	43499.485	4.0	50423.185	4.0
1443.9717	26.00	-4.04	47377.909	4.0	54301.360	4.0
1443.9717	26.00	-1.42	47377.909	4.0	54301.360	4.0
1443.9969	8.01	-1.09	238892.960	2.5	245816.290	1.5
1444.0051	14.00	-2.31	57328.789	1.0	64252.080	2.0
1444.1430	7.00	-1.49	107253.106	2.5	114175.736	3.5
1444.1534	22.00	-2.72	34535.040	2.0	41457.620	3.0
1444.1695	28.00	-4.73	47328.850	2.0	54251.353	3.0
1444.2035	23.01	-4.26	44200.970	1.0	51123.310	2.0
1444.2222	6.00	-.45	71385.380	2.0	78307.630	2.0
1444.2813	7.00	-4.89	104221.600	1.5	111143.567	.5
1444.3996	15.00	-1.58	68183.200	1.5	75104.600	.5
1444.4205	15.01	-.31	131632.000	3.0	138553.300	2.0
1444.4213	26.00	-.43	42815.814	5.0	49737.110	5.0
1444.4771	14.00	-4.36	47284.061	1.0	54205.090	2.0
1444.5582	24.00	-3.67	48288.370	4.0	55209.010	4.0
1444.5832	18.01	-2.93	194861.270	2.5	201781.790	2.5
1444.6083	25.02	-1.78	208743.100	2.5	215663.500	3.5
1444.6500	15.01	.44	124433.100	1.0	131353.300	2.0
1444.7162	26.00	-4.93	44415.057	4.0	51334.940	4.0
1444.7336	29.01	-3.50	138981.300	2.0	145901.100	1.0
1444.7733	10.01	-2.90	302057.260	.5	308976.870	.5
1444.7858	27.00	-3.02	45876.580	2.5	52796.130	2.5
1444.8380	8.01	-2.60	248185.300	2.5	255104.600	2.5
1444.8756	6.00	-1.13	80834.610	3.0	87753.730	2.0
1444.9340	23.01	-3.58	66303.880	3.0	73222.720	4.0
1445.0004	26.00	-3.38	40534.180	3.0	47452.702	4.0
1445.0209	22.00	-3.62	11776.806	4.0	18695.230	4.0
1445.0364	14.00	-3.22	56700.250	1.0	63618.600	0.0
1445.0447	17.00	.47	84988.480	1.5	91906.790	2.5
1445.0489	6.00	-4.08	82251.710	0.0	89170.000	1.0
1445.0869	28.00	-1.37	45122.460	1.0	52040.568	2.0
1445.0886	30.02	-2.86	257908.200	1.0	264826.300	1.0
1445.1020	17.00	-.62	90749.360	2.5	97667.396	3.5
1445.1366	28.01	-3.21	109038.840	1.5	115956.710	2.5
1445.2578	6.00	-1.41	80801.270	2.0	87718.560	1.0
1445.2933	23.01	-4.14	30613.970	4.0	37531.090	4.0
1445.3643	14.01	.16	112394.820	1.5	119311.600	2.5
1445.3957	29.01	-2.58	116388.000	2.0	123304.630	1.0
1445.3978	14.01	-.99	112394.980	2.5	119311.600	2.5
1445.4291	14.01	.31	112394.980	2.5	119311.450	3.5
1445.4396	24.00	-4.28	48288.370	4.0	55204.790	3.0
1445.4584	28.00	-1.13	45281.152	3.0	52197.482	3.0
1445.4605	7.00	-.59	96750.810	1.5	103667.130	1.5
1445.4647	28.00	-3.18	50851.220	1.0	57767.520	1.0
1445.5034	7.00	-3.36	104144.790	.5	111060.905	.5
1445.5190	27.00	-3.14	46872.740	3.5	53788.780	4.5
1445.5280	26.00	-4.65	48460.120	0.0	55376.117	1.0
1445.6194	22.00	-3.27	41943.950	1.0	48859.510	1.0
1445.7795	12.00	-2.85	54192.256	3.0	61107.050	2.0
1445.7795	12.00	-1.52	54192.256	3.0	61107.050	3.0
1445.7795	12.00	-1.72	54192.256	3.0	61107.050	3.0
1445.7795	12.00	-.25	54192.256	3.0	61107.050	4.0
1445.7874	12.00	-1.48	54192.294	2.0	61107.050	2.0
1445.7874	12.00	-.47	54192.294	2.0	61107.050	3.0
1445.7874	12.00	-2.07	54192.294	2.0	61107.050	3.0
1445.7962	12.00	-.58	54192.336	1.0	61107.050	2.0
1445.8219	14.00	-1.84	57328.789	1.0	64243.380	2.0
1445.8560	13.00	-1.98	40277.872	1.5	47192.300	2.5
1445.8780	26.00	-4.66	24772.019	1.0	31686.342	2.0
1445.9112	26.00	-3.70	48531.896	3.0	55446.060	4.0
1446.0660	17.00	-4.91	94314.206	1.5	101227.630	.5
1446.0804	26.00	-1.73	40842.130	3.0	47755.485	3.0
1446.1484	6.00	-3.48	82251.710	0.0	89164.740	1.0
1446.1735	26.00	-3.83	50901.060	2.0	57813.970	3.0
1446.3409	6.00	-1.31	80801.270	2.0	87713.380	3.0
1446.3694	20.00	-3.56	35835.413	2.0	42747.387	3.0
1446.3848	25.02	-.41	208751.600	4.5	215663.500	3.5
1446.5288	22.00	-3.21	41928.528	2.0	48839.740	3.0
1446.5334	20.00	-.76	40537.893	3.0	47449.083	2.0
1446.6423	13.02	-1.50	201971.160	2.5	208881.830	2.5
1446.6423	13.02	-.19	201971.160	3.5	208881.830	2.5
1446.6423	13.02	-.35	201971.160	2.5	208881.830	1.5
1446.6779	13.01	-3.88	139588.700	4.0	146499.200	4.0
1446.6779	13.01	-4.02	139588.700	4.0	146499.200	4.0
1446.6779	13.01	-2.35	139588.700	5.0	146499.200	4.0
1446.7026	26.00	-2.09	44551.325	3.0	51461.707	4.0
1446.7512	6.00	-2.30	78293.490	1.0	85203.640	2.0
1446.7616	15.01	-.06	123891.600	2.0	130801.700	1.0
1446.7762	18.01	-1.68	202467.140	1.5	209377.170	2.5
1446.7825	29.01	-2.30	139119.500	3.0	146029.500	4.0
1446.7951	26.02	-4.94	219471.970	4.0	226381.910	3.0
1446.8047	7.00	-1.33	107253.106	2.5	114163.000	1.5
1446.8119	28.01	-3.58	103663.500	1.5	110573.360	2.5
1446.8286	24.00	-1.31	44125.900	1.0	51035.680	2.0
1446.8453	13.01	-.02	125866.700	1.0	132776.400	0.0
1446.8663	19.02	-1.87	243947.400	1.5	250857.000	.5
1446.9285	20.00	-2.45	35835.413	2.0	42744.716	2.0
1446.9490	26.00	-4.33	44551.325	3.0	51460.530	3.0
1446.9660	17.00	-3.57	94314.206	1.5	101223.330	2.5
1446.9710	13.01	-4.01	139588.700	3.0	146497.800	3.0
1446.9710	13.01	-2.51	139588.700	4.0	146497.800	3.0
1446.9710	13.01	-1.81	139588.700	4.0	146497.800	3.0
1447.0339	15.00	-1.31	65585.000	2.5	72493.800	1.5
1447.0548	29.01	-.61	141733.900	2.0	148642.600	2.0
1447.1198	7.01	-1.99	202765.260	2.0	209673.650	2.0
1447.1783	6.00	-1.59	71385.380	2.0	78293.490	1.0
1447.2014	13.01	-2.59	139588.700	3.0	146496.700	2.0
1447.2875	20.00	-1.64	35835.413	2.0	42743.002	1.0
1447.3271	15.01	-2.36	132133.200	3.0	139040.600	4.0
1447.3460	28.01	-1.83	113408.710	1.5	120316.020	.5
1447.4005	17.00	-1.10	85244.330	.5	92151.380	.5
1447.4236	6.00	-2.92	80801.270	2.0	87708.210	2.0
1447.4332	7.00	-3.95	107253.106	2.5	114160.000	2.5
1447.4739	13.01	-1.04	142362.800	2.0	149269.500	2.0
1447.4739	13.01	-.31	142362.800	1.0	149269.500	2.0
1447.4739	13.01	-.51	142362.800	2.0	149269.500	3.0
1447.4739	13.01	-2.59	142362.800	3.0	149269.500	2.0
1447.4739	13.01	-1.41	142362.800	3.0	149269.500	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1447.4739	13.01	.02	142362.800	3.0	149269.500	4.0
1447.4801	29.01	-2.64	128853.300	2.0	135759.970	2.0
1447.4864	23.01	-3.08	30613.970	4.0	37520.610	3.0
1447.5451	25.00	-3.96	37789.930	2.5	44696.290	2.5
1447.5463	14.00	-2.63	56978.256	1.0	63884.610	1.0
1447.5786	23.00	-3.89	31200.120	1.5	38106.320	2.5
1447.6107	26.00	-2.23	41130.620	1.0	48036.667	2.0
1447.8291	28.00	-2.63	48671.900	3.0	55576.905	3.0
1447.9791	25.02	.54	209289.760	6.5	216194.050	5.5
1448.0315	24.00	-3.01	46637.210	3.0	53541.250	2.0
1448.0546	23.01	-2.47	65885.300	2.0	72789.230	3.0
1448.0596	18.00	-1.94	116999.389	2.0	123903.295	2.0
1448.0609	27.00	-4.22	48546.070	1.5	55449.970	2.5
1448.1469	25.00	-4.76	44814.730	1.5	51718.220	1.5
1448.2283	26.00	-4.49	48475.740	3.0	55378.842	2.0
1448.3273	24.00	.06	42275.200	4.0	49177.830	3.0
1448.4553	20.01	-2.22	78034.390	2.5	84936.410	2.5
1448.4553	20.01	-.92	78034.390	3.5	84936.410	2.5
1448.4595	29.01	-3.65	139119.500	3.0	146021.500	3.0
1448.4927	14.00	-2.24	50566.397	1.0	57468.239	2.0
1448.5602	21.00	-3.23	33056.190	3.5	39957.710	4.5
1448.6267	14.00	-3.27	47284.061	1.0	54185.264	1.0
1448.6610	26.00	-2.19	51619.140	3.0	58520.180	4.0
1448.6679	28.00	-1.89	43933.428	2.0	50834.435	2.0
1448.7114	30.02	-1.31	230606.000	0.0	237506.800	1.0
1448.7492	24.00	-4.12	47917.930	2.0	54818.550	2.0
1448.7513	23.02	-1.94	154265.200	3.5	161165.810	2.5
1448.8688	22.00	-3.18	41959.460	0.0	48859.510	1.0
1448.9252	10.00	-3.38	163657.268	1.0	170557.050	1.0
1448.9633	24.00	-3.25	47772.300	1.0	54671.900	1.0
1448.9696	24.00	-3.64	39158.630	4.0	46058.200	4.0
1449.0347	20.01	-1.08	78034.390	2.5	84933.650	1.5
1449.1104	29.01	-2.29	146556.600	3.0	153455.500	4.0
1449.1335	18.01	-1.07	194883.000	3.5	201781.790	2.5
1449.1692	24.00	-3.49	48310.390	5.0	55209.010	4.0
1449.1711	28.00	-1.29	43933.428	2.0	50832.039	3.0
1449.1713	23.01	-4.89	30306.400	3.0	37205.010	3.0
1449.2532	17.00	-4.00	94827.150	2.5	101725.370	1.5
1449.3750	6.00	-2.78	82251.710	0.0	89149.350	1.0
1449.4465	29.01	-.35	141733.900	2.0	148631.200	3.0
1449.4654	28.00	-3.28	50689.490	2.0	57586.700	2.0
1449.4908	7.00	-4.29	105008.520	2.5	111905.609	2.5
1449.6691	14.00	-4.56	57468.239	2.0	64364.480	2.0
1449.7176	6.00	-1.20	78307.630	2.0	85203.640	2.0
1449.7624	17.00	-1.20	85244.330	.5	92140.127	1.5
1449.7828	29.01	-4.08	146559.800	4.0	153455.500	4.0
1449.8333	6.00	-1.16	78293.490	1.0	85188.950	1.0
1449.8753	22.00	-4.65	37359.130	2.0	44254.390	3.0
1450.0373	18.01	-2.25	163506.450	3.5	170400.940	2.5
1450.0457	28.01	-4.63	106283.160	2.5	113177.610	3.5
1450.1508	7.00	-1.46	97770.150	.5	104664.100	1.5
1450.1592	6.00	-.66	78731.270	1.0	85625.180	0.0
1450.1938	26.00	-3.65	47555.584	1.0	54449.330	1.0
1450.2144	18.00	-1.76	118459.662	1.0	125353.310	1.0
1450.2560	23.01	-5.00	37205.010	3.0	44098.460	3.0
1450.3044	27.00	-1.81	45971.190	3.5	52864.410	4.5
1450.3865	25.00	-3.29	37630.620	4.5	44523.450	3.5
1450.5881	20.00	-1.52	41679.008	1.0	48570.880	1.0
1450.5881	20.00	-.88	41679.008	1.0	48570.880	2.0
1450.6180	22.00	-3.60	40302.950	3.0	47194.680	4.0
1450.6222	22.00	-1.87	41780.950	4.0	48672.660	4.0
1450.6938	23.00	-3.49	37174.680	3.5	44066.050	3.5
1450.8980	17.00	-1.43	84648.100	2.5	91538.500	1.5
1450.9138	26.00	-3.55	53281.735	5.0	60172.060	4.0
1450.9190	29.01	-2.59	146559.800	4.0	153450.100	5.0
1450.9401	28.01	-4.16	128803.230	2.5	135693.430	2.5
1450.9401	28.01	-4.67	128803.230	2.5	135693.430	3.5
1450.9780	26.00	-2.05	51381.480	4.0	58271.500	5.0
1450.9864	26.01	-2.86	58666.360	3.5	65556.340	4.5
1451.0486	18.00	-2.07	116942.815	3.0	123832.500	3.0
1451.0641	26.00	-3.65	47177.210	1.0	54066.821	2.0
1451.0833	25.00	-4.72	55405.140	2.5	62294.660	3.5
1451.1086	55.00	-.77	21946.660	0.0	28837.943	0.0
1451.2350	27.00	-4.70	47393.930	2.5	54282.730	2.5
1451.3266	7.00	-2.93	107182.788	1.5	114071.153	1.5
1451.3361	27.00	-2.54	46454.950	1.5	53343.270	1.5
1451.3721	28.00	-2.27	50789.500	4.0	57677.649	5.0
1451.3953	7.00	-1.91	105017.570	3.5	111905.609	2.5
1451.4004	28.00	-3.53	47686.625	0.0	54574.640	1.0
1451.5723	26.00	-3.95	29798.960	4.0	36686.159	4.0
1451.6649	24.00	-4.18	47917.930	2.0	54804.690	1.0
1451.7176	28.01	-4.99	109846.000	3.5	116732.510	2.5
1451.7450	23.01	-3.09	30318.630	4.0	37205.010	3.0
1451.7787	23.00	-4.84	13801.530	1.5	20687.750	1.5
1451.7827	22.00	-2.56	18911.399	2.0	25797.600	3.0
1451.7951	26.00	-4.33	48238.832	2.0	55124.974	3.0
1451.8040	8.01	-3.13	248009.100	1.5	254895.200	1.5
1451.8040	8.01	-1.99	248009.100	1.5	254895.200	2.5
1451.8146	19.00	-1.60	27397.100	2.5	34283.150	1.5
1451.8346	26.00	-4.43	38175.332	3.0	45061.287	3.0
1451.8403	7.00	-3.56	104615.440	1.5	111501.368	1.5
1451.8630	26.00	-3.90	40534.180	3.0	47420.000	2.0
1451.8672	24.00	-2.81	47786.100	2.0	54671.900	1.0
1451.9254	14.00	-3.14	56978.256	1.0	63863.780	2.0
1451.9326	27.00	-4.34	45971.190	3.5	52856.680	3.5
1451.9514	26.00	-4.75	43922.652	3.0	50808.053	4.0
1451.9537	6.00	-.53	78318.250	3.0	85203.640	2.0
1451.9779	18.00	-3.13	118906.665	2.0	125791.940	2.0
1451.9798	22.00	-4.32	11639.804	3.0	18525.070	2.0
1451.9895	25.02	-.35	209032.300	5.5	215917.520	4.5
1452.0043	23.00	-3.00	37180.900	4.5	44066.050	3.5
1452.0338	19.00	-2.55	27398.140	1.5	34283.150	1.5
1452.1140	19.00	-1.85	27398.140	1.5	34282.770	.5
1452.2009	14.00	-3.34	54313.818	1.0	61198.036	0.0
1452.2062	18.00	-1.35	118469.117	2.0	125353.310	1.0
1452.2173	28.01	-4.61	106022.790	.5	112906.930	1.5
1452.2395	18.00	-3.29	116942.815	3.0	123826.850	2.0
1452.2420	26.00	-.25	45061.287	3.0	51945.310	2.0
1452.2785	7.00	-.54	97770.150	.5	104654.000	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1452.2848	24.00	-2.72	47788.080	0.0	54671.900	1.0
1452.3268	14.00	-2.86	57468.239	2.0	64351.860	1.0
1452.3289	14.00	-3.80	57468.239	2.0	64351.850	3.0
1452.3777	26.00	-3.39	53874.300	5.0	60757.680	4.0
1452.4766	18.00	-3.50	116999.389	2.0	123882.300	1.0
1452.5233	24.00	-3.99	42438.820	2.0	49321.510	2.0
1452.5634	26.00	-2.22	51827.590	2.0	58710.090	3.0
1452.5722	28.00	-3.81	43464.019	1.0	50346.477	2.0
1452.6014	10.01	-.73	301855.710	2.5	308738.030	1.5
1452.6183	55.00	-.72	21946.660	0.0	28830.781	0.0
1452.7111	26.02	-4.19	219566.080	3.0	226447.880	2.0
1452.7322	24.00	-4.63	44068.720	3.0	50950.420	3.0
1452.7344	28.01	-4.63	105838.060	3.5	112719.750	3.5
1452.8125	6.00	-.74	78307.630	2.0	85188.950	1.0
1452.9645	17.00	-.53	91538.500	1.5	98419.100	2.5
1452.9962	26.00	-3.42	51016.720	5.0	57897.170	5.0
1453.0046	26.00	-3.65	53874.300	5.0	60754.710	4.0
1453.0321	23.00	-4.82	17054.870	2.5	23935.150	2.5
1453.1136	26.00	-3.39	46889.126	4.0	53769.020	4.0
1453.1968	26.00	-4.45	51945.310	2.0	58824.810	2.0
1453.2010	7.00	-2.64	96787.650	1.5	103667.130	1.5
1453.2179	24.00	-2.22	41782.190	4.0	48661.590	3.0
1453.2179	29.01	-3.48	139142.100	2.0	146021.500	3.0
1453.2496	14.01	-3.04	112394.820	1.5	119274.070	1.5
1453.2591	26.00	-3.74	44415.057	4.0	51294.262	3.0
1453.2834	14.01	-2.08	112394.980	2.5	119274.070	1.5
1453.3130	26.00	-2.40	51945.860	1.0	58824.810	2.0
1453.3236	23.01	-4.06	30641.710	3.0	37520.610	3.0
1453.3477	18.00	-4.54	118407.494	1.0	125286.280	1.0
1453.3511	6.00	-4.25	80834.610	3.0	87713.380	3.0
1453.3806	28.01	-2.94	98561.220	2.5	105439.850	1.5
1453.4218	26.00	-3.90	43499.485	4.0	50377.920	5.0
1453.5729	7.00	-4.93	103667.130	1.5	110544.850	2.5
1453.5932	5.00	-4.14	57786.376	.5	64664.000	1.5
1453.6532	23.00	-2.53	31228.980	2.5	38106.320	2.5
1453.6786	7.00	-3.10	97805.810	1.5	104683.030	2.5
1453.6966	18.00	-2.49	118906.665	2.0	125783.800	1.0
1453.7281	5.00	-3.88	57787.014	1.5	64664.000	2.5
1453.7281	5.00	-4.84	57787.014	1.5	64664.000	1.5
1453.7568	23.00	-5.73	13810.900	.5	20687.750	1.5
1453.7652	6.00	-3.81	81769.790	2.0	88646.600	1.0
1453.7822	28.01	-3.41	115209.850	3.5	122086.580	3.5
1453.8075	7.01	-.33	202861.360	3.0	209737.970	3.0
1453.8139	22.00	-1.90	41895.150	5.0	48771.730	5.0
1453.9111	6.00	-1.04	78293.490	1.0	85169.610	0.0
1453.9302	29.01	.29	137938.900	4.0	144814.930	3.0
1453.9980	26.00	-4.10	44664.061	2.0	51539.770	2.0
1454.0078	17.00	-2.25	84688.637	.5	91564.300	.5
1454.0531	10.00	-4.04	163657.268	1.0	170532.717	2.0
1454.1120	28.01	-1.58	126738.820	1.5	133613.990	1.5
1454.1293	18.00	-2.07	118459.662	1.0	125334.750	0.0
1454.1332	22.00	-1.86	28882.440	3.0	35757.510	4.0
1454.2516	6.00	-.11	61981.820	1.0	68856.330	1.0
1454.3468	22.00	-2.26	18825.890	1.0	25699.950	2.0
1454.3538	26.00	-3.26	47092.693	3.0	53966.720	2.0
1454.3807	24.00	-2.88	47772.300	1.0	54646.200	0.0
1454.4101	17.00	-3.34	95313.749	1.5	102187.510	2.5
1454.4738	27.00	-2.40	44394.470	3.5	51267.930	4.5
1454.7919	17.00	-2.38	94973.683	.5	101845.640	1.5
1454.8526	7.00	-.99	96750.810	1.5	103622.480	.5
1454.9340	26.00	-4.94	47812.104	4.0	54683.390	4.0
1454.9522	28.01	-3.05	128822.230	1.5	135693.430	2.5
1454.9628	27.00	-4.85	45924.980	3.5	52796.130	2.5
1454.9742	28.00	-1.90	49403.420	1.0	56274.516	2.0
1454.9903	25.02	-.46	209323.030	6.5	216194.050	5.5
1455.0718	18.00	-4.21	118906.665	2.0	125777.300	1.0
1455.1216	28.01	-4.51	115209.850	3.5	122080.250	2.5
1455.1661	6.00	-2.33	78529.620	3.0	85399.810	2.0
1455.2741	25.02	-.59	208650.540	3.5	215520.220	2.5
1455.2826	27.00	-2.60	44183.340	4.5	51052.980	3.5
1455.3080	24.00	-4.95	44080.900	2.0	50950.420	3.0
1455.3186	22.00	-4.76	27665.570	1.0	34535.040	2.0
1455.3694	6.00	-4.70	81769.790	2.0	88639.020	1.0
1455.3843	18.01	-1.46	202544.320	2.5	209413.480	1.5
1455.4773	7.00	-4.94	104984.340	.5	111853.061	1.5
1455.5199	25.00	-3.22	37420.240	5.5	44288.760	4.5
1455.5199	28.01	-4.14	128827.150	3.5	135695.670	4.5
1455.5517	20.01	-1.66	83458.080	3.5	90326.450	3.5
1455.5517	20.01	-.12	83458.080	3.5	90326.450	4.5
1455.5517	20.01	-.23	83458.080	2.5	90326.450	3.5
1455.5813	28.01	-4.94	128818.410	6.5	135686.640	7.5
1455.6725	15.00	-3.50	69894.600	1.5	76762.400	.5
1455.7106	27.00	-3.97	45904.680	1.5	52772.300	2.5
1455.7130	17.00	-.88	85735.091	1.5	92602.700	.5
1455.8179	14.00	-2.16	57017.496	2.0	63884.610	1.0
1455.8400	6.00	-4.01	81769.790	2.0	88636.800	2.0
1455.8463	25.00	-4.90	41403.930	2.5	48270.910	2.5
1455.9057	17.01	-2.10	140259.000	2.0	147125.700	3.0
1455.9439	18.01	-3.44	202149.110	2.5	209015.630	3.5
1455.9650	28.01	-3.62	128827.150	3.5	135693.570	4.5
1455.9726	14.00	-1.61	56978.256	1.0	63844.640	0.0
1455.9947	28.01	-4.63	128827.150	3.5	135693.430	2.5
1456.0753	29.01	-4.01	139119.500	3.0	145985.400	2.0
1456.0796	24.00	-2.60	35572.940	2.0	42438.820	2.0
1456.0838	23.01	-3.34	65816.200	1.0	72682.060	2.0
1456.0997	18.00	-2.91	116942.815	3.0	123808.600	2.0
1456.2450	29.01	-.75	139710.200	2.0	146575.300	2.0
1456.3044	27.00	-4.23	47393.930	2.5	54258.750	2.5
1456.3383	28.01	-2.64	113407.310	2.5	120271.970	2.5
1456.4890	16.00	-2.94	74972.250	4.0	81836.200	3.0
1456.4890	16.00	-1.76	74972.250	4.0	81836.200	4.0
1456.4890	16.00	-.90	74972.250	4.0	81836.200	5.0
1456.4932	25.01	-4.94	72648.800	4.0	79512.730	3.0
1456.4979	14.00	-3.42	57798.072	2.0	64661.980	3.0
1456.5208	30.02	-4.83	257962.500	2.0	264826.300	1.0
1456.5985	26.00	-4.66	44285.436	2.0	51148.870	3.0
1456.6142	6.00	-3.27	78340.280	1.0	85203.640	2.0
1456.6354	28.01	-3.27	113408.710	1.5	120271.970	2.5
1456.6905	16.00	-2.64	74973.200	3.0	81836.200	2.0
1456.6905	16.00	-1.62	74973.200	3.0	81836.200	3.0
1456.6905	16.00	-1.06	74973.200	3.0	81836.200	4.0
1456.7521	28.01	-4.92	67031.020	.5	73893.730	1.5
1456.8398	26.00	-4.03	48928.423	2.0	55790.720	3.0
1456.8644	28.00	-1.35	44262.619	2.0	51124.800	3.0
1456.8687	26.00	-3.66	47693.289	3.0	54555.450	4.0
1456.9305	16.00	-2.64	74974.330	2.0	81836.200	1.0
1456.9305	16.00	-1.64	74974.330	2.0	81836.200	2.0
1456.9305	16.00	-1.26	74974.330	2.0	81836.200	3.0
1456.9655	28.00	-3.61	48715.200	4.0	55576.905	3.0
1457.0090	28.01	-2.50	113407.310	2.5	120268.810	3.5
1457.0324	14.00	-1.16	57450.580	3.0	64311.970	4.0
1457.1173	16.00	-1.79	74975.210	1.0	81836.200	1.0
1457.1173	16.00	-1.49	74975.210	1.0	81836.200	2.0
1457.2187	26.00	-4.15	40894.972	2.0	47755.485	3.0
1457.2254	26.00	-4.69	47271.999	1.0	54132.480	1.0
1457.2427	16.00	-1.79	74975.800	0.0	81836.200	1.0
1457.3346	26.00	-4.73	48516.150	1.0	55376.117	1.0
1457.3850	23.00	-4.07	15103.770	4.5	21963.500	3.5
1457.4190	22.00	-2.65	18061.540	1.0	24921.110	1.0
1457.4192	26.00	-2.64	44243.668	5.0	51103.237	5.0
1457.4230	26.00	-4.17	47377.909	4.0	54237.460	4.0
1457.4551	18.01	-1.94	194861.270	2.5	201720.670	1.5
1457.5288	26.00	-4.39	46888.494	2.0	53747.547	3.0
1457.5613	29.01	-2.75	139119.500	3.0	145978.400	3.0
1457.5919	22.00	-3.53	36000.144	4.0	42858.900	3.0
1457.6336	28.01	-2.90	105861.190	2.5	112719.750	3.5
1457.6336	28.01	-4.73	128837.110	5.5	135695.670	4.5
1457.6631	26.00	-3.07	46889.126	4.0	53747.547	3.0
1457.6699	26.00	-4.44	44511.795	2.0	51370.184	2.0
1457.6789	17.00	-4.36	94314.206	1.5	101172.553	1.5
1457.6910	7.00	-.75	97805.810	1.5	104664.100	1.5
1457.6995	18.01	-2.90	195297.610	1.5	202155.860	2.5
1457.7121	17.00	-1.88	84485.309	1.5	91343.500	2.5
1457.7356	23.01	-2.57	65816.200	1.0	72674.280	2.0
1457.7469	20.00	-2.32	38192.392	1.0	45050.419	2.0
1457.7520	18.00	-2.59	107289.747	2.0	114147.750	1.0
1457.7696	28.01	-1.60	114942.420	1.5	121800.340	1.5
1457.8206	24.00	-3.22	46783.060	4.0	53640.740	3.0
1457.9269	27.00	-4.88	21920.090	4.5	28777.270	3.5
1458.0033	7.00	-4.32	104996.240	1.5	111853.061	1.5
1458.0311	28.01	.08	122441.220	4.5	129297.910	3.5
1458.0331	20.00	-1.49	38192.392	1.0	45049.073	1.0
1458.0800	28.01	-4.66	128837.110	5.5	135693.570	5.5
1458.1056	23.00	-4.24	15264.830	5.5	22121.170	4.5
1458.1350	14.00	-4.31	57541.918	1.0	64398.120	2.0
1458.1672	8.01	-.42	248425.350	.5	255281.400	.5
1458.1885	28.00	-.82	49327.560	3.0	56183.510	4.0
1458.1949	28.01	-4.82	114836.630	3.5	121692.550	4.5
1458.2289	28.01	-4.14	106369.300	1.5	113225.060	.5
1458.2991	18.01	-1.94	205221.470	1.5	212076.900	2.5
1458.3140	27.00	-2.32	27497.060	2.5	34352.420	1.5
1458.3219	17.00	-2.11	83894.037	3.5	90749.360	2.5
1458.3459	6.00	-2.03	81769.790	2.0	88625.000	3.0
1458.6204	7.00	-3.97	103667.130	1.5	110521.050	1.5
1458.6353	27.00	-4.23	46002.830	2.5	52856.680	3.5
1458.7417	14.00	-2.31	57450.580	3.0	64303.930	3.0
1458.8464	28.00	-1.26	45418.858	2.0	52271.716	2.0
1459.0930	15.00	-4.32	74271.800	1.5	81123.500	2.5
1459.1910	6.00	-1.72	80782.510	1.0	87633.750	2.0
1459.2442	26.02	-4.74	219655.550	2.0	226506.540	1.0
1459.2513	14.00	-1.43	48020.074	1.0	54871.031	1.0
1459.2846	8.02	-1.87	370524.200	2.0	377375.000	2.0
1459.3145	14.01	-2.20	112394.820	1.5	119245.480	.5
1459.3490	20.00	-.42	35896.889	4.0	42747.387	3.0
1459.3780	26.00	-2.95	46889.126	4.0	53739.488	5.0
1459.4253	18.00	-1.62	119444.880	2.0	126295.020	3.0
1459.4509	18.00	-3.08	119444.880	2.0	126294.900	3.0
1459.4843	17.00	-3.20	84688.637	.5	91538.500	1.5
1459.5553	28.01	-4.65	128837.110	5.5	135686.640	6.5
1459.5813	14.00	-2.18	57798.072	2.0	64647.480	3.0
1459.5830	18.00	-.83	114805.180	2.0	121654.580	2.0
1459.5981	10.00	-3.65	163707.721	1.0	170557.050	1.0
1459.6383	18.00	-3.46	114805.180	2.0	121654.320	3.0
1459.6405	26.00	-4.54	47834.260	3.0	54683.390	4.0
1459.6882	18.00	-2.27	116660.054	1.0	123508.960	0.0
1459.7194	24.00	-1.10	44186.920	2.0	51035.680	2.0
1459.7279	28.01	-4.16	99132.780	5.5	105981.500	4.5
1459.7304	14.00	-3.45	57798.072	2.0	64646.780	2.0
1459.7385	6.00	-4.01	78340.280	1.0	85188.950	1.0
1459.7831	12.00	-1.10	54248.809	0.0	61097.270	1.0
1459.7833	27.00	-4.03	48317.170	3.5	55165.630	2.5
1459.7852	10.00	-4.18	163708.599	2.0	170557.050	1.0
1459.8345	18.00	.33	114805.180	2.0	121653.400	3.0
1459.8409	7.00	-.84	97805.810	1.5	104654.000	.5
1459.8792	9.00	-1.76	129607.070	.5	136455.080	1.5
1459.9198	18.01	.16	202420.490	.5	209268.310	1.5
1459.9539	17.00	-2.94	87979.490	3.5	94827.150	2.5
1460.0161	7.00	-3.92	104654.000	.5	111501.368	1.5
1460.0553	12.00	-1.23	54250.086	1.0	61097.270	1.0
1460.0553	12.00	-.92	54250.086	1.0	61097.270	2.0
1460.0668	14.00	-2.83	57450.580	3.0	64297.710	4.0
1460.1150	12.00	-2.39	52556.206	0.0	59403.110	1.0
1460.1212	26.00	.57	47005.455	5.0	53852.330	4.0
1460.1393	14.00	-3.21	57450.580	3.0	64297.370	3.0
1460.1398	26.00	-4.01	45220.662	3.0	52067.450	2.0
1460.2097	21.00	-4.78	33056.190	3.5	39902.650	3.5
1460.2225	29.01	-.58	139710.200	2.0	146556.600	3.0
1460.2473	14.00	-2.57	57017.496	2.0	63863.780	2.0
1460.3744	26.00	-4.29	25091.620	0.0	31937.308	1.0
1460.4145	17.01	-1.23	138623.000	1.0	145468.500	1.0
1460.4593	7.00	-.67	97770.150	.5	104615.440	1.5
1460.4742	6.00	-1.66	81769.790	2.0	88615.010	1.0
1460.4905	28.00	-2.24	49327.560	3.0	56172.704	3.0
1460.5472	7.00	-1.99	107445.622	1.5	114290.500	2.5
1460.5500	26.00	-4.65	47755.485	3.0	54600.350	3.0
1460.6185	12.00	-2.40	54252.726	2.0	61097.270	1.0
1460.6185	12.00	-1.40	54252.726	2.0	61097.270	2.0
1460.6185	12.00	-.48	54252.726	2.0	61097.270	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1460.6192	7.00	-3.49	105008.520	2.5	111853.061	1.5
1460.6983	23.01	-4.83	30306.400	3.0	37150.570	4.0
1460.7133	13.01	-1.70	139588.700	4.0	146432.800	4.0
1460.7133	13.01	-1.84	139588.700	4.0	146432.800	4.0
1460.7133	13.01	-.07	139588.700	4.0	146432.800	5.0
1460.7133	13.01	-4.26	139588.700	4.0	146432.800	5.0
1460.7133	13.01	-3.17	139588.700	4.0	146432.800	5.0
1460.7133	13.01	-.07	139588.700	4.0	146432.800	5.0
1460.7133	13.01	-3.46	139588.700	5.0	146432.800	4.0
1460.7133	13.01	-1.71	139588.700	5.0	146432.800	5.0
1460.7133	13.01	-1.82	139588.700	5.0	146432.800	5.0
1460.7133	13.01	.01	139588.700	5.0	146432.800	6.0
1460.7133	13.01	-.17	139588.700	3.0	146432.800	4.0
1460.7303	24.00	-2.77	47974.530	3.0	54818.550	2.0
1460.7346	15.00	-1.81	68760.600	.5	75104.600	.5
1460.7631	7.00	-1.96	107182.788	1.5	114026.654	.5
1460.7645	25.02	-.38	208819.640	3.5	215663.500	3.5
1460.8840	29.01	-3.86	139142.100	2.0	145985.400	2.0
1460.8883	28.00	-2.54	51124.800	3.0	57968.080	3.0
1460.9779	28.01	-4.31	113407.310	2.5	120250.170	3.5
1460.9950	25.00	-4.81	50863.050	1.5	57705.830	.5
1461.2043	23.01	-4.61	66303.880	3.0	73145.680	3.0
1461.2043	28.01	-3.90	108368.050	2.5	115209.850	3.5
1461.2331	26.00	-4.75	46727.055	2.0	53568.720	2.0
1461.2477	28.00	-3.11	48735.308	2.0	55576.905	3.0
1461.3260	9.02	-4.75	460141.630	2.5	466982.860	2.5
1461.3344	28.00	-2.73	49032.589	2.0	55873.780	2.0
1461.3495	27.00	-4.83	46502.150	.5	53343.270	1.5
1461.3602	28.01	-2.58	128837.110	5.5	135678.180	6.5
1461.5225	18.02	-4.52	239193.480	1.0	246033.790	2.0
1461.5580	12.00	-1.22	49346.729	1.0	56186.873	0.0
1461.6615	28.01	-4.55	128853.910	4.5	135693.570	5.5
1461.6828	28.01	-3.82	128853.870	2.5	135693.430	2.5
1461.6914	28.01	-4.98	128853.910	4.5	135693.430	3.5
1461.7192	6.00	-4.05	82251.710	0.0	89091.100	1.0
1461.7316	26.00	-4.20	44022.518	4.0	50861.850	3.0
1461.7374	7.00	-2.69	104221.600	1.5	111060.905	.5
1461.7470	27.00	-4.98	48443.760	2.5	55283.020	2.5
1461.8367	28.01	-2.25	133169.920	3.5	140008.760	3.5
1461.9800	23.00	-1.86	31268.150	3.5	38106.320	2.5
1462.1189	26.00	-3.94	47420.000	2.0	54257.520	2.0
1462.1729	7.00	-4.38	104664.100	1.5	111501.368	1.5
1462.1816	22.00	-1.49	37743.933	3.0	44581.160	2.0
1462.2280	6.00	-3.78	81769.790	2.0	88606.800	3.0
1462.2558	6.00	-1.95	78148.090	2.0	84984.970	3.0
1462.3264	26.00	-3.56	53840.680	6.0	60677.230	5.0
1462.3585	13.01	-.39	142362.800	2.0	149199.200	3.0
1462.3585	13.01	-1.29	142362.800	3.0	149199.200	3.0
1462.3799	29.01	-2.82	139142.100	2.0	145978.400	3.0
1462.3842	18.02	-4.35	239193.480	1.0	246029.760	1.0
1462.3906	28.01	-1.88	133169.920	3.5	140006.170	4.5
1462.5254	18.01	-1.42	183675.570	3.5	190511.190	2.5
1462.5767	28.01	-3.50	130691.350	1.5	137526.730	2.5
1462.5874	27.00	-4.74	48571.770	.5	55407.100	1.5
1462.6666	6.00	-2.87	81769.790	2.0	88604.750	2.0
1462.6730	17.00	-.26	91538.500	1.5	98373.430	2.5
1462.6944	7.00	-1.58	96787.650	1.5	103622.480	.5
1462.7714	17.00	-.54	91538.500	1.5	98372.970	1.5
1462.8292	29.01	-1.80	139741.100	3.0	146575.300	2.0
1462.8357	6.00	-.62	71364.900	1.0	78199.070	2.0
1462.8507	15.01	-.66	111508.500	0.0	118342.600	1.0
1462.9363	6.00	-3.17	82251.710	0.0	89085.410	1.0
1462.9533	6.00	-2.47	78116.740	1.0	84950.360	2.0
1463.0313	20.00	-1.90	38219.118	2.0	45052.374	3.0
1463.0476	28.01	-4.89	128862.490	4.5	135695.670	4.5
1463.0624	18.00	-2.64	116999.389	2.0	123832.500	3.0
1463.0690	28.01	-4.10	127219.970	3.5	134053.050	2.5
1463.1183	18.01	-2.91	202544.320	2.5	209377.170	2.5
1463.1739	18.00	-2.19	114821.990	3.0	121654.580	2.0
1463.1975	6.00	-2.59	80801.270	2.0	87633.750	2.0
1463.2018	22.01	-2.14	25193.040	2.5	32025.500	2.5
1463.2018	19.00	-2.27	27450.690	.5	34283.150	1.5
1463.2048	26.00	-4.67	44166.240	3.0	50998.686	2.0
1463.2296	18.00	-.95	114821.990	3.0	121654.320	3.0
1463.2298	26.00	-3.63	47008.351	5.0	53840.680	6.0
1463.2553	28.01	-3.68	130730.530	2.5	137562.740	3.5
1463.2553	55.00	-3.00	22588.890	0.0	29422.967	0.0
1463.2832	19.00	-2.57	27450.690	.5	34282.770	.5
1463.3232	18.00	-1.79	118651.447	1.0	125483.340	2.0
1463.4202	28.01	-3.60	109038.840	1.5	115870.280	2.5
1463.4266	18.00	-.89	114821.990	3.0	121653.400	3.0
1463.4266	18.00	.46	114821.990	3.0	121653.400	4.0
1463.4500	20.00	-1.71	38219.118	2.0	45050.419	2.0
1463.4588	27.00	-4.16	48334.370	1.5	55165.630	2.5
1463.4920	18.00	-2.36	116942.815	3.0	123773.920	3.0
1463.4937	26.00	-4.55	38678.015	2.0	45509.112	1.0
1463.4974	28.01	-4.80	128862.490	4.5	135693.570	4.5
1463.4974	28.01	-4.25	128862.490	4.5	135693.570	5.5
1463.5059	28.01	-2.49	128855.600	6.5	135686.640	7.5
1463.5059	28.01	-4.57	128855.600	6.5	135686.640	6.5
1463.5301	28.00	-1.23	44475.158	2.0	51306.085	3.0
1463.5869	26.00	-2.70	47136.058	2.0	53966.720	2.0
1463.6216	28.01	-2.09	122441.220	4.5	129271.720	3.5
1463.6517	6.00	-2.99	78104.980	0.0	84935.340	1.0
1463.6966	28.01	-2.18	114970.190	.5	121800.340	1.5
1463.7009	6.00	-.07	71385.380	2.0	78215.510	3.0
1463.7384	20.00	-1.95	38219.118	2.0	45049.073	1.0
1463.7995	28.01	-4.39	114869.350	1.5	121699.020	1.5
1463.8595	27.00	-2.99	46872.740	3.5	53702.130	3.5
1463.8724	6.00	-4.54	78340.280	1.0	85169.610	0.0
1463.9092	26.00	-4.53	45720.662	3.0	52049.820	2.0
1463.9536	14.00	-2.90	50499.838	2.0	57328.789	1.0
1463.9581	28.01	-3.47	108763.320	.5	115592.250	1.5
1464.0139	28.01	-4.12	128867.000	3.5	135695.670	4.5
1464.0466	10.00	-3.00	162899.113	2.0	169727.630	1.0
1464.0764	7.00	-2.52	107445.622	1.5	114274.000	2.5
1464.1146	26.00	-2.63	51691.980	3.0	58520.180	4.0
1464.1833	28.01	-4.69	130691.350	1.5	137519.230	2.5
1464.2731	18.00	-2.10	116999.389	2.0	123826.850	2.0
1464.3675	14.00	-2.58	57468.239	2.0	64295.260	3.0
1464.4385	28.01	-4.54	99154.810	4.5	105981.500	4.5
1464.4642	28.01	-3.82	128867.000	3.5	135693.570	4.5
1464.4943	28.01	-3.87	128867.000	3.5	135693.430	3.5
1464.5608	7.01	.07	196711.540	2.0	203537.660	1.0
1464.5629	25.02	.43	209091.410	5.5	215917.520	4.5
1464.6101	18.01	-3.92	189040.870	1.5	195866.760	1.5
1464.6151	26.00	-4.98	48928.423	2.0	55754.290	2.0
1464.7153	29.01	-.57	141733.900	2.0	148559.300	2.0
1464.7217	24.00	-1.72	50557.560	4.0	57382.930	5.0
1464.7775	28.01	-4.37	105861.190	2.5	112686.300	2.5
1464.7887	26.00	-2.56	46720.824	4.0	53545.882	3.0
1464.8019	10.00	-2.88	163707.721	1.0	170532.717	2.0
1464.8033	27.00	-4.59	48443.760	2.5	55268.750	3.5
1464.9213	22.00	-1.69	28828.510	2.0	35652.950	3.0
1464.9419	12.00	-2.90	54192.256	3.0	61016.600	2.0
1464.9419	12.00	-1.57	54192.256	3.0	61016.600	3.0
1464.9419	12.00	-1.76	54192.256	3.0	61016.600	3.0
1464.9419	12.00	-.29	54192.256	3.0	61016.600	4.0
1464.9501	12.00	-1.52	54192.294	2.0	61016.600	2.0
1464.9501	12.00	-.51	54192.294	2.0	61016.600	3.0
1464.9501	12.00	-2.09	54192.294	2.0	61016.600	3.0
1464.9591	12.00	-.62	54192.336	1.0	61016.600	2.0
1464.9904	10.00	-3.21	163708.599	2.0	170532.717	2.0
1464.9943	18.00	.22	113426.050	2.0	120250.150	3.0
1465.0093	24.00	-3.84	24282.340	4.0	31106.370	4.0
1465.0705	26.00	-3.67	46744.975	3.0	53568.720	2.0
1465.0845	28.01	-4.36	128869.890	5.5	135693.570	4.5
1465.1017	18.01	-2.23	204937.800	4.5	211761.400	3.5
1465.1060	18.01	-.59	204937.800	4.5	211761.380	4.5
1465.1102	27.00	-4.85	48753.720	1.5	55577.280	1.5
1465.1478	28.00	-3.33	42954.234	2.0	49777.619	3.0
1465.1663	26.00	.28	43633.491	2.0	50456.790	3.0
1465.3207	28.01	-4.49	128855.600	6.5	135678.180	6.5
1465.4324	25.00	-4.52	41403.930	2.5	48225.990	3.5
1465.4883	15.00	-3.80	74301.700	2.5	81123.500	2.5
1465.7009	27.00	-3.56	46375.170	1.5	53195.980	2.5
1465.7226	28.00	-1.63	43933.428	2.0	50754.137	2.0
1465.7375	18.01	-3.51	184191.710	.5	191012.350	1.5
1465.7697	26.00	-3.73	51076.680	4.0	57897.170	5.0
1465.7804	28.01	-1.01	99040.750	1.5	105861.190	2.5
1465.7847	28.01	-3.46	103025.580	2.5	109846.000	3.5
1465.7996	26.00	-4.66	48304.623	2.0	55124.974	3.0
1465.8084	24.00	-3.22	35618.510	1.0	42438.820	2.0
1465.8460	26.00	-3.59	47555.584	1.0	54375.719	2.0
1465.9051	26.00	-4.58	27543.000	1.0	34362.860	1.0
1465.9330	9.00	-1.52	129607.070	.5	136426.800	1.5
1465.9373	28.01	-4.64	122047.290	3.5	128867.000	3.5
1465.9416	26.01	-4.15	72619.610	2.5	79439.300	3.5
1465.9610	29.01	-.60	141542.100	2.0	148361.700	1.0
1466.0754	22.00	-4.93	20795.599	5.0	27614.667	4.0
1466.1162	26.00	-3.84	53545.882	3.0	60364.760	3.0
1466.1203	26.00	-4.47	44551.325	3.0	51370.184	2.0
1466.1244	18.01	-.53	182222.030	1.5	189040.870	1.5
1466.1545	29.01	-.63	139741.100	3.0	146559.800	4.0
1466.1614	14.00	-3.30	57798.072	2.0	64616.740	2.0
1466.1747	26.00	-4.52	33412.706	3.0	40231.312	2.0
1466.1760	6.00	-3.03	78116.740	1.0	84935.340	1.0
1466.2169	18.01	-1.32	183914.560	.5	190732.970	.5
1466.2324	7.00	-3.69	104683.030	2.5	111501.368	1.5
1466.2556	23.00	-4.14	17116.920	3.5	23935.150	2.5
1466.2949	7.00	-1.97	107253.106	2.5	114071.153	1.5
1466.3136	27.00	-3.99	48571.770	.5	55389.730	1.5
1466.4018	22.00	-3.90	42206.880	2.0	49024.430	3.0
1466.4104	22.00	-3.04	18818.230	0.0	25635.740	1.0
1466.4805	22.00	-4.03	11776.806	4.0	18593.990	3.0
1466.5395	23.00	-9.01	9544.540	.5	16361.450	1.5
1466.5739	28.01	-4.08	128869.890	5.5	135686.640	6.5
1466.6776	17.00	-1.66	84132.262	2.5	90948.530	1.5
1466.7049	18.00	-4.90	116999.389	2.0	123815.530	1.0
1466.7331	23.02	-3.93	155569.100	2.5	162385.110	3.5
1466.7551	22.00	-3.77	27355.042	1.0	34170.950	0.0
1466.8257	28.01	-3.36	113407.310	2.5	120222.890	1.5
1466.8429	29.01	-.64	139741.100	3.0	146556.600	3.0
1466.9031	24.00	-2.28	50557.560	4.0	57372.780	4.0
1466.9074	28.01	-4.45	122047.290	3.5	128862.490	4.5
1466.9161	9.00	-4.94	129772.830	2.5	136587.990	1.5
1466.9477	22.00	-4.54	39715.437	3.0	46530.450	4.0
1466.9957	55.00	-2.16	22588.890	0.0	29405.543	0.0
1467.0280	22.00	-2.92	38670.710	4.0	45485.350	5.0
1467.0646	6.00	-4.72	81769.790	2.0	88584.260	2.0
1467.1270	28.01	-3.38	113408.710	1.5	120222.890	1.5
1467.1533	26.00	-3.15	47452.702	4.0	54266.760	5.0
1467.2110	26.00	-2.63	47017.170	3.0	53830.960	3.0
1467.2325	6.00	-1.14	71385.380	2.0	78199.070	2.0
1467.2653	26.00	-4.47	44415.057	4.0	51228.595	5.0
1467.2978	26.00	-2.71	44166.240	3.0	50979.627	4.0
1467.2997	7.00	-4.58	107445.622	1.5	114259.000	1.5
1467.3832	9.00	-1.25	129607.070	.5	136420.060	.5
1467.4048	23.00	-8.47	9636.960	1.5	16449.850	2.5
1467.5244	28.00	-2.75	43464.019	1.0	50276.354	0.0
1467.5341	7.01	-4.55	202861.360	3.0	209673.650	2.0
1467.6784	9.00	-3.72	129772.830	2.5	136584.450	2.5
1467.7624	28.01	-2.36	110021.920	4.5	116833.150	4.5
1467.7693	28.00	-1.27	43654.974	3.0	50466.172	4.0
1467.7765	28.00	-4.56	43933.428	2.0	50744.593	1.0
1467.8012	24.00	-4.36	38537.680	5.0	45348.730	6.0
1467.8034	29.01	-3.82	128853.300	2.0	135664.340	1.0
1467.8191	26.00	-3.62	44022.518	4.0	50833.485	5.0
1467.9133	10.01	-2.59	276511.820	.5	283322.350	1.5
1467.9607	18.01	-.65	204951.090	3.5	211761.400	3.5
1467.9620	12.00	-1.24	54250.086	1.0	61060.390	2.0
1467.9651	18.01	-2.37	204951.090	3.5	211761.380	4.5
1468.0297	18.01	-4.96	201781.790	2.5	208591.780	1.5
1468.0340	28.01	-2.53	99559.330	2.5	106369.300	1.5
1468.0401	14.00	-3.02	57541.918	1.0	64351.860	1.0
1468.0599	22.00	-3.78	18825.890	1.0	25635.740	1.0
1468.0939	26.00	-3.59	53739.488	5.0	60549.180	5.0
1468.1073	7.00	-.33	97805.810	1.5	104615.440	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1468.1569	7.00	-2.60	103735.450	2.5	110544.850	2.5
1468.1976	18.00	-4.19	116999.389	2.0	123808.600	2.0
1468.3143	17.00	-.47	91564.300	.5	98372.970	1.5
1468.3208	18.01	-1.19	194800.180	4.5	201608.820	3.5
1468.3963	28.01	-3.75	128869.890	5.5	135678.180	6.5
1468.4588	29.01	-3.38	139119.500	3.0	145927.500	2.0
1468.4631	18.00	-1.91	116660.054	1.0	123468.034	1.0
1468.5192	27.00	-4.49	47128.960	2.5	53936.680	2.5
1468.5313	12.00	-1.71	54252.726	2.0	61060.390	2.0
1468.6033	22.00	-1.93	41780.950	4.0	48588.280	3.0
1468.6141	28.01	-3.54	129782.070	3.5	136589.350	3.5
1468.7565	28.01	-4.15	122047.290	3.5	128853.910	4.5
1468.8642	26.00	-4.04	44760.739	1.0	51566.860	1.0
1469.0134	28.01	-2.73	130730.530	2.5	137535.960	3.5
1469.0177	22.00	-1.17	28952.100	4.0	35757.510	4.0
1469.0565	28.01	-2.46	130757.510	4.5	137562.740	3.5
1469.0824	27.00	-2.32	44394.470	3.5	51199.580	3.5
1469.1278	23.00	-5.55	13801.530	1.5	20606.430	.5
1469.2012	29.01	-4.76	109275.900	3.0	116080.460	3.0
1469.2616	27.00	-3.61	45971.190	3.5	52775.470	4.5
1469.3059	26.00	-1.75	47755.485	3.0	54559.560	3.0
1469.3178	18.00	-.49	113426.050	2.0	120230.070	2.0
1469.3217	26.00	-4.28	44415.057	4.0	51219.059	3.0
1469.3631	23.00	-2.65	31200.120	1.5	38003.930	1.5
1469.3668	14.00	-2.75	56780.427	1.0	63584.220	1.0
1469.3739	18.00	-1.75	113426.050	2.0	120229.810	3.0
1469.3912	24.00	-3.40	50557.560	4.0	57361.240	3.0
1469.4925	55.00	-.10	11732.308	0.0	18537.378	0.0
1469.5144	7.00	-1.68	96864.020	2.5	103667.130	1.5
1469.6699	22.00	-3.62	34535.040	2.0	41337.430	2.0
1469.6958	6.00	-2.86	78148.090	2.0	84950.360	2.0
1469.7567	12.00	-2.67	53134.642	2.0	59936.630	1.0
1469.9486	15.00	-2.04	65585.000	2.5	72386.100	2.5
1469.9903	26.00	-4.10	46744.975	3.0	53545.882	3.0
1470.0178	25.00	-1.47	47659.520	2.5	54460.300	2.5
1470.0290	12.00	-2.09	53134.642	2.0	59935.370	2.0
1470.0290	12.00	-2.90	53134.642	2.0	59935.370	3.0
1470.0290	12.00	-.88	53134.642	2.0	59935.370	3.0
1470.1518	27.00	-2.49	41918.410	3.5	48718.570	2.5
1470.1988	14.00	-2.12	57583.657	4.0	64383.600	4.0
1470.2390	14.00	-1.38	56690.903	2.0	63490.660	3.0
1470.3637	26.00	-4.86	44551.325	3.0	51350.505	4.0
1470.3998	14.00	-2.74	56780.427	1.0	63579.440	0.0
1470.5028	14.00	-2.25	56690.903	2.0	63489.440	2.0
1470.6211	25.00	-4.64	56490.790	2.5	63288.780	3.5
1470.6642	26.00	-3.83	47693.289	3.0	54491.080	3.0
1470.7405	20.00	-2.16	38192.392	1.0	44989.830	2.0
1470.8122	14.00	-1.29	56690.903	2.0	63488.010	3.0
1470.8873	23.01	-2.91	65885.300	2.0	72682.060	2.0
1470.8959	10.02	-4.52	391414.020	2.0	398210.740	3.0
1470.9502	26.00	-3.86	44664.061	2.0	51460.530	3.0
1471.0085	28.01	-2.65	130730.530	2.5	137526.730	2.5
1471.0128	28.01	-3.25	113407.310	2.5	120203.490	2.5
1471.0431	26.00	-4.37	53568.720	2.0	60364.760	3.0
1471.0924	22.00	-3.78	41928.528	2.0	48724.340	2.0
1471.1535	23.00	-5.29	13810.900	.5	20606.430	.5
1471.1686	9.00	-3.51	119081.820	.5	125877.280	1.5
1471.2336	22.01	-2.27	24961.340	1.5	31756.500	1.5
1471.3007	22.00	-4.55	27740.190	2.0	34535.040	2.0
1471.3068	26.00	-4.95	47271.999	1.0	54066.821	2.0
1471.3159	28.01	-4.86	113408.710	1.5	120203.490	2.5
1471.3332	17.01	-2.67	140259.000	2.0	147053.700	2.0
1471.3614	18.01	-1.72	204937.800	4.5	211732.370	4.5
1471.3852	18.01	-4.14	204937.800	4.5	211732.260	5.5
1471.4090	24.00	-3.56	47877.550	1.0	54671.900	1.0
1471.6473	20.00	-1.05	38259.124	3.0	45052.374	3.0
1471.7057	28.01	-4.33	130730.530	2.5	137523.510	3.5
1471.7787	14.00	-4.01	57198.027	3.0	63990.670	2.0
1471.8119	27.00	-3.33	45971.190	3.5	52763.680	3.5
1471.8314	23.01	-3.06	66158.600	4.0	72951.000	4.0
1471.9129	14.00	-1.54	56978.256	1.0	63770.280	1.0
1471.9202	9.00	-4.00	129659.500	3.5	136451.490	2.5
1471.9463	28.01	-3.29	113407.310	2.5	120199.180	1.5
1471.9632	18.00	-2.33	111667.870	0.0	118459.662	1.0
1472.0709	20.00	-2.36	38259.124	3.0	45050.419	2.0
1472.1803	17.00	-1.42	90948.530	1.5	97739.320	1.5
1472.2456	14.00	-2.75	57295.881	0.0	64086.370	1.0
1472.2497	28.01	-4.45	113408.710	1.5	120199.180	1.5
1472.3451	10.01	-.42	301948.000	1.5	308738.030	1.5
1472.4579	26.00	-4.31	47177.210	1.0	53966.720	2.0
1472.5100	55.00	-2.16	22631.830	0.0	29422.955	0.0
1472.5247	26.00	-2.60	47136.058	2.0	53925.260	1.0
1472.5273	14.00	-2.06	56700.250	1.0	63489.440	2.0
1472.5729	23.01	-2.60	65885.300	2.0	72674.280	2.0
1472.6097	6.00	-4.61	81769.790	2.0	88558.600	1.0
1472.6140	17.00	-3.80	96313.330	1.5	103102.120	1.5
1472.6336	28.01	-4.87	130730.530	2.5	137519.230	2.5
1472.6401	26.01	-4.46	72650.630	4.5	79439.300	3.5
1472.6659	22.00	-2.85	18911.399	2.0	25699.950	2.0
1472.7225	12.01	-1.14	103419.700	2.5	110207.990	1.5
1472.7833	17.00	-4.73	96313.330	1.5	103101.340	2.5
1472.7876	12.01	-2.09	103420.000	1.5	110207.990	1.5
1472.8071	29.01	-1.62	141733.900	2.0	148521.800	1.0
1472.8094	18.01	-2.11	204937.800	4.5	211725.690	3.5
1472.9178	26.01	-4.51	72651.910	3.5	79439.300	3.5
1472.9482	6.00	-3.80	78148.090	2.0	84935.340	1.0
1472.9573	26.00	-4.96	19552.474	1.0	26339.682	2.0
1472.9872	8.01	-1.66	248514.230	1.5	255301.300	2.5
1473.0502	28.01	-3.56	106620.530	3.5	113407.310	2.5
1473.0504	17.00	-3.16	95400.731	2.5	102187.510	2.5
1473.0632	28.01	-4.85	130174.030	1.5	136960.750	2.5
1473.0632	18.01	-1.33	194822.100	3.5	201608.820	3.5
1473.0941	7.00	-1.80	107445.622	1.5	114232.200	1.5
1473.1262	17.00	-1.24	91906.790	2.5	98693.220	2.5
1473.1327	8.02	-.86	370900.600	2.0	377687.000	2.0
1473.1696	25.00	-3.76	37737.220	3.5	44523.450	3.5
1473.1711	17.00	.08	91906.790	2.5	98693.013	3.5
1473.2388	26.00	-4.86	22946.810	1.0	29732.721	1.0
1473.2412	6.00	-2.53	78199.070	2.0	84984.970	3.0
1473.2564	28.01	-3.91	130174.030	1.5	136959.860	2.5
1473.2718	7.00	-2.81	105119.850	1.5	111905.609	2.5
1473.2990	26.00	-3.68	45281.816	2.0	52067.450	2.0
1473.2998	23.00	-4.52	35379.110	3.5	42164.740	3.5
1473.3063	7.00	-3.75	103735.450	2.5	110521.050	1.5
1473.3205	26.00	-3.79	44022.518	4.0	50808.053	4.0
1473.3237	22.00	-1.75	28791.620	1.0	35577.140	2.0
1473.3411	24.00	-4.97	35862.820	4.0	42648.260	3.0
1473.3498	29.01	-2.95	139142.100	2.0	145927.500	2.0
1473.3650	12.01	-1.66	109062.340	3.5	115847.670	3.5
1473.3650	12.01	-.12	109062.340	3.5	115847.670	4.5
1473.3650	12.01	-.23	109062.340	2.5	115847.670	3.5
1473.3715	18.01	-2.72	194996.490	1.5	201781.790	2.5
1473.4078	17.00	-2.26	88188.550	1.5	94973.683	.5
1473.4605	23.00	-2.50	32456.450	1.5	39241.340	2.5
1473.5272	18.00	-1.66	117151.387	1.0	123935.970	1.0
1473.6647	37.00	-1.75	23715.081	0.0	30500.885	0.0
1473.6951	18.01	.12	204977.590	2.5	211761.400	3.5
1473.7375	26.00	-4.01	44551.325	3.0	51334.940	4.0
1473.7451	12.01	-1.40	103420.000	1.5	110203.580	.5
1473.7627	28.00	-3.84	43933.428	2.0	50716.927	1.0
1473.7633	26.00	-1.57	40594.413	4.0	47377.909	4.0
1473.7842	24.00	-3.14	37883.340	2.0	44666.740	1.0
1473.8148	22.00	-2.88	32857.721	3.0	39640.980	3.0
1473.8298	6.00	-.78	71364.900	1.0	78148.090	2.0
1473.9124	10.02	-3.88	391414.020	2.0	398196.830	2.0
1473.9161	18.00	-1.56	106237.597	2.0	113020.390	3.0
1474.2450	18.01	-.07	204951.090	3.5	211732.370	4.5
1474.2601	28.01	-2.87	115081.360	4.5	121862.570	3.5
1474.3015	23.00	-4.13	37285.030	4.5	44066.050	3.5
1474.3319	22.00	-4.05	41943.950	1.0	48724.830	1.0
1474.3406	28.01	-4.11	113408.710	1.5	120189.550	.5
1474.3492	10.02	-3.59	391429.940	3.0	398210.740	3.0
1474.3553	14.00	-2.86	57541.918	1.0	64322.690	0.0
1474.3666	18.01	-1.74	203344.980	1.5	210125.700	2.5
1474.4384	22.00	-3.32	41943.950	1.0	48724.340	2.0
1474.4885	26.00	-4.77	53769.020	4.0	60549.180	5.0
1474.5537	28.01	-3.89	122047.290	3.5	128827.150	3.5
1474.6821	6.00	-2.79	81769.790	2.0	88549.060	1.0
1474.7103	22.00	-4.11	18825.890	1.0	25605.030	0.0
1474.7340	26.00	-3.82	44760.739	1.0	51539.770	2.0
1474.8226	28.00	-2.17	45418.858	2.0	52197.482	3.0
1474.8604	28.01	-3.98	130757.510	4.5	137535.960	3.5
1474.8626	28.01	-3.17	129988.050	2.5	136766.490	2.5
1474.8833	26.00	-3.51	53393.715	4.0	60172.060	4.0
1474.8844	23.00	-2.68	32348.890	.5	39127.230	1.5
1474.8887	28.01	-4.17	130757.510	4.5	137535.830	5.5
1475.0650	22.00	-1.73	41895.150	5.0	48672.660	4.0
1475.1187	26.00	-4.35	44415.057	4.0	51192.320	4.0
1475.1303	28.01	-1.48	115085.360	3.5	121862.570	3.5
1475.1499	25.02	-.56	208743.100	2.5	215520.220	2.5
1475.1564	14.02	-4.64	227665.090	2.0	234442.180	2.0
1475.2106	14.00	-2.85	54185.264	1.0	60962.105	2.0
1475.2415	37.00	.17	12578.950	0.0	19357.501	0.0
1475.2922	26.00	-.52	45333.834	2.0	52110.300	1.0
1475.3153	28.01	-4.48	130184.390	2.5	136960.750	2.5
1475.3197	22.00	-1.49	41995.390	6.0	48771.730	5.0
1475.3240	24.00	-.96	44259.360	3.0	51035.680	2.0
1475.3284	13.01	-1.68	142849.200	3.0	149625.500	2.0
1475.3284	13.01	-3.11	142849.200	3.0	149625.500	3.0
1475.3284	13.01	-4.54	142849.200	3.0	149625.500	4.0
1475.3284	13.01	-2.11	142849.200	4.0	149625.500	3.0
1475.3284	13.01	-1.14	142849.200	4.0	149625.500	3.0
1475.3284	13.01	-2.98	142849.200	4.0	149625.500	4.0
1475.3284	13.01	-3.12	142849.200	4.0	149625.500	4.0
1475.3284	13.01	-1.45	142849.200	5.0	149625.500	4.0
1475.3436	12.01	-1.77	109072.050	4.5	115848.280	4.5
1475.3436	12.01	-.04	109072.050	4.5	115848.280	5.5
1475.3436	12.01	-.13	109072.050	3.5	115848.280	4.5
1475.3906	26.00	-2.96	43922.652	3.0	50698.666	2.0
1475.4568	22.00	-3.80	18145.400	2.0	24921.110	1.0
1475.4656	27.00	-2.64	44394.470	3.5	51170.140	4.5
1475.5091	28.01	-3.66	130184.390	2.5	136959.860	2.5
1475.5352	9.00	-4.37	129659.500	3.5	136434.850	2.5
1475.5807	14.00	-1.67	57468.239	2.0	64243.380	2.0
1475.5875	6.00	-3.11	81769.790	2.0	88544.900	3.0
1475.6224	23.00	-2.05	31228.980	2.5	38003.930	1.5
1475.6986	18.01	-2.94	204951.090	3.5	211725.690	3.5
1475.7136	18.00	-1.52	116999.389	2.0	123773.920	3.0
1475.7182	18.01	-2.12	204951.090	3.5	211725.600	2.5
1475.9012	28.01	-4.47	130757.510	4.5	137531.180	4.5
1475.9012	12.01	-2.47	109074.000	5.5	115847.670	4.5
1475.9056	23.01	-4.61	30267.460	2.0	37041.110	2.0
1475.9164	12.01	-4.21	109074.070	4.5	115847.670	4.5
1475.9164	12.01	-2.56	109074.070	4.5	115847.670	3.5
1476.1453	12.01	-3.45	109072.050	3.5	115844.600	3.5
1476.1453	12.01	-1.91	109072.050	4.5	115844.600	3.5
1476.1453	12.01	-2.02	109072.050	3.5	115844.600	2.5
1476.1998	27.00	-4.24	48217.320	3.5	54989.620	3.5
1476.2359	14.00	-1.63	56978.256	1.0	63750.390	1.0
1476.2761	27.00	-3.39	45688.150	2.5	52460.100	2.5
1476.3502	6.00	-2.91	81769.790	2.0	88541.400	2.0
1476.5460	20.00	-1.54	38219.118	2.0	44989.830	2.0
1476.5486	28.01	-3.88	130765.260	3.5	137535.960	3.5
1476.5900	22.00	-1.46	28882.440	3.0	35652.950	3.0
1476.7035	22.00	-4.62	41337.430	2.0	48107.420	2.0
1476.7484	11.00	-.55	30266.990	.5	37036.774	1.5
1476.7624	26.00	-3.60	47197.000	2.0	53966.720	2.0
1476.7820	9.00	-2.89	129659.500	3.5	136429.130	3.5
1476.8191	6.00	-1.32	78215.510	3.0	84984.970	3.0
1476.9020	28.01	-3.02	122084.790	1.5	128853.870	2.5
1476.9216	24.00	-4.30	48217.830	2.0	54986.820	3.0
1476.9652	18.01	-3.09	202429.840	3.5	209198.630	2.5
1476.9831	14.00	-1.55	48102.323	2.0	54871.031	1.0
1476.9893	22.00	-4.44	42146.390	1.0	48915.070	2.0
1476.9958	24.00	-3.15	47877.550	1.0	54646.200	0.0
1477.1268	14.02	-.43	243868.500	3.0	250636.550	2.0
1477.1368	26.00	-4.92	45281.816	2.0	52049.820	2.0
1477.1732	26.00	-3.58	47106.463	4.0	53874.300	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1477.2359	18.01	-3.78	202155.860	2.5	208923.410	2.5
1477.3188	8.01	-.73	248514.230	1.5	255281.400	.5
1477.5081	26.00	-.43	45061.287	3.0	51827.590	2.0
1477.5918	28.01	-3.20	130765.260	3.5	137531.180	4.5
1477.7097	28.01	-1.18	130470.900	4.5	137236.280	3.5
1477.7119	22.00	-3.93	41959.460	0.0	48724.830	1.0
1477.7250	18.01	-1.52	204996.090	3.5	211761.400	3.5
1477.7293	18.01	.23	204996.090	3.5	211761.380	4.5
1477.8408	26.00	-3.76	51945.310	2.0	58710.090	3.0
1477.8801	24.00	-4.36	48210.040	1.0	54974.640	2.0
1477.8954	27.00	-4.53	23184.230	2.5	29948.760	2.5
1477.9282	29.01	-3.42	110365.980	2.0	117130.360	2.0
1477.9326	9.02	-4.87	384493.060	1.5	391257.420	2.5
1477.9610	6.00	-.71	71352.510	0.0	78116.740	1.0
1477.9688	11.00	-1.25	30272.580	1.5	37036.774	1.5
1477.9732	11.00	-.29	30272.580	1.5	37036.754	2.5
1477.9741	13.02	.49	188877.570	2.5	195641.740	1.5
1478.0112	10.03	-4.24	636475.000	1.5	643239.000	.5
1478.0156	18.00	-4.63	119760.220	1.0	126524.200	0.0
1478.0549	29.01	-2.50	118484.000	3.0	125247.800	2.0
1478.1161	13.02	-.46	188878.220	1.5	195641.740	1.5
1478.1471	7.00	-4.51	107445.622	1.5	114209.000	.5
1478.1620	14.02	.23	227665.090	2.0	234428.400	1.0
1478.1821	12.00	-3.03	53134.642	2.0	59897.860	1.0
1478.1821	12.00	-3.51	53134.642	2.0	59897.860	2.0
1478.2179	26.00	-4.51	48361.920	4.0	55124.974	3.0
1478.2931	6.00	-.15	71385.380	2.0	78148.090	2.0
1478.3106	28.01	-4.54	130197.230	1.5	136959.860	2.5
1478.3150	18.00	-3.09	113426.050	2.0	120188.660	2.0
1478.3627	14.00	-1.84	50566.397	1.0	57328.789	1.0
1478.3850	18.00	-1.74	113426.050	2.0	120188.340	1.0
1478.3894	10.01	-4.84	274409.110	3.5	281171.380	2.5
1478.4638	7.00	-1.70	105143.680	2.5	111905.609	2.5
1478.5642	28.01	-4.65	130765.260	3.5	137526.730	2.5
1478.5774	28.01	-4.41	130801.330	4.5	137562.740	3.5
1478.7916	10.02	-4.31	391450.310	4.0	398210.740	3.0
1478.9536	20.01	-3.35	83540.000	3.5	90299.690	3.5
1478.9536	20.01	-1.81	83540.000	4.5	90299.690	3.5
1478.9536	20.01	-1.92	83540.000	3.5	90299.690	2.5
1478.9908	23.02	-4.86	154480.500	4.5	161240.020	5.5
1479.0135	28.00	-1.62	45281.152	3.0	52040.568	2.0
1479.0586	28.01	-3.42	113407.310	2.5	120166.520	1.5
1479.1046	29.01	-3.64	139142.100	2.0	145901.100	1.0
1479.1542	17.00	-4.61	94468.857	.5	101227.630	.5
1479.2096	17.00	-.96	91660.580	2.5	98419.100	2.5
1479.2556	17.00	-.23	91660.580	2.5	98418.890	3.5
1479.2687	28.01	-3.17	130765.260	3.5	137523.510	3.5
1479.2965	26.00	-3.70	45281.816	2.0	52039.939	1.0
1479.3125	28.01	-4.46	130197.230	1.5	136955.280	.5
1479.3650	28.01	-2.76	113408.710	1.5	120166.520	1.5
1479.5390	14.00	-1.99	54205.090	2.0	60962.105	2.0
1479.5840	24.00	-3.63	48217.830	2.0	54974.640	2.0
1479.5846	26.00	-4.66	48122.913	3.0	54879.720	2.0
1479.7745	28.01	-4.13	122047.290	3.5	128803.230	2.5
1479.8205	28.01	-3.32	130480.550	3.5	137236.280	3.5
1479.8227	24.00	-4.99	35398.020	4.0	42153.740	5.0
1479.8662	12.00	-1.14	54248.809	0.0	61004.330	1.0
1479.8903	17.00	-.81	90948.530	1.5	97703.941	2.5
1479.9186	20.00	-2.47	41679.008	1.0	48434.290	1.0
1479.9186	20.00	-1.83	41679.008	1.0	48434.290	2.0
1479.9563	17.00	-1.38	90948.530	1.5	97703.640	1.5
1479.9585	29.01	-.36	139741.100	3.0	146496.200	3.0
1480.0023	22.00	-1.99	28772.860	0.0	35527.760	1.0
1480.1316	25.01	-4.02	62564.700	1.0	69319.010	0.0
1480.1461	12.00	-1.27	54250.086	1.0	61004.330	1.0
1480.1461	12.00	-.96	54250.086	1.0	61004.330	2.0
1480.2061	24.00	-2.84	47917.930	2.0	54671.900	1.0
1480.2061	28.01	-3.47	130765.260	3.5	137519.230	2.5
1480.3291	26.00	-3.73	47929.981	4.0	54683.390	4.0
1480.4604	17.00	-1.22	87979.490	3.5	94732.300	3.5
1480.4661	14.00	-1.42	57017.496	2.0	63770.280	1.0
1480.4867	28.01	-1.27	100389.520	2.5	107142.210	1.5
1480.4904	22.00	-4.98	39152.057	5.0	45904.730	6.0
1480.5613	18.01	-3.10	199879.320	3.5	206631.670	2.5
1480.5687	18.00	-1.96	117183.654	2.0	123935.970	1.0
1480.5878	26.00	-4.82	43434.585	3.0	50186.814	2.0
1480.6027	26.00	-3.09	32873.623	4.0	39625.784	4.0
1480.6490	28.01	-3.90	108368.050	2.5	115120.000	2.5
1480.6581	18.00	-2.35	117151.387	1.0	123903.295	2.0
1480.6709	26.00	-2.55	47017.170	3.0	53769.020	4.0
1480.6731	6.00	-.74	71364.900	1.0	78116.740	1.0
1480.6906	17.00	-.49	85442.430	1.5	92194.190	1.5
1480.7066	17.00	-3.12	94973.683	.5	101725.370	1.5
1480.7248	12.00	-2.44	54252.726	2.0	61004.330	1.0
1480.7248	12.00	-1.44	54252.726	2.0	61004.330	2.0
1480.7248	12.00	-.52	54252.726	2.0	61004.330	3.0
1480.7411	19.00	-2.57	27397.100	2.5	34148.630	1.5
1480.7937	6.00	-1.69	78199.070	2.0	84950.360	2.0
1480.8025	22.00	-4.40	41457.620	3.0	48208.870	3.0
1480.8639	28.01	-4.05	130208.890	3.5	136959.860	2.5
1480.8705	18.01	-4.65	184191.710	.5	190942.650	.5
1480.9297	18.01	-1.40	195031.120	2.5	201781.790	2.5
1480.9691	19.00	-3.53	27398.140	1.5	34148.630	1.5
1480.9937	7.00	-1.51	107445.622	1.5	114196.000	2.5
1481.0745	19.00	-2.83	27398.140	1.5	34148.150	.5
1481.0877	28.01	-3.95	116087.380	4.5	122837.330	4.5
1481.1469	27.00	-3.16	41968.890	2.5	48718.570	2.5
1481.1711	23.01	-2.87	66158.600	4.0	72908.170	3.0
1481.1847	12.00	-2.71	47957.028	2.0	54706.536	1.0
1481.3679	17.00	-4.05	94482.236	2.5	101230.909	3.5
1481.3752	21.00	-.80	33154.010	2.5	39902.650	3.5
1481.3774	22.00	-1.90	28828.510	2.0	35577.140	2.0
1481.4257	27.00	-4.65	48828.870	2.5	55577.280	1.5
1481.4816	26.00	-1.32	40257.300	5.0	47005.455	5.0
1481.4937	29.01	.37	141733.900	2.0	148482.000	3.0
1481.4937	18.01	-2.53	204977.590	2.5	211725.690	3.5
1481.5047	26.00	-3.65	47177.210	1.0	53925.260	1.0
1481.5135	18.01	-.80	204977.590	2.5	211725.600	2.5
1481.5245	23.00	-8.46	9824.580	2.5	16572.540	3.5
1481.6145	18.01	-3.10	194861.270	2.5	201608.820	3.5
1481.6590	28.00	-1.55	42585.296	4.0	49332.643	4.0
1481.7023	8.01	-.61	248425.350	.5	255172.500	1.5
1481.7115	17.00	-2.27	88080.042	2.5	94827.150	2.5
1481.7214	14.00	-1.77	57198.027	3.0	63945.090	3.0
1481.7286	18.01	-2.37	183985.940	1.5	190732.970	.5
1481.7726	28.01	-2.64	130815.910	3.5	137562.740	3.5
1481.8231	29.01	-3.67	118484.000	3.0	125230.600	3.0
1481.8341	6.00	-4.14	78104.980	0.0	84851.530	1.0
1481.8890	30.02	-2.54	257491.100	0.0	264237.400	1.0
1481.9285	24.00	-3.93	48458.670	2.0	55204.790	3.0
1482.0713	27.00	-4.28	45957.290	.5	52702.760	1.5
1482.2405	27.00	-4.10	40345.950	2.5	47090.650	2.5
1482.2471	24.00	-2.79	50628.110	3.0	57372.780	4.0
1482.2889	18.01	-1.71	199879.320	3.5	206623.800	3.5
1482.3568	28.00	-3.11	43933.428	2.0	50677.599	3.0
1482.4164	23.00	-2.59	37174.680	3.5	43918.580	2.5
1482.5043	13.02	.23	188878.220	1.5	195621.720	.5
1482.5900	27.00	-4.68	40621.620	1.5	47364.730	1.5
1482.6281	26.00	-4.30	44551.325	3.0	51294.262	3.0
1482.6705	14.00	-2.87	57017.496	2.0	63760.240	3.0
1482.6833	26.00	.47	42815.814	5.0	49558.500	4.0
1482.8627	6.00	-2.14	81105.030	1.0	87846.900	0.0
1482.9881	15.01	-1.60	125391.900	4.0	132133.200	3.0
1483.0141	26.00	-3.76	47420.000	2.0	54161.182	3.0
1483.0334	17.00	-1.74	94482.236	2.5	101223.330	2.5
1483.0574	28.00	-1.59	44565.100	3.0	51306.085	3.0
1483.1780	22.00	-4.96	20062.980	1.0	26803.417	2.0
1483.2411	26.00	-4.50	54066.570	4.0	60806.720	3.0
1483.2565	6.00	-.63	71364.900	1.0	78104.980	0.0
1483.2653	28.01	-2.58	108368.050	2.5	115108.090	2.5
1483.2830	23.00	-2.25	31200.120	1.5	37940.080	.5
1483.2874	26.00	-3.98	44826.920	0.0	51566.860	1.0
1483.2964	26.00	-4.30	54066.821	2.0	60806.720	3.0
1483.3569	18.00	-3.68	111667.870	0.0	118407.494	1.0
1483.3648	17.00	-3.62	95786.752	2.5	102526.340	2.5
1483.3824	17.00	-2.30	95786.752	2.5	102526.260	3.5
1483.4881	28.00	-1.27	44112.192	1.0	50851.220	1.0
1483.5207	6.00	-1.87	81105.030	1.0	87843.910	1.0
1483.5748	17.00	-4.28	94314.206	1.5	101052.840	2.5
1483.5911	23.00	-2.36	32660.260	2.5	39398.820	3.5
1483.6219	23.01	-4.59	30613.970	4.0	37352.390	5.0
1483.6556	26.00	-3.23	47092.693	3.0	53830.960	3.0
1483.7386	26.00	-4.06	45281.816	2.0	52019.706	1.0
1483.8342	26.00	-2.10	41018.029	2.0	47755.485	3.0
1483.8377	28.01	-2.77	122084.790	1.5	128822.230	1.5
1483.8708	26.00	-3.21	51076.680	4.0	57813.970	3.0
1483.8796	8.01	-4.14	248425.350	.5	255162.600	.5
1483.8884	28.01	-2.22	129782.070	3.5	136519.280	4.5
1483.9457	27.00	-4.40	48546.070	1.5	55283.020	2.5
1483.9941	7.01	-1.61	203189.030	1.0	209925.760	2.0
1484.0717	7.00	-3.25	107445.622	1.5	114182.000	2.5
1484.0933	18.01	-2.13	204996.090	3.5	211732.370	4.5
1484.0955	6.00	-2.59	78199.070	2.0	84935.340	1.0
1484.1197	28.01	-4.39	127331.600	2.5	134067.760	1.5
1484.1232	14.00	-2.00	56978.256	1.0	63714.400	2.0
1484.1241	22.00	-2.60	28791.620	1.0	35527.760	1.0
1484.1640	26.00	-4.53	44243.668	5.0	50979.627	4.0
1484.1748	27.00	-3.22	41982.660	1.5	48718.570	2.5
1484.3290	22.00	-4.12	40302.950	3.0	47038.160	3.0
1484.3687	6.00	-1.63	78249.940	4.0	84984.970	3.0
1484.3952	24.00	-2.81	48251.910	3.0	54986.820	3.0
1484.4018	28.01	-4.97	130225.870	3.5	136960.750	2.5
1484.4084	6.00	-2.56	78215.510	3.0	84950.360	2.0
1484.4216	6.00	-4.18	78116.740	1.0	84851.530	1.0
1484.4392	23.01	-3.37	30306.400	3.0	37041.110	2.0
1484.4569	28.01	-3.75	130801.330	4.5	137535.960	3.5
1484.4855	28.01	-4.84	130801.330	4.5	137535.830	5.5
1484.4988	23.01	-2.78	65783.400	0.0	72517.840	1.0
1484.5406	28.01	-3.89	116087.380	4.5	122821.630	5.5
1484.5825	24.00	-2.35	27163.200	0.0	33897.260	1.0
1484.5980	28.01	-3.44	130225.870	3.5	136959.860	2.5
1484.6370	26.00	-4.88	44415.057	4.0	51148.870	3.0
1484.7655	28.01	-4.48	130227.520	2.5	136960.750	2.5
1484.7697	7.00	-1.97	105119.850	1.5	111853.061	1.5
1484.7876	24.00	-3.28	50628.110	3.0	57361.240	3.0
1484.8396	14.00	-2.70	57017.496	2.0	63750.390	1.0
1484.9618	28.01	-3.74	130227.520	2.5	136959.860	2.5
1484.9715	22.00	-1.40	18911.399	2.0	25643.695	3.0
1485.0213	12.01	-2.75	109062.340	2.5	115794.410	2.5
1485.0213	12.01	-1.44	109062.340	3.5	115794.410	2.5
1485.0213	12.01	-1.60	109062.340	2.5	115794.410	1.5
1485.0346	26.01	-3.22	58631.650	4.5	65363.660	5.5
1485.0478	9.00	-2.89	129381.860	2.5	136113.810	1.5
1485.1295	27.00	-4.54	46032.100	4.5	52763.680	3.5
1485.1493	18.01	-1.39	202467.140	1.5	209198.630	2.5
1485.1780	6.00	-.57	71385.380	2.0	78116.740	1.0
1485.2177	17.00	-4.20	94314.206	1.5	101045.386	1.5
1485.2272	26.00	-4.18	47008.351	5.0	53739.488	5.0
1485.2663	18.01	-4.31	148620.070	1.5	155351.030	1.5
1485.2767	18.00	-3.94	117151.387	1.0	123882.300	1.0
1485.3223	20.00	-2.11	38259.124	3.0	44989.830	2.0
1485.3949	26.00	-3.41	47017.170	3.0	53747.547	3.0
1485.4561	25.02	.11	208743.100	2.5	215473.200	1.5
1485.4604	18.01	-2.67	199525.150	1.5	206255.230	2.5
1485.4914	27.00	-4.76	45904.680	1.5	52634.620	.5
1485.4958	28.01	-4.10	130206.900	4.5	136936.820	3.5
1485.5664	18.01	-.69	204996.090	3.5	211725.690	3.5
1485.5863	27.00	-4.99	46186.410	1.5	52915.920	.5
1485.5863	18.01	-2.21	204996.090	3.5	211725.600	2.5
1485.5920	14.00	-2.54	50566.397	1.0	57295.881	0.0
1485.6591	28.01	-3.62	122140.710	4.5	128869.890	5.5
1485.6682	22.00	-4.88	37852.021	1.0	44581.160	2.0
1485.6967	26.01	-3.54	92602.940	3.5	99331.950	4.5
1485.7121	26.01	-4.37	86599.660	2.5	93328.600	1.5
1485.7188	18.00	-3.83	119566.110	3.0	126295.020	3.0
1485.7365	6.00	-2.90	81769.790	2.0	88498.620	2.0
1485.7453	18.00	-3.85	119566.110	3.0	126294.900	3.0
1485.7453	18.00	-2.49	119566.110	3.0	126294.900	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1485.8358	7.01	-.62	203537.660	1.0	210266.040	2.0
1485.8506	14.00	-2.33	57583.657	4.0	64311.970	4.0
1485.8623	26.00	-4.01	47197.000	2.0	53925.260	1.0
1485.9595	29.01	-1.65	116576.810	0.0	123304.630	1.0
1486.0036	25.02	.31	208935.880	4.5	215663.500	3.5
1486.0081	30.02	-2.43	258277.700	3.0	265005.300	2.0
1486.0280	6.00	-1.47	81105.030	1.0	87832.540	2.0
1486.0743	23.01	-3.64	30641.710	3.0	37369.010	2.0
1486.0892	14.00	-.51	57583.657	4.0	64310.890	5.0
1486.0892	14.00	-.84	57583.657	4.0	64310.890	5.0
1486.2312	14.01	-3.15	119578.490	3.5	126305.080	3.5
1486.2312	14.01	-1.61	119578.490	4.5	126305.080	3.5
1486.2312	14.01	-1.72	119578.490	3.5	126305.080	2.5
1486.2577	27.00	-4.33	48828.870	2.5	55555.340	2.5
1486.2844	14.00	-2.09	50602.440	0.0	57328.789	1.0
1486.2975	28.01	-3.98	122140.710	4.5	128867.000	3.5
1486.4014	18.01	-1.40	194883.000	3.5	201608.820	3.5
1486.4058	17.00	-3.59	90948.530	1.5	97674.330	2.5
1486.5494	22.00	-4.85	42311.310	3.0	49036.460	4.0
1486.5516	6.00	-2.06	81105.030	1.0	87830.170	1.0
1486.5671	25.00	-4.79	56356.210	3.5	63081.280	2.5
1486.6953	23.00	-8.95	9636.960	1.5	16361.450	1.5
1486.7283	22.00	-4.09	18911.399	2.0	25635.740	1.0
1486.7583	26.00	-4.85	44243.668	5.0	50967.873	6.0
1486.7639	18.01	-2.24	194996.490	1.5	201720.670	1.5
1486.8059	18.01	-1.30	202544.320	2.5	209268.310	1.5
1486.8284	28.00	-1.89	47030.148	3.0	53754.036	2.0
1486.8412	28.01	-3.20	99559.330	2.5	106283.160	2.5
1486.9386	23.00	-3.72	37342.660	2.5	44066.050	3.5
1486.9938	17.00	-2.20	91660.580	2.5	98383.720	3.5
1487.0248	28.01	-1.90	113321.950	4.5	120044.950	4.5
1487.0514	23.01	-3.80	66303.880	3.0	73026.760	2.0
1487.0845	24.00	-3.38	48251.910	3.0	54974.640	2.0
1487.1193	26.00	-4.26	29356.780	2.0	36079.353	3.0
1487.1244	14.02	-.08	227665.090	2.0	234387.640	1.0
1487.1266	24.00	-4.45	50628.110	3.0	57350.650	2.0
1487.1511	14.00	-3.69	57295.881	0.0	64018.310	1.0
1487.2120	14.00	-2.76	56503.346	2.0	63225.500	2.0
1487.2438	28.01	-4.47	122144.990	2.5	128867.000	3.5
1487.2748	27.00	-4.74	48443.760	2.5	55165.630	2.5
1487.2947	28.01	-3.17	122140.710	4.5	128862.490	4.5
1487.3161	18.00	-3.28	117151.387	1.0	123873.070	0.0
1487.3354	28.00	-.87	42605.964	3.0	49327.560	3.0
1487.3677	28.01	-4.22	127331.600	2.5	134053.050	2.5
1487.3744	22.00	-4.77	41337.430	2.0	48058.850	1.0
1487.3965	28.01	-4.06	130215.500	4.5	136936.820	3.5
1487.4253	26.00	-4.79	47834.260	3.0	54555.450	4.0
1487.4585	24.00	-2.61	27176.220	1.0	33897.260	1.0
1487.6282	14.00	-3.48	57583.657	4.0	64303.930	3.0
1487.6776	28.01	-4.97	130815.910	3.5	137535.960	3.5
1487.6842	24.00	-2.89	35572.940	2.0	42292.960	1.0
1487.7351	9.00	-4.03	129381.860	2.5	136101.650	3.5
1487.7591	12.00	-.57	47957.028	2.0	54676.710	2.0
1487.7591	12.00	-.90	47957.028	2.0	54676.710	3.0
1487.7628	12.00	-1.94	47957.045	3.0	54676.710	2.0
1487.7628	12.00	-.78	47957.045	3.0	54676.710	3.0
1487.7628	12.00	.66	47957.045	3.0	54676.710	4.0
1487.7653	12.00	.33	47957.056	1.0	54676.710	2.0
1487.7681	18.00	-1.49	117183.654	2.0	123903.295	2.0
1487.7859	14.00	-1.24	57468.239	2.0	64187.800	3.0
1487.8193	12.00	.42	47957.028	2.0	54676.438	3.0
1487.8215	13.01	-1.23	142849.200	4.0	149568.600	3.0
1487.8215	13.01	-2.07	142849.200	4.0	149568.600	3.0
1487.8215	13.01	-2.99	142849.200	3.0	149568.600	3.0
1487.8231	12.00	-.63	47957.045	3.0	54676.438	3.0
1487.8999	22.00	-2.62	18818.230	0.0	25537.276	1.0
1488.1316	15.01	.04	123456.300	1.0	130174.300	2.0
1488.2024	28.01	-.73	130470.900	4.5	137188.580	4.5
1488.2645	29.01	-1.20	139710.200	2.0	146427.600	1.0
1488.2694	7.00	-2.76	107445.622	1.5	114163.000	1.5
1488.6523	29.01	-3.29	118532.150	2.0	125247.800	2.0
1488.6745	8.01	-3.02	248425.350	.5	255140.900	1.5
1488.7365	28.01	-3.24	130815.910	3.5	137531.180	4.5
1488.7669	28.00	-2.72	50142.800	3.0	56857.933	4.0
1488.7944	10.00	-3.65	163012.621	1.0	169727.630	1.0
1488.8119	28.01	-2.82	122084.790	1.5	128799.720	.5
1488.9343	7.00	-2.93	107445.622	1.5	114160.000	1.5
1488.9343	7.00	-1.94	107445.622	1.5	114160.000	2.5
1489.0064	14.00	-1.85	57583.657	4.0	64297.710	4.0
1489.0470	27.00	-4.59	46002.830	2.5	52716.700	3.5
1489.0558	18.01	-1.66	183797.360	2.5	190511.190	2.5
1489.0818	14.00	-3.17	57583.657	4.0	64297.370	3.0
1489.1956	28.01	-3.96	122140.710	4.5	128853.910	4.5
1489.2133	22.00	-3.72	42146.390	1.0	48859.510	1.0
1489.2133	22.00	-3.23	42311.310	3.0	49024.430	3.0
1489.2732	17.00	-.64	91660.580	2.5	98373.430	2.5
1489.3553	26.00	-4.08	47420.000	2.0	54132.480	1.0
1489.3753	17.00	-1.62	91660.580	2.5	98372.970	1.5
1489.5107	22.00	-2.00	28791.620	1.0	35503.400	0.0
1489.5517	28.00	-.40	42621.048	3.0	49332.643	4.0
1489.5573	27.00	-4.84	47225.110	3.5	53936.680	2.5
1489.5981	22.00	-4.39	18825.890	1.0	25537.276	1.0
1489.6043	7.00	-4.76	104615.440	1.5	111326.798	2.5
1489.6949	28.01	-4.40	130225.870	3.5	136936.820	3.5
1489.7726	27.00	-4.16	46260.020	1.5	52970.620	2.5
1489.8118	18.00	-1.29	116942.815	3.0	123653.238	4.0
1489.8214	9.00	-1.64	129381.860	2.5	136092.240	2.5
1489.8480	14.02	-2.59	242410.880	2.0	249121.140	3.0
1489.8516	12.00	-2.92	54192.256	3.0	60902.500	2.0
1489.8516	12.00	-1.59	54192.256	3.0	60902.500	3.0
1489.8516	12.00	-1.78	54192.256	3.0	60902.500	3.0
1489.8516	12.00	-.31	54192.256	3.0	60902.500	4.0
1489.8600	12.00	-1.54	54192.294	2.0	60902.500	2.0
1489.8600	12.00	-.54	54192.294	2.0	60902.500	3.0
1489.8600	12.00	-2.09	54192.294	2.0	60902.500	3.0
1489.8693	12.00	-.64	54192.336	1.0	60902.500	2.0
1489.8698	14.00	-1.93	57541.918	1.0	64252.080	2.0
1489.9058	18.01	-1.64	183797.360	2.5	190507.360	1.5
1489.9258	28.01	-4.66	127219.970	3.5	133929.880	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1489.9280	8.01	-3.60	248185.300	2.5	254895.200	1.5
1489.9280	8.01	-3.98	248185.300	2.5	254895.200	2.5
1489.9346	14.02	-1.05	242411.270	3.0	249121.140	3.0
1490.0302	14.02	.01	242411.700	4.0	249121.140	3.0
1490.0635	28.01	-4.85	122112.940	.5	128822.230	1.5
1490.1390	17.00	-2.02	85442.430	1.5	92151.380	.5
1490.1545	28.01	-4.88	122144.990	2.5	128853.870	2.5
1490.1678	21.00	-4.47	17947.980	1.5	24656.800	.5
1490.2389	26.00	-3.19	53840.680	6.0	60549.180	5.0
1490.2434	26.00	-4.96	47452.702	4.0	54161.182	3.0
1490.2989	23.00	-4.76	31398.090	2.5	38106.320	2.5
1490.3002	12.00	-1.28	54250.086	1.0	60958.310	2.0
1490.3056	30.02	-2.93	258075.700	3.0	264783.900	4.0
1490.3367	6.00	-3.25	72610.720	2.0	79318.780	1.0
1490.3433	28.01	-.70	130480.550	3.5	137188.580	4.5
1490.3544	9.00	-1.74	129381.860	2.5	136089.840	1.5
1490.3944	28.01	-4.68	130570.420	.5	137278.220	1.5
1490.4389	28.01	-3.16	130815.910	3.5	137523.510	3.5
1490.5135	26.00	-3.75	44511.795	2.0	51219.059	3.0
1490.6173	28.00	-1.14	42621.048	3.0	49327.845	2.0
1490.6827	14.00	-2.91	56780.427	1.0	63486.930	1.0
1490.6878	24.00	-3.24	50654.760	2.0	57361.240	3.0
1490.6967	37.00	-1.49	23792.591	0.0	30500.864	0.0
1490.7033	22.00	-4.45	39198.320	6.0	45904.730	6.0
1490.7456	28.01	-1.85	129842.330	2.5	136548.550	2.5
1490.7671	26.00	-3.68	44664.061	2.0	51370.184	2.0
1490.7834	8.01	-4.65	245902.850	2.5	252608.900	3.5
1490.7976	18.00	-3.47	118407.494	1.0	125113.480	2.0
1490.8056	23.00	-2.23	32891.060	3.5	39597.010	4.5
1490.8870	12.00	-1.75	54252.726	2.0	60958.310	2.0
1490.8874	26.00	-4.78	45551.748	1.0	52257.330	0.0
1490.9056	29.01	-1.65	139710.200	2.0	146415.700	2.0
1490.9479	28.01	-4.91	121180.550	5.5	127885.860	4.5
1491.0013	28.01	-1.49	126738.820	1.5	133443.890	2.5
1491.0191	28.01	-4.88	121190.340	4.5	127895.330	3.5
1491.0613	28.01	-1.71	129842.330	2.5	136547.130	3.5
1491.0880	22.00	-4.39	41624.130	4.0	48328.810	4.0
1491.1229	14.00	-1.70	54257.582	3.0	60962.105	2.0
1491.1242	26.00	-1.20	44676.963	4.0	51381.480	4.0
1491.1814	19.00	-2.53	27397.100	2.5	34101.360	2.5
1491.1814	19.00	-1.22	27397.100	2.5	34101.360	3.5
1491.2170	23.00	-2.62	37361.950	4.5	44066.050	3.5
1491.2237	28.01	-2.80	115565.980	2.5	122270.050	3.5
1491.2317	14.00	-1.36	57017.496	2.0	63721.530	2.0
1491.3068	17.00	-4.21	94468.857	.5	101172.553	1.5
1491.3638	6.00	-4.36	78148.090	2.0	84851.530	1.0
1491.3905	28.01	-3.42	130815.910	3.5	137519.230	2.5
1491.4127	19.00	-1.38	27398.140	1.5	34101.360	2.5
1491.4550	28.01	-4.80	116087.380	4.5	122790.410	4.5
1491.4751	28.01	-3.22	127219.970	3.5	133922.910	4.5
1491.5707	23.02	-2.71	155682.600	3.5	162385.110	3.5
1491.6464	7.01	-1.06	203537.660	1.0	210239.830	1.0
1491.6985	26.00	-4.31	47555.584	1.0	54257.520	2.0
1491.7644	23.01	-2.71	65816.200	1.0	72517.840	1.0
1491.8040	14.00	-2.23	57541.918	1.0	64243.380	2.0
1491.9151	17.00	-1.96	88272.720	.5	94973.683	.5
1491.9285	7.00	-1.74	107445.622	1.5	114146.525	2.5
1491.9307	9.00	-2.21	118936.797	1.5	125637.690	2.5
1491.9403	22.00	-1.80	28952.100	4.0	35652.950	3.0
1492.0004	25.02	.21	208819.640	3.5	215520.220	2.5
1492.1006	6.00	-3.04	72610.720	2.0	79310.850	2.0
1492.1407	28.01	-1.61	129842.330	2.5	136542.280	3.5
1492.1852	27.00	-2.88	46375.170	1.5	53074.920	1.5
1492.2966	22.00	-1.76	28828.510	2.0	35527.760	1.0
1492.3077	23.00	-3.66	32897.810	5.5	39597.010	4.5
1492.3189	27.00	-3.63	27497.060	2.5	34196.210	1.5
1492.4311	18.00	-3.11	117183.654	2.0	123882.300	1.0
1492.4748	29.01	-4.71	118532.150	2.0	125230.600	3.0
1492.4793	27.00	-3.11	49847.080	2.5	56545.510	2.5
1492.5330	14.00	-3.47	50499.838	2.0	57198.027	3.0
1492.5885	19.00	-3.24	27450.690	.5	34148.630	1.5
1492.6426	17.00	-.74	85442.430	1.5	92140.127	1.5
1492.6955	19.00	-3.54	27450.690	.5	34148.150	.5
1492.8193	14.00	-1.79	57017.496	2.0	63714.400	2.0
1492.8994	26.00	-3.18	44183.607	2.0	50880.152	1.0
1492.9317	28.01	-2.84	122140.710	4.5	128837.110	5.5
1492.9362	9.00	-.61	129381.860	2.5	136078.240	2.5
1492.9651	27.00	-4.14	48753.720	1.5	55449.970	2.5
1493.0320	28.01	-4.29	130184.610	5.5	136880.560	4.5
1493.0454	24.00	-3.76	50654.760	2.0	57350.650	2.0
1493.0499	23.01	-4.52	30673.140	2.0	37369.010	2.0
1493.1078	26.00	-4.81	44166.240	3.0	50861.850	3.0
1493.1546	17.00	-2.49	84648.100	2.5	91343.500	2.5
1493.2657	26.00	-3.02	47136.058	2.0	53830.960	3.0
1493.2782	22.00	-2.49	37538.804	2.0	44233.650	3.0
1493.3108	22.00	-1.69	28882.440	3.0	35577.140	2.0
1493.4826	24.00	-3.52	48515.080	3.0	55209.010	4.0
1493.5852	27.00	-4.73	45766.630	3.5	52460.100	2.5
1493.6223	10.00	-2.85	163012.621	1.0	169705.925	0.0
1493.6856	14.02	-1.04	242410.880	2.0	249103.900	2.0
1493.7080	28.01	-2.92	113623.100	.5	120316.020	.5
1493.7341	28.00	-1.95	42621.048	3.0	49313.851	3.0
1493.7593	28.01	-1.38	100389.520	2.5	107082.210	2.5
1493.7727	14.02	-.13	242411.270	3.0	249103.900	2.0
1493.9647	27.00	-3.55	48828.870	2.5	55520.640	3.5
1494.0071	28.01	-1.60	122175.420	2.5	128867.000	3.5
1494.0243	28.00	-4.35	43654.974	3.0	50346.477	2.0
1494.1120	26.00	-3.56	54066.570	4.0	60757.680	4.0
1494.1281	7.00	-3.91	104810.330	2.5	111501.368	1.5
1494.2527	25.00	-4.60	50931.420	2.5	57621.900	1.5
1494.2549	29.01	-4.01	116326.160	3.0	123016.630	3.0
1494.2891	17.00	-1.39	94482.236	2.5	101172.553	1.5
1494.2996	28.01	-1.30	122812.970	3.5	129503.240	4.5
1494.4247	24.00	-4.99	48515.080	3.0	55204.790	3.0
1494.4605	18.01	-1.48	195031.120	2.5	201720.670	1.5
1494.5210	10.00	-2.89	163038.351	2.0	169727.630	1.0
1494.5788	9.00	-.36	129381.860	2.5	136070.880	3.5
1494.5990	28.01	-2.52	129842.330	2.5	136531.260	1.5
1494.6369	10.01	-2.72	283894.410	.5	290583.170	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1494.6651	28.00	-4.53	49185.146	2.0	55873.780	2.0
1494.7040	28.01	-4.60	130206.900	4.5	136895.360	3.5
1494.7397	13.01	-3.31	138496.700	1.0	145185.000	0.0
1494.7397	13.01	-2.92	138496.700	1.0	145185.000	1.0
1494.7397	13.01	-2.61	138496.700	1.0	145185.000	2.0
1494.7619	17.00	-2.68	84485.309	1.5	91173.510	1.5
1494.7666	26.00	-2.75	44415.057	4.0	51103.237	5.0
1494.7755	26.00	-4.11	54066.570	4.0	60754.710	4.0
1494.8336	24.00	-3.76	50662.770	1.0	57350.650	2.0
1494.8515	13.01	-1.96	139588.700	4.0	146276.500	3.0
1494.8515	13.01	-2.50	139588.700	4.0	146276.500	3.0
1494.8515	13.01	-3.90	139588.700	3.0	146276.500	3.0
1494.8806	27.00	-3.55	48217.320	3.5	54904.990	2.5
1494.9521	29.01	-4.04	130386.400	2.0	137073.750	2.0
1495.0035	23.01	-3.60	30267.460	2.0	36954.580	1.0
1495.0486	10.00	-4.59	165912.782	1.0	172599.700	0.0
1495.0683	22.00	-1.22	41985.830	3.0	48672.660	4.0
1495.0795	28.01	-4.63	122112.940	.5	128799.720	.5
1495.0938	26.00	.79	42815.814	5.0	49502.530	5.0
1495.1173	17.00	-3.69	95313.749	1.5	102000.360	1.5
1495.1421	15.01	-1.46	125391.900	4.0	132078.400	4.0
1495.1909	28.00	-2.20	42585.296	4.0	49271.578	3.0
1495.2202	26.00	-3.79	47693.289	3.0	54379.440	3.0
1495.3224	28.00	-2.16	51124.800	3.0	57810.494	4.0
1495.5306	17.00	-1.06	85917.937	.5	92602.700	.5
1495.5671	6.00	-2.76	81105.030	1.0	87789.630	1.0
1495.5901	26.00	.45	44676.963	4.0	51361.460	3.0
1495.6119	15.01	.38	124947.600	2.0	131632.000	3.0
1495.6168	7.00	-2.76	107445.622	1.5	114130.000	.5
1495.8692	28.01	-2.91	99154.810	4.5	105838.060	3.5
1495.8983	24.00	-4.75	24282.340	4.0	30965.460	3.0
1496.0103	14.02	-.31	242410.880	2.0	249093.500	1.0
1496.0751	18.01	-3.26	205079.070	2.5	211761.400	3.5
1496.0819	29.01	-.07	139741.100	3.0	146423.400	4.0
1496.0930	9.00	-2.11	129772.830	2.5	136455.080	1.5
1496.1132	28.01	-3.90	122144.990	2.5	128827.150	3.5
1496.2005	22.00	-1.42	41906.510	2.0	48588.280	3.0
1496.2050	23.00	-4.82	20789.130	2.5	27470.880	3.5
1496.2847	26.00	-3.23	44022.518	4.0	50703.912	5.0
1496.3931	28.01	-4.95	113321.950	4.5	120002.860	3.5
1496.3992	18.00	-1.43	118469.117	2.0	125150.000	3.0
1496.4021	26.00	-3.31	51016.720	5.0	57697.590	4.0
1496.4244	10.01	-.89	302057.260	.5	308738.030	1.5
1496.4693	9.01	.04	270508.290	2.0	277188.860	1.0
1496.5464	26.00	-4.66	46888.494	2.0	53568.720	2.0
1496.5477	28.01	-4.91	129396.040	5.5	136076.260	4.5
1496.6815	20.00	-4.96	31539.495	1.0	38219.118	2.0
1496.7740	22.00	-1.02	42092.520	4.0	48771.730	5.0
1496.8054	21.00	-.70	33278.640	3.5	39957.710	4.5
1496.8764	28.00	-4.74	50142.800	3.0	56821.553	3.0
1496.8972	9.00	-.97	129772.830	2.5	136451.490	2.5
1496.9443	28.01	-1.50	122175.420	2.5	128853.870	2.5
1496.9907	26.00	-4.96	44183.607	2.0	50861.850	3.0
1497.0743	25.00	-1.65	47782.430	1.5	54460.300	2.5
1497.1931	6.00	-1.89	78307.630	2.0	84984.970	3.0
1497.1954	27.00	-4.63	45957.290	.5	52634.620	.5
1497.3389	26.00	-4.45	47590.070	4.0	54266.760	5.0
1497.4062	18.00	-3.43	119847.810	1.0	126524.200	0.0
1497.4291	7.00	-1.61	104825.080	2.5	111501.368	1.5
1497.4542	18.00	-1.22	105462.804	3.0	112138.980	2.0
1497.6141	18.00	-1.81	117151.387	1.0	123826.850	2.0
1497.7315	28.01	-4.44	130205.620	5.5	136880.560	4.5
1497.8078	29.01	-.69	139741.100	3.0	146415.700	2.0
1497.8415	24.00	-3.22	35618.510	1.0	42292.960	1.0
1497.8547	17.00	-2.67	95313.749	1.5	101988.140	2.5
1497.8953	24.00	-2.14	27223.050	2.0	33897.260	1.0
1497.9151	28.00	-3.64	42653.723	2.0	49327.845	2.0
1497.9379	6.00	-2.09	78529.620	3.0	85203.640	2.0
1498.1108	24.00	-3.59	42648.260	3.0	49321.510	2.0
1498.1130	22.00	-2.66	34170.950	0.0	40844.190	1.0
1498.1914	26.00	-2.87	46720.824	4.0	53393.715	4.0
1498.3690	17.00	-.68	84988.480	1.5	91660.580	2.5
1498.3802	18.01	-1.53	199959.620	2.5	206631.670	2.5
1498.4319	28.01	-4.96	130227.520	2.5	136899.340	2.5
1498.4975	28.00	-2.86	42656.317	1.0	49327.845	2.0
1498.5339	14.00	-2.12	54185.264	1.0	60856.630	1.0
1498.5420	27.00	-3.88	46671.940	2.5	53343.270	1.5
1498.5487	30.02	-2.44	257566.100	1.0	264237.400	1.0
1498.6655	23.00	-3.01	32456.450	1.5	39127.230	1.5
1498.7172	27.00	-3.77	47612.180	1.5	54282.730	2.5
1498.7214	7.00	-2.42	107588.469	.5	114259.000	1.5
1498.7733	17.00	-1.14	91069.020	.5	97739.320	1.5
1498.7949	7.00	-4.38	104615.440	1.5	111285.644	1.5
1498.8363	17.00	-.49	91069.020	.5	97739.040	.5
1498.8632	30.02	-3.06	257962.500	2.0	264632.400	3.0
1498.9801	18.01	-.08	205056.220	1.5	211725.600	2.5
1498.9981	29.01	-4.37	130945.000	1.0	137614.300	0.0
1499.0275	22.00	-2.92	32857.721	3.0	39526.890	2.0
1499.0644	13.00	-2.12	40271.965	.5	46940.970	1.5
1499.1689	6.00	-1.80	78731.270	1.0	85399.810	2.0
1499.2769	6.00	-2.32	81105.030	1.0	87773.090	2.0
1499.3281	22.00	-2.61	18825.890	1.0	25493.722	2.0
1499.3501	26.00	-3.14	44551.325	3.0	51219.059	3.0
1499.3724	26.00	-4.77	36766.950	3.0	43434.585	3.0
1499.5355	7.01	-.51	196592.070	1.0	203258.980	2.0
1499.5647	7.01	-2.24	203258.980	2.0	209925.760	2.0
1499.5782	6.00	-1.14	78318.250	3.0	84984.970	3.0
1499.6165	9.00	-2.55	129484.660	1.5	136151.210	.5
1499.6344	28.01	-4.64	121325.090	2.5	127991.560	3.5
1499.6574	22.00	-4.61	28772.860	0.0	35439.228	1.0
1499.7244	26.01	-3.26	92427.220	4.5	99093.290	5.5
1499.7626	15.01	-.83	132078.400	4.0	138744.300	3.0
1499.7957	14.00	-2.00	57198.027	3.0	63863.780	2.0
1499.8954	29.01	-2.21	116080.460	3.0	122745.770	2.0
1499.9202	22.00	-1.62	41854.010	1.0	48519.210	2.0
1500.0000	56.00	-.30	11395.000	0.0	18061.667	0.0
1500.0077	28.00	-2.56	51124.000	3.0	57789.611	4.0
1500.1497	18.01	.04	199959.620	2.5	206623.800	3.5
1500.1580	18.00	-4.74	117151.387	1.0	123815.530	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1500.2628	13.00	-1.87	40277.872	1.5	46941.550	2.5
1500.3934	13.00	-2.82	40277.872	1.5	46940.970	1.5
1500.4834	7.00	-4.82	104664.100	1.5	111326.798	2.5
1500.5095	26.00	-4.79	45551.748	1.0	52214.330	1.0
1500.5152	26.00	-4.88	47106.463	4.0	53769.020	4.0
1500.5280	13.01	-.16	142607.000	2.0	149269.500	3.0
1500.5917	7.00	-1.68	107628.283	1.5	114290.500	2.5
1500.6361	25.00	-4.04	56189.450	4.5	62851.470	3.5
1500.6361	9.00	-1.47	129772.830	2.5	136434.850	2.5
1500.6674	14.00	-2.19	57328.789	1.0	63990.670	2.0
1500.7488	24.00	-4.03	24303.940	3.0	30965.460	3.0
1500.7684	26.00	-4.41	50979.627	4.0	57641.060	3.0
1500.7961	24.00	-4.80	41043.350	3.0	47704.660	4.0
1500.7983	28.01	-.91	122812.970	3.5	129474.270	3.5
1500.8997	18.01	-2.10	205100.530	5.5	211761.380	4.5
1500.9520	10.00	-4.04	165912.782	1.0	172573.400	2.0
1501.0439	28.01	-4.88	94705.930	3.5	101366.140	2.5
1501.0624	28.00	-1.28	42653.723	2.0	49313.851	3.0
1501.1030	26.00	-2.91	47831.132	2.0	54491.080	3.0
1501.1138	15.00	-2.28	75104.600	.5	81764.500	1.5
1501.1892	20.00	-3.81	42170.214	2.0	48829.780	2.0
1501.1892	20.00	-2.90	42170.214	2.0	48829.780	1.0
1501.2666	20.00	-2.90	42170.558	3.0	48829.780	2.0
1501.2666	20.00	-3.64	42170.558	3.0	48829.780	3.0
1501.3151	18.00	-1.69	118407.494	1.0	125066.501	2.0
1501.3271	17.00	-4.57	94482.236	2.5	101141.190	3.5
1501.3722	20.00	-2.57	42171.026	4.0	48829.780	3.0
1501.4272	27.00	-3.40	44394.470	3.5	51052.980	3.5
1501.4813	8.01	-.06	248514.230	1.5	255172.500	1.5
1501.4881	28.01	-3.49	122144.990	2.5	128803.230	2.5
1501.5106	25.00	-3.85	37630.620	4.5	44288.760	4.5
1501.5242	14.02	.03	207874.090	0.0	214532.170	1.0
1501.5783	27.00	-3.45	46685.430	1.5	53343.270	1.5
1501.6166	22.00	-2.58	18037.225	4.0	24694.895	4.0
1501.7197	18.00	-2.67	117151.387	1.0	123808.600	2.0
1501.7497	18.01	-2.18	205104.320	4.5	211761.400	3.5
1501.7542	18.01	-3.98	205104.320	4.5	211761.380	4.5
1501.7881	18.01	-3.17	199446.540	.5	206103.450	1.5
1501.7971	6.00	-1.82	78293.490	1.0	84950.360	2.0
1501.8228	26.00	-3.38	46889.126	4.0	53545.882	3.0
1501.8693	21.00	-3.49	18000.250	2.5	24656.800	1.5
1501.9257	9.00	-.18	129772.830	2.5	136429.130	3.5
1501.9581	7.00	-3.62	104615.440	1.5	111271.596	.5
1502.0342	26.00	-4.14	38678.015	2.0	45333.834	2.0
1502.2520	26.00	-3.17	47092.693	3.0	53747.547	3.0
1502.3748	18.01	-.25	202544.320	2.5	209198.630	2.5
1502.4222	6.00	-3.16	64089.850	1.0	70743.950	1.0
1502.4516	9.00	-2.62	129772.830	2.5	136426.800	1.5
1502.4859	18.00	-1.65	118459.662	1.0	125113.480	2.0
1502.4993	12.00	.34	41197.403	1.0	47851.162	2.0
1502.5848	27.00	-4.81	48753.720	1.5	55407.100	1.5
1502.6074	23.02	-3.76	155682.600	3.5	162335.880	3.5
1502.6278	27.00	-2.59	48615.560	2.5	55268.750	3.5
1502.6706	6.00	-2.64	64090.950	2.0	70743.950	1.0
1502.7542	22.00	-4.60	42206.880	2.0	48859.510	1.0
1502.7926	6.00	-2.94	78199.070	2.0	84851.530	1.0
1502.8356	24.00	-3.68	35640.690	0.0	42292.960	1.0
1502.8383	17.00	-1.87	88080.042	2.5	94732.300	3.5
1502.8446	28.01	-4.27	129424.030	5.5	136076.260	4.5
1502.9576	28.01	-4.86	122175.420	2.5	128827.150	3.5
1503.0005	14.00	-1.74	54205.090	2.0	60856.630	1.0
1503.0547	13.01	-1.38	142601.600	3.0	149252.900	3.0
1503.0547	13.01	.15	142601.600	3.0	149252.900	4.0
1503.0547	13.01	-1.49	142601.600	3.0	149252.900	4.0
1503.0576	18.00	-3.10	107496.463	1.0	114147.750	1.0
1503.0615	28.01	-3.26	94705.930	3.5	101357.200	4.5
1503.0638	28.01	-1.91	100490.950	1.5	107142.210	1.5
1503.1157	25.01	-4.25	62564.700	1.0	69215.730	1.0
1503.1164	18.00	-2.48	111818.090	1.0	118469.117	2.0
1503.1994	9.00	-4.35	129937.330	1.5	136587.990	1.5
1503.2288	28.00	-.54	42621.048	3.0	49271.578	3.0
1503.3445	10.00	-4.70	165912.782	1.0	172562.800	1.0
1503.3938	22.00	-4.97	41457.620	3.0	48107.420	2.0
1503.3998	14.00	-3.32	57372.297	2.0	64022.070	3.0
1503.4096	18.01	-2.99	199981.940	1.5	206631.670	2.5
1503.4141	25.01	-3.87	67910.260	4.0	74559.970	3.0
1503.4910	21.00	-4.18	29096.200	3.5	35745.570	2.5
1503.5740	14.00	-1.97	57372.297	2.0	64021.300	2.0
1503.6095	18.00	-1.55	117183.654	2.0	123832.500	3.0
1503.6199	7.01	-.38	196540.230	0.0	203189.030	1.0
1503.6335	26.00	-4.16	46744.975	3.0	53393.715	4.0
1503.6425	6.00	-1.89	81105.030	1.0	87753.730	2.0
1503.6719	29.01	-3.74	130386.400	2.0	137034.970	3.0
1503.7172	8.01	-4.44	248514.230	1.5	255162.600	.5
1503.7360	14.00	-2.08	54313.818	1.0	60962.105	2.0
1503.7714	21.00	-3.95	29022.870	2.5	35671.000	1.5
1503.8483	27.00	-2.61	44394.470	3.5	51042.260	2.5
1503.8895	22.00	-4.24	28791.620	1.0	35439.228	1.0
1503.9592	22.00	-3.83	27887.740	3.0	34535.040	2.0
1503.9728	28.01	-4.79	122084.790	1.5	128732.030	1.5
1503.9999	23.01	-2.50	66303.880	3.0	72951.000	4.0
1503.9999	9.00	-4.06	129937.330	1.5	136584.450	2.5
1504.0038	14.00	-.94	57372.297	2.0	64019.400	3.0
1504.0246	12.00	.12	41197.403	1.0	47844.414	1.0
1504.0610	24.00	-2.35	48562.160	4.0	55209.010	4.0
1504.0701	28.01	-1.83	122175.420	2.5	128822.230	1.5
1504.1131	18.01	.06	205079.070	2.5	211725.690	3.5
1504.1244	27.00	-3.62	47612.180	1.5	54258.750	2.5
1504.1335	18.01	-1.27	205079.070	2.5	211725.600	2.5
1504.3174	7.00	-1.99	107628.283	1.5	114274.000	2.5
1504.4299	29.01	-1.43	116371.410	4.0	123016.630	3.0
1504.4730	9.01	-2.11	229550.110	2.0	236195.140	3.0
1504.5047	27.00	-4.68	44555.710	1.5	51200.600	1.5
1504.5058	26.00	-2.70	53281.735	5.0	59926.620	5.0
1504.6240	18.00	-2.44	118469.117	2.0	125113.480	2.0
1504.6496	25.00	-2.16	44993.920	3.5	51638.170	2.5
1504.6536	18.00	-.32	108722.668	0.0	115366.900	1.0
1504.6609	27.00	-2.56	42434.230	2.5	49078.430	1.5
1504.7085	26.00	-4.94	52180.820	1.0	58824.810	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1504.7588	7.00	-4.77	104683.030	2.5	111326.798	2.5
1504.7671	7.00	-3.64	107588.469	.5	114232.200	1.5
1504.7705	12.00	-.36	41197.403	1.0	47841.119	0.0
1504.7945	27.00	-3.95	48217.320	3.5	54860.930	4.5
1504.8126	25.01	-3.74	62572.200	2.0	69215.730	1.0
1504.8557	24.00	-4.79	48331.300	1.0	54974.640	2.0
1504.8883	18.00	-3.32	117183.654	2.0	123826.850	2.0
1504.9168	29.01	-4.59	129116.900	3.0	135759.970	2.0
1504.9939	6.00	-1.29	78307.630	2.0	84950.360	2.0
1505.0165	24.00	-4.44	48562.160	4.0	55204.790	3.0
1505.1933	6.00	-1.33	78293.490	1.0	84935.340	1.0
1505.2017	26.00	-4.28	44166.240	3.0	50808.053	4.0
1505.2226	17.00	-1.03	84485.309	1.5	91127.030	2.5
1505.2346	7.00	-1.80	104859.700	1.5	111501.368	1.5
1505.2459	26.00	.47	43163.282	4.0	49804.900	3.0
1505.2562	18.00	-4.08	111818.090	1.0	118459.662	1.0
1505.2703	28.01	-4.47	130570.420	.5	137211.930	.5
1505.3669	26.00	-4.13	47106.463	4.0	53747.547	3.0
1505.3871	26.00	-4.46	44551.325	3.0	51192.320	4.0
1505.3882	27.00	-3.18	46329.630	2.5	52970.620	2.5
1505.4113	26.00	-4.72	48238.832	2.0	54879.720	2.0
1505.6716	21.00	-4.55	31215.760	2.5	37855.500	2.5
1505.6943	9.00	-1.47	129484.660	1.5	136124.300	.5
1505.7539	26.00	-4.42	47960.973	4.0	54600.350	3.0
1505.7938	26.00	-4.73	33765.291	2.0	40404.492	1.0
1505.9302	17.00	-2.54	88188.550	1.5	94827.150	2.5
1506.0615	12.00	-1.16	54248.809	0.0	60886.830	1.0
1506.2417	22.00	-4.46	37743.933	3.0	44381.160	4.0
1506.2712	26.00	-4.44	44511.795	2.0	51148.892	2.0
1506.3513	12.00	-1.28	54250.086	1.0	60886.830	1.0
1506.3513	12.00	-.98	54250.086	1.0	60886.830	2.0
1506.3999	27.00	-3.77	27497.060	2.5	34133.590	3.5
1506.5179	27.00	-4.89	48753.720	1.5	55389.730	1.5
1506.5495	26.00	-.15	47377.909	4.0	54013.780	5.0
1506.7041	20.00	-.45	37298.287	2.0	43933.477	1.0
1506.7609	28.01	-.61	131928.770	4.5	138563.710	3.5
1506.8335	17.00	-.65	91069.020	.5	97703.640	1.5
1506.9508	12.00	-2.46	54252.726	2.0	60886.830	1.0
1506.9508	12.00	-1.45	54252.726	2.0	60886.830	2.0
1506.9508	12.00	-.53	54252.726	2.0	60886.830	3.0
1507.1959	26.00	-4.31	47106.463	4.0	53739.488	5.0
1507.2334	22.00	-4.93	42206.880	2.0	48839.740	3.0
1507.3061	23.01	-3.43	65885.300	2.0	72517.840	1.0
1507.3834	28.01	-1.79	108368.050	2.5	115000.250	3.5
1507.3993	27.00	-3.04	44568.470	2.5	51200.600	1.5
1507.4039	6.00	-1.58	78318.250	3.0	84950.360	2.0
1507.4570	18.00	-4.05	117183.654	2.0	123815.530	1.0
1507.4652	18.01	-3.05	205100.530	5.5	211732.370	4.5
1507.4902	18.01	-1.29	205100.530	5.5	211732.260	5.5
1507.5536	17.00	-2.89	95313.749	1.5	101945.200	1.5
1507.6311	27.00	-3.35	44568.470	2.5	51199.580	3.5
1507.7205	7.00	-2.12	107628.283	1.5	114259.000	1.5
1507.7260	26.00	-.06	45061.287	3.0	51691.980	3.0
1507.7266	26.00	-4.70	22838.320	2.0	29469.010	2.0
1507.7316	26.00	-4.73	17550.180	3.0	24180.848	3.0
1507.7333	14.00	-2.45	54185.264	1.0	60815.925	2.0
1507.7403	23.01	-3.78	66158.600	4.0	72789.230	3.0
1507.8199	23.02	-3.47	156130.000	4.5	162760.280	4.5
1507.8221	6.00	-2.57	81105.030	1.0	87735.300	1.0
1507.9650	18.00	-3.57	114641.040	2.0	121270.682	2.0
1508.0769	9.00	-2.60	129484.660	1.5	136113.810	1.5
1508.1623	17.00	-.64	95897.565	1.5	102526.340	2.5
1508.2817	28.00	-3.21	44206.185	3.0	50834.435	2.0
1508.3272	18.01	-1.32	205104.320	4.5	211732.370	4.5
1508.3317	28.01	-3.60	99040.750	1.5	105668.780	2.5
1508.3354	22.00	-4.64	27907.026	2.0	34535.040	2.0
1508.3417	26.00	-4.36	51373.894	5.0	58001.880	6.0
1508.3522	18.01	.53	205104.320	4.5	211732.260	5.5
1508.3700	2.00	-.85	184865.000	0.0	191494.673	0.0
1508.3818	28.01	-4.47	122175.420	2.5	128803.230	2.5
1508.3841	29.01	-2.01	141733.900	2.0	148361.700	1.0
1508.4046	6.00	-1.76	78307.630	2.0	84935.340	1.0
1508.4455	27.00	-1.71	46746.000	2.5	53373.530	3.5
1508.5864	26.00	-4.57	47377.909	4.0	54004.820	3.0
1508.6413	8.01	-4.21	248514.230	1.5	255140.900	1.5
1508.6732	28.01	-3.60	92792.080	3.5	99418.610	3.5
1508.7533	26.00	-4.33	53545.882	3.0	60172.060	4.0
1508.8000	7.04	-.96	477777.000	0.0	484404.784	0.0
1508.8218	22.00	-3.49	18911.399	2.0	25537.276	1.0
1508.8271	28.00	-2.23	44206.185	3.0	50832.039	3.0
1508.9007	7.00	-2.00	107445.622	1.5	114071.153	1.5
1508.9148	26.00	-4.03	47929.981	4.0	54555.450	4.0
1508.9601	23.00	-8.92	9824.580	2.5	16449.850	2.5
1509.0307	10.01	-4.84	274364.570	2.5	280989.530	1.5
1509.0339	18.00	-1.93	117183.654	2.0	123808.600	2.0
1509.0740	9.00	-2.91	129484.660	1.5	136109.430	.5
1509.1856	28.00	-2.94	51343.800	2.0	57968.080	3.0
1509.1870	14.00	-1.83	57017.496	2.0	63641.770	3.0
1509.2471	21.00	-2.25	33278.640	3.5	39902.650	3.5
1509.2722	18.01	-.17	203501.800	2.5	210125.700	2.5
1509.3018	28.01	-4.25	106283.160	2.5	112906.930	1.5
1509.3125	28.00	-3.64	50142.800	3.0	56766.523	4.0
1509.4294	17.00	.14	91089.450	3.5	97712.660	4.5
1509.5913	9.01	-2.86	229550.110	2.0	236172.610	2.0
1509.7713	28.00	-1.32	45418.858	2.0	52040.568	2.0
1509.8092	7.00	-4.74	104664.100	1.5	111285.644	1.5
1509.9104	27.00	-4.12	48828.870	2.5	55449.970	2.5
1509.9538	26.00	-3.09	51076.680	4.0	57697.590	4.0
1509.9743	9.01	-2.39	229551.790	1.0	236172.610	2.0
1510.0402	7.00	-2.57	107588.469	.5	114209.000	.5
1510.2024	9.01	-4.04	229550.110	2.0	236169.930	1.0
1510.2617	27.00	-3.61	48546.070	1.5	55165.630	2.5
1510.2868	28.01	-1.69	98969.440	5.5	105588.890	4.5
1510.3051	28.01	-3.03	113177.610	3.5	119796.980	2.5
1510.3368	17.00	-1.19	96482.889	2.5	103102.120	1.5
1510.3924	17.00	-1.33	94973.683	.5	101592.670	.5
1510.4360	28.00	-2.42	51124.800	3.0	57743.596	3.0
1510.4436	22.00	-4.41	31205.985	3.0	37824.748	4.0
1510.4716	28.01	-1.51	114942.420	1.5	121561.060	.5
1510.5148	17.00	-.06	96482.889	2.5	103101.340	2.5
1510.5858	9.01	-2.86	229551.790	1.0	236169.930	1.0
1510.5878	14.00	-2.45	57468.239	2.0	64086.370	1.0
1510.6508	28.00	-2.17	42653.723	2.0	49271.578	3.0
1510.7100	7.00	-3.74	104654.000	.5	111271.596	.5
1510.7974	26.00	-4.61	53747.547	3.0	60364.760	3.0
1510.8236	17.00	-.27	84132.262	2.5	90749.360	2.5
1510.9335	26.00	-3.83	45220.662	3.0	51837.279	3.0
1511.0317	18.00	-2.26	114641.040	2.0	121257.227	1.0
1511.0922	17.00	-.26	96486.198	1.5	103102.120	1.5
1511.1612	28.01	-4.93	128964.630	4.5	135580.250	4.5
1511.1931	9.01	-2.74	229554.450	0.0	236169.930	1.0
1511.2347	7.00	-2.09	104886.070	.5	111501.368	1.5
1511.2703	17.00	-1.18	96486.198	1.5	103101.340	2.5
1511.3841	28.00	-2.29	47139.392	2.0	53754.036	2.0
1511.3842	18.00	-4.31	116942.815	3.0	123557.459	3.0
1511.4191	17.00	-2.03	91089.450	3.5	97703.941	2.5
1511.5615	26.00	-3.73	47452.702	4.0	54066.570	4.0
1511.5930	28.01	-4.96	128966.520	5.5	135580.250	4.5
1511.6387	6.00	-1.96	81105.030	1.0	87718.560	1.0
1511.6700	28.00	-1.25	42790.027	2.0	49403.420	1.0
1511.7027	28.01	-4.70	101754.800	2.5	108368.050	2.5
1511.7580	22.00	-1.93	18825.890	1.0	25438.898	2.0
1511.7987	23.01	-4.69	30306.400	3.0	36919.230	3.0
1511.8285	26.00	-3.06	51361.460	3.0	57974.160	2.0
1511.8285	22.00	-1.54	41906.510	2.0	48519.210	2.0
1511.8285	30.02	-3.76	258171.200	5.0	264783.900	4.0
1511.8422	26.00	-4.71	51201.330	2.0	57813.970	3.0
1511.9222	17.00	-4.69	91127.030	2.5	97739.320	1.5
1511.9826	26.00	-.66	45333.834	2.0	51945.860	1.0
1512.0381	26.00	-2.63	43922.652	3.0	50534.435	3.0
1512.0777	14.00	-1.34	54245.020	0.0	60856.630	1.0
1512.1054	26.00	-3.32	47136.058	2.0	53747.547	3.0
1512.1083	26.00	.09	45333.834	2.0	51945.310	2.0
1512.1452	26.00	.37	43434.585	3.0	50045.900	2.0
1512.1738	28.01	-1.37	115081.360	4.5	121692.550	4.5
1512.1944	15.01	-4.13	132133.200	3.0	138744.300	3.0
1512.2549	14.00	-1.23	54205.090	2.0	60815.925	2.0
1512.2629	19.02	-2.16	237912.200	1.5	244523.000	2.5
1512.2817	22.00	-4.31	28828.510	2.0	35439.228	1.0
1512.2950	26.00	-4.93	54066.570	4.0	60677.230	5.0
1512.3087	23.00	-3.88	32788.220	4.5	39398.820	3.5
1512.4277	6.00	-3.74	78340.280	1.0	84950.360	2.0
1512.4739	7.00	-3.14	104716.920	3.5	111326.798	2.5
1512.5730	26.00	-3.62	44760.739	1.0	51370.184	2.0
1512.5741	28.01	-2.94	115565.980	2.5	122175.420	2.5
1512.7870	24.00	-3.97	48210.040	1.0	54818.550	2.0
1512.8557	21.00	-4.44	31172.620	1.5	37780.830	1.5
1512.8603	23.00	-2.84	32988.820	3.5	39597.010	4.5
1512.8648	26.01	-4.13	54904.500	3.5	61512.670	4.5
1512.9999	9.00	-3.34	129484.660	1.5	136092.240	2.5
1513.0892	28.01	-2.86	115085.360	3.5	121692.550	4.5
1513.1696	18.00	-4.75	118459.662	1.0	125066.501	2.0
1513.2221	28.01	.05	122812.970	3.5	129419.580	4.5
1513.2725	28.01	-1.79	100475.820	3.5	107082.210	2.5
1513.2839	6.00	-2.32	81105.030	1.0	87711.370	0.0
1513.3700	14.00	-2.46	56978.256	1.0	63584.220	1.0
1513.3985	23.00	-4.27	31398.090	2.5	38003.930	1.5
1513.4282	15.01	-3.02	106001.990	1.0	112607.700	2.0
1513.4534	30.02	-2.25	258178.300	4.0	264783.900	4.0
1513.5373	12.00	-1.59	51872.526	1.0	58477.760	2.0
1513.5497	9.00	-1.72	129484.660	1.5	136089.840	1.5
1513.5944	26.00	-.30	47005.455	5.0	53610.440	4.0
1513.6984	7.00	-1.82	107588.469	.5	114193.000	1.5
1513.7068	12.00	-1.81	51872.526	1.0	58477.020	1.0
1513.7330	22.00	-3.92	37976.780	2.0	44581.160	2.0
1513.7536	23.01	-2.55	66303.880	3.0	72908.170	3.0
1513.7827	12.00	-2.28	51872.526	1.0	58476.689	0.0
1513.8391	7.00	-3.33	107628.283	1.5	114232.200	1.5
1513.8751	22.00	-4.40	42311.310	3.0	48915.070	2.0
1513.9749	26.00	-4.79	51668.175	4.0	58271.500	5.0
1513.9774	28.00	-2.41	43933.428	2.0	50536.742	1.0
1514.0081	6.00	-2.06	81105.030	1.0	87708.210	2.0
1514.1159	25.00	-1.68	49888.080	3.5	56490.790	2.5
1514.1379	7.00	-3.31	104683.030	2.5	111285.644	1.5
1514.1411	26.00	-3.48	44378.420	1.0	50981.020	0.0
1514.1755	22.00	-1.46	41985.830	3.0	48588.280	3.0
1514.4049	28.01	-2.18	116833.150	4.5	123434.600	4.5
1514.4393	28.01	-2.58	129988.050	2.5	136589.350	3.5
1514.4650	26.00	-.08	45509.112	1.0	52110.300	1.0
1514.4659	14.00	-2.33	56978.256	1.0	63579.440	0.0
1514.5724	24.00	-2.70	48217.830	2.0	54818.550	2.0
1514.5861	28.01	-4.89	121294.670	4.5	127895.330	3.5
1514.5999	23.01	-3.43	30318.630	4.0	36919.230	3.0
1514.6389	28.01	-4.78	128958.370	3.5	135558.800	4.5
1514.7697	24.00	-4.41	35618.510	1.0	42218.370	0.0
1514.8227	17.00	-4.36	95400.731	2.5	102000.360	1.5
1514.8916	26.00	-4.55	38995.717	1.0	45595.046	0.0
1515.0314	15.00	-1.05	65787.380	3.5	72386.100	2.5
1515.0619	26.00	-2.46	47960.973	4.0	54559.560	3.0
1515.1324	28.01	-3.40	127331.600	2.5	133929.880	3.5
1515.1830	28.01	-3.98	128960.740	5.5	135558.800	4.5
1515.2355	7.00	-2.43	104615.440	1.5	111213.271	1.5
1515.2962	26.00	-4.74	44551.325	3.0	51148.892	2.0
1515.3382	18.00	-2.60	118469.117	2.0	125066.501	2.0
1515.4103	25.00	.58	49415.350	2.5	56012.420	3.5
1515.4356	7.01	-.16	196592.070	1.0	203189.030	1.0
1515.4379	28.01	-3.16	122270.050	3.5	128867.000	3.5
1515.7159	26.00	-3.96	53769.020	4.0	60364.760	3.0
1515.7251	17.01	-2.14	141010.000	2.0	147605.700	3.0
1515.7849	25.00	.68	39431.310	3.5	46026.750	4.5
1515.8400	18.01	-3.22	199525.150	1.5	206120.350	2.5
1515.8722	6.00	-3.83	78340.280	1.0	84935.340	1.0
1515.9513	26.00	-2.91	44285.436	2.0	50880.152	1.0
1515.9664	24.00	-3.78	48210.040	1.0	54804.690	1.0
1516.1021	24.00	-4.93	48558.570	2.0	55152.630	2.0
1516.1221	22.00	-4.67	20209.444	2.0	26803.417	2.0
1516.1543	17.00	-.51	83894.037	3.5	90487.870	3.5
1516.2125	9.00	-.79	129484.660	1.5	136078.240	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1516.3113	19.00	-.69	21534.700	2.5	28127.850	2.5
1516.3113	19.00	.61	21534.700	2.5	28127.850	3.5
1516.3918	18.01	-2.45	183914.560	.5	190507.360	1.5
1516.4470	25.00	.45	49415.350	2.5	56007.910	2.5
1516.4641	20.00	-3.67	42170.214	2.0	48762.700	2.0
1516.4641	20.00	-2.77	42170.214	2.0	48762.700	1.0
1516.4700	28.01	-4.50	130174.030	1.5	136766.490	2.5
1516.4746	28.01	-3.39	122270.050	3.5	128862.490	4.5
1516.5114	28.01	-3.99	128966.520	4.5	135558.800	4.5
1516.5114	28.01	-4.06	128966.520	5.5	135558.800	4.5
1516.5299	13.01	-.29	142607.000	2.0	149199.200	3.0
1516.5299	15.03	-3.88	296757.800	2.0	303350.000	3.0
1516.5432	20.00	-2.77	42170.558	3.0	48762.700	2.0
1516.5432	20.00	-3.50	42170.558	3.0	48762.700	3.0
1516.6508	20.00	-2.44	42171.026	4.0	48762.700	3.0
1516.7185	28.01	-1.73	113321.950	4.5	119913.330	4.5
1516.7461	28.01	-1.75	100490.950	1.5	107082.210	2.5
1516.7829	28.01	-4.52	109148.050	4.5	115739.150	4.5
1516.7968	23.01	-2.76	30613.970	4.0	37205.010	3.0
1516.8129	23.00	-3.41	37475.080	3.5	44066.050	3.5
1516.8221	28.01	-4.20	115108.090	2.5	121699.020	1.5
1516.8359	28.01	-1.54	114970.190	.5	121561.060	.5
1516.8405	19.00	.46	21537.000	1.5	28127.850	2.5
1516.9233	25.00	-4.66	56490.790	2.5	63081.280	2.5
1516.9510	8.01	-2.54	248514.230	1.5	255104.600	2.5
1517.0783	26.00	-3.92	44243.668	5.0	50833.485	5.0
1517.1052	26.01	-4.50	93328.600	1.5	99918.300	1.5
1517.1478	28.00	-2.22	42585.296	4.0	49174.811	4.0
1517.1733	18.00	-2.24	111818.090	1.0	118407.494	1.0
1517.2019	28.01	-3.65	99418.610	3.5	106007.890	2.5
1517.2800	18.00	-.87	107054.319	0.0	113643.260	1.0
1517.2942	26.00	-4.93	47966.571	3.0	54555.450	4.0
1517.3159	26.00	-3.97	44022.518	4.0	50611.303	3.0
1517.3288	14.00	-3.18	57295.881	0.0	63884.610	1.0
1517.3582	28.00	-1.92	44262.619	2.0	50851.220	1.0
1517.3641	7.00	-4.42	104615.440	1.5	111204.016	2.5
1517.5381	27.00	-3.69	48317.170	3.5	54904.990	2.5
1517.6328	17.00	-3.00	95400.731	2.5	101988.140	2.5
1517.6913	26.00	.16	47755.485	3.0	54342.640	2.0
1517.7178	28.01	-3.35	122144.990	2.5	128732.030	1.5
1517.7593	24.00	-3.91	48217.830	2.0	54804.690	1.0
1517.8791	24.00	-2.30	27176.220	1.0	33762.560	0.0
1517.8930	23.01	-4.33	30673.140	2.0	37259.420	1.0
1517.9414	18.01	-2.51	151087.250	2.5	157673.320	2.5
1517.9483	24.00	-3.50	44068.720	3.0	50654.760	2.0
1518.0059	18.01	-.64	202429.840	3.5	209015.630	3.5
1518.2157	17.00	-2.84	91089.450	3.5	97674.330	2.5
1518.2180	28.01	-4.95	130147.870	.5	136732.740	1.5
1518.2706	17.00	-.84	91089.450	3.5	97674.092	3.5
1518.2964	9.00	-1.91	129381.860	2.5	135966.390	1.5
1518.3194	28.01	-3.27	130942.300	1.5	137526.730	2.5
1518.4325	18.01	-1.76	173347.830	1.5	179931.770	1.5
1518.4509	28.01	-3.16	122270.050	3.5	128853.910	4.5
1518.4601	28.01	-3.81	122270.050	3.5	128853.870	2.5
1518.4852	17.00	-3.60	84485.309	1.5	91069.020	.5
1518.5044	17.00	-1.37	88080.042	2.5	94663.670	1.5
1518.5189	26.00	-3.67	40421.890	4.0	47005.455	5.0
1518.5551	7.00	-2.90	104615.440	1.5	111198.848	.5
1518.6100	28.01	-3.77	115592.250	1.5	122175.420	2.5
1518.6663	22.00	-2.59	15156.787	4.0	21739.713	5.0
1518.7762	22.00	-3.29	39662.150	1.0	46244.600	2.0
1518.8055	22.00	-2.65	18911.399	2.0	25493.722	2.0
1518.8569	28.01	-4.74	130184.390	2.5	136766.490	2.5
1518.9100	24.00	-3.33	44080.900	2.0	50662.770	1.0
1519.0092	28.01	-1.98	114874.880	2.5	121456.320	1.5
1519.0485	25.00	.28	49415.350	2.5	55996.620	1.5
1519.0923	23.00	-2.88	32660.260	2.5	39241.340	2.5
1519.1034	7.00	-2.49	107445.622	1.5	114026.654	.5
1519.1762	7.00	-2.89	107628.283	1.5	114209.000	.5
1519.3093	22.00	-1.54	42092.520	4.0	48672.660	4.0
1519.3347	28.01	-4.47	72375.420	1.5	78955.450	1.5
1519.3416	15.01	-2.79	132164.300	2.0	138744.300	3.0
1519.3481	20.00	-1.83	41679.008	1.0	48258.980	2.0
1519.4825	23.01	-3.18	44159.430	2.0	50738.820	1.0
1519.5052	20.00	-2.36	41679.008	1.0	48258.300	1.0
1519.5306	28.00	-2.56	42605.964	3.0	49185.146	2.0
1519.5680	28.01	-2.63	115120.000	2.5	121699.020	1.5
1519.5703	28.01	-3.21	115565.980	2.5	122144.990	2.5
1519.5703	18.00	-2.57	119212.930	3.0	125791.940	2.0
1519.6303	8.01	-3.91	246028.950	3.5	252607.700	4.5
1519.7019	22.00	-4.70	42146.390	1.0	48724.830	1.0
1519.7287	12.00	-1.29	54250.086	1.0	60828.410	2.0
1519.7343	18.01	-3.91	199525.150	1.5	206103.450	1.5
1519.8152	22.00	-4.90	42146.390	1.0	48724.340	2.0
1519.8161	17.00	-1.28	91089.450	3.5	97667.396	3.5
1519.8336	28.01	-4.19	128960.740	5.5	135538.610	5.5
1519.8336	28.01	-3.66	128960.740	6.5	135538.610	5.5
1519.8399	7.00	-3.79	104683.030	2.5	111260.873	3.5
1519.8729	18.01	-2.43	195031.120	2.5	201608.820	3.5
1519.9658	28.00	-1.66	44112.192	1.0	50689.490	2.0
1519.9700	29.01	-4.26	129759.600	1.0	136336.880	1.0
1519.9884	17.00	-.48	91089.450	3.5	97666.650	4.5
1520.0509	28.01	-4.33	130942.300	1.5	137519.230	2.5
1520.0552	17.00	-.69	91127.030	2.5	97703.941	2.5
1520.0587	26.00	-3.63	47555.584	1.0	54132.480	1.0
1520.0726	22.00	-5.01	12118.394	4.0	18695.230	4.0
1520.1098	18.00	-2.27	118906.665	2.0	125483.340	2.0
1520.1248	17.00	-1.83	91127.030	2.5	97703.640	1.5
1520.1435	17.00	-4.22	94468.857	.5	101045.386	1.5
1520.1514	18.00	-3.42	118906.665	2.0	125483.160	3.0
1520.1701	26.00	-4.65	44285.436	2.0	50861.850	3.0
1520.2578	18.00	-1.14	118906.665	2.0	125482.700	3.0
1520.2843	23.00	-3.82	37342.660	2.5	43918.580	2.5
1520.3000	7.04	-.71	477851.000	0.0	484428.649	0.0
1520.3029	19.00	-2.43	27397.100	2.5	33972.940	1.5
1520.3075	17.00	-4.07	84988.480	1.5	91564.300	.5
1520.3091	14.00	-1.56	56780.427	1.0	63356.240	2.0
1520.3388	12.00	-1.77	54252.726	2.0	60828.410	2.0
1520.3883	18.01	-3.46	199679.760	2.5	206255.230	2.5
1520.4554	27.00	-3.31	47128.960	2.5	53704.140	2.5
1520.4617	17.00	-3.77	95612.357	1.5	102187.510	2.5
1520.4624	21.00	-1.62	30573.100	.5	37148.250	1.5
1520.4746	26.00	-4.39	48304.623	2.0	54879.720	2.0
1520.5387	12.01	-.53	105622.340	.5	112197.160	1.5
1520.5433	19.00	-3.38	27398.140	1.5	33972.940	1.5
1520.6055	7.00	-2.30	107588.469	.5	114163.000	1.5
1520.6821	19.00	-2.68	27398.140	1.5	33972.340	.5
1520.7330	28.01	-4.59	128964.630	4.5	135538.610	5.5
1520.7607	24.00	-3.20	44080.900	2.0	50654.760	2.0
1520.7630	27.00	-2.62	39649.160	3.5	46223.010	4.5
1520.7630	24.00	-3.88	44088.920	1.0	50662.770	1.0
1520.7681	26.00	.78	43163.282	4.0	49737.110	5.0
1520.7924	22.00	-1.13	37659.927	3.0	44233.650	3.0
1520.8209	26.00	-2.18	53353.020	6.0	59926.620	5.0
1520.9058	28.00	-.96	42585.296	4.0	49158.529	5.0
1520.9204	27.00	-4.59	47128.960	2.5	53702.130	3.5
1520.9551	28.01	-4.71	129503.240	4.5	136076.260	4.5
1521.1256	26.00	-4.31	40534.180	3.0	47106.463	4.0
1521.1263	24.00	-3.47	44088.920	1.0	50661.200	0.0
1521.1703	28.01	-4.19	128966.520	5.5	135538.610	5.5
1521.2166	9.00	-4.02	130016.100	2.5	136587.990	1.5
1521.2397	28.01	-4.03	116275.810	3.5	122847.600	3.5
1521.2997	7.00	-2.12	107588.469	.5	114160.000	1.5
1521.3092	14.00	-1.86	57450.580	3.0	64022.070	3.0
1521.3184	38.01	.03	60991.700	0.0	67564.946	0.0
1521.3184	38.01	-1.27	60991.700	0.0	67564.946	0.0
1521.3300	28.01	-4.11	127331.600	2.5	133903.000	1.5
1521.3323	28.01	-3.44	108548.610	1.5	115120.000	2.5
1521.4874	14.00	-2.81	57450.580	3.0	64021.300	2.0
1521.5106	27.00	-3.33	48334.370	1.5	54904.990	2.5
1521.5143	17.00	-3.10	94482.236	2.5	101052.840	2.5
1521.5254	17.00	-4.77	94468.857	.5	101039.413	.5
1521.5592	7.01	-.37	196592.070	1.0	203162.480	0.0
1521.5729	26.00	-4.19	44760.739	1.0	51331.090	2.0
1521.6611	24.00	-3.35	44092.800	0.0	50662.770	1.0
1521.6813	26.00	-3.45	44411.137	1.0	50981.020	0.0
1521.7631	14.00	-1.06	57450.580	3.0	64020.110	4.0
1521.7654	26.00	-4.31	54237.200	4.0	60806.720	3.0
1521.7793	25.00	.58	39431.310	3.5	46000.770	3.5
1521.8256	28.01	-4.45	130197.230	1.5	136766.490	2.5
1521.9275	14.00	-1.97	57450.580	3.0	64019.400	3.0
1521.9361	26.00	.30	45061.287	3.0	51630.070	2.0
1521.9669	24.00	-3.55	48636.140	3.0	55204.790	3.0
1521.9762	28.01	-4.86	128944.310	2.5	135512.920	2.5
1522.0969	28.00	-2.32	50142.800	3.0	56710.889	2.0
1522.1831	7.00	-3.41	107628.283	1.5	114196.000	2.5
1522.2195	28.01	-4.95	130331.780	1.5	136899.340	2.5
1522.2218	28.01	-4.18	130331.780	1.5	136899.330	1.5
1522.2288	28.01	-1.45	113321.950	4.5	119889.470	5.5
1522.2473	12.01	-1.23	105629.720	1.5	112197.160	1.5
1522.2705	12.01	-.28	105629.720	1.5	112197.060	2.5
1522.4133	14.00	-2.10	57017.496	2.0	63584.220	1.0
1522.4328	24.00	-2.06	48251.910	3.0	54818.550	2.0
1522.4768	28.01	-4.98	113623.100	.5	120189.550	.5
1522.4866	14.00	-4.71	57798.072	2.0	64364.480	2.0
1522.6183	24.00	-3.07	44088.920	1.0	50654.760	2.0
1522.6252	17.00	-1.88	91173.510	1.5	97739.320	1.5
1522.6252	18.01	-4.42	199679.760	2.5	206245.570	3.5
1522.6716	27.00	-3.41	47128.960	2.5	53694.570	3.5
1522.6902	17.00	-1.50	91173.510	1.5	97739.040	.5
1522.8057	37.00	-1.60	23715.081	0.0	30281.907	0.0
1522.8727	28.00	-1.71	42767.900	3.0	49332.643	4.0
1522.8788	7.00	-3.06	107628.283	1.5	114193.000	1.5
1522.9129	26.00	-3.00	44415.057	4.0	50979.627	4.0
1522.9275	28.00	-1.59	47139.392	2.0	53703.899	1.0
1522.9558	26.00	-4.05	44243.668	5.0	50808.053	4.0
1523.0521	18.01	-2.26	183090.810	1.5	189654.780	2.5
1523.0544	17.00	-2.58	94663.670	1.5	101227.630	.5
1523.0713	10.00	-1.07	152970.733	0.0	159534.620	1.0
1523.1593	12.00	-3.77	54192.256	3.0	60755.764	2.0
1523.1593	12.00	-2.44	54192.256	3.0	60755.764	3.0
1523.1593	12.00	-2.64	54192.256	3.0	60755.764	3.0
1523.1593	12.00	-1.16	54192.256	3.0	60755.764	4.0
1523.1681	12.00	-2.40	54192.294	2.0	60755.764	2.0
1523.1681	12.00	-1.40	54192.294	2.0	60755.764	3.0
1523.1681	12.00	-2.92	54192.294	2.0	60755.764	3.0
1523.1704	22.01	-3.24	25193.040	2.5	31756.500	1.5
1523.1779	12.00	-1.50	54192.336	1.0	60755.764	2.0
1523.2076	23.01	-4.41	30641.710	3.0	37205.010	3.0
1523.2424	17.00	-1.89	94482.236	2.5	101045.386	1.5
1523.2749	28.01	-3.81	133445.750	4.5	140008.760	3.5
1523.3419	18.00	-3.86	116942.815	3.0	123505.536	2.0
1523.4599	14.00	-1.03	57198.027	3.0	63760.240	3.0
1523.4759	16.00	-2.01	71350.449	1.0	77912.593	1.0
1523.4838	25.00	-2.91	45156.110	2.5	51718.220	1.5
1523.6208	28.01	-4.24	116275.810	3.5	122837.330	4.5
1523.7622	26.00	-2.61	46720.824	4.0	53281.735	5.0
1523.7740	27.00	-4.72	48828.870	2.5	55389.730	1.5
1523.8630	26.00	-3.42	48122.913	3.0	54683.390	4.0
1523.8739	18.00	-3.28	118512.170	0.0	125072.600	1.0
1523.8762	28.01	-1.86	133445.750	4.5	140006.170	4.5
1523.9866	28.00	-2.72	42767.900	3.0	49327.845	2.0
1524.0202	15.01	.52	125129.700	3.0	131689.500	4.0
1524.0528	17.00	-3.74	94663.670	1.5	101223.330	2.5
1524.0946	28.01	-2.18	108548.610	1.5	115108.090	2.5
1524.1109	10.01	-4.32	246394.130	2.5	252953.540	1.5
1524.1155	24.00	-2.81	44068.720	3.0	50628.110	3.0
1524.1432	7.00	-2.98	104654.000	.5	111213.271	1.5
1524.2224	24.00	-4.41	24299.890	2.0	30858.820	2.0
1524.2735	28.01	-4.74	130174.030	1.5	136732.740	1.5
1524.2759	30.02	-3.97	257678.700	2.0	264237.400	1.0
1524.3193	26.00	-4.85	40534.180	3.0	47092.693	3.0
1524.3223	22.00	-2.18	39686.100	2.0	46244.600	2.0
1524.3363	29.01	-2.88	115665.400	1.0	122223.840	0.0
1524.3589	14.00	-.60	54257.582	3.0	60815.925	2.0
1524.4223	18.00	-3.72	116999.389	2.0	123557.459	3.0
1524.4292	6.00	-3.61	78293.490	1.0	84851.530	1.0
1524.4727	26.00	.28	45061.287	3.0	51619.140	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1524.6422	26.00	-3.67	33412.706	3.0	39969.830	3.0
1524.6478	28.01	-3.17	122270.050	3.5	128827.150	3.5
1524.7408	30.02	-4.00	258075.700	3.0	264632.400	3.0
1524.7617	28.01	-3.83	122175.420	2.5	128732.030	1.5
1525.0285	26.00	-4.44	45281.816	2.0	51837.279	3.0
1525.0385	27.00	-3.68	45904.680	1.5	52460.100	2.5
1525.0432	25.00	-1.25	50012.530	2.5	56567.930	1.5
1525.1297	26.00	-3.52	47831.132	2.0	54386.160	1.0
1525.1367	26.00	-2.99	44664.061	2.0	51219.059	3.0
1525.1642	24.00	-4.70	24303.940	3.0	30858.820	2.0
1525.3852	23.00	-3.72	17054.870	2.5	23608.800	1.5
1525.4183	14.00	-3.28	57798.072	2.0	64351.860	1.0
1525.4241	28.00	-2.02	42621.048	3.0	49174.811	4.0
1525.4349	7.00	-1.62	107628.283	1.5	114182.000	2.5
1525.4467	22.00	-4.66	18141.229	5.0	24694.895	4.0
1525.5319	17.01	-3.62	152233.100	2.0	158786.400	3.0
1525.6623	28.01	-1.68	115592.250	1.5	122144.990	2.5
1525.6790	26.00	-4.40	43922.652	3.0	50475.320	4.0
1525.8000	7.04	-1.66	477851.000	0.0	484404.939	0.0
1525.8159	23.00	-4.36	32846.740	2.5	39398.820	3.5
1525.8159	23.00	-2.76	32846.740	2.5	39398.820	3.5
1525.8322	27.00	-4.86	48837.720	.5	55389.730	1.5
1525.9394	26.00	-2.68	47017.170	3.0	53568.720	2.0
1526.0675	10.01	-1.88	302425.870	1.5	308976.870	.5
1526.0955	18.00	-2.49	114641.040	2.0	121191.920	2.0
1526.1090	22.00	.61	37824.748	4.0	44375.570	5.0
1526.1120	16.00	-2.55	71350.449	1.0	77901.258	0.0
1526.1730	26.00	-4.45	47197.000	2.0	53747.547	3.0
1526.1793	28.01	-3.95	129842.330	2.5	136392.850	3.5
1526.2702	25.00	.45	39431.310	3.5	45981.440	2.5
1526.2842	27.00	-3.08	48615.560	2.5	55165.630	2.5
1526.2958	17.00	-1.10	84988.480	1.5	91538.500	1.5
1526.3203	26.00	-4.35	45220.662	3.0	51770.577	3.0
1526.3662	7.00	-3.26	104615.440	1.5	111165.158	1.5
1526.4753	23.00	-4.27	32692.090	3.5	39241.340	2.5
1526.4937	7.00	-2.88	104664.100	1.5	111213.271	1.5
1526.5103	15.01	.81	125391.900	4.0	131941.000	5.0
1526.5941	28.01	-4.59	128912.810	2.5	135461.550	2.5
1526.6851	28.01	-4.73	130184.390	2.5	136732.740	1.5
1526.6949	26.00	-3.99	47831.132	2.0	54379.440	3.0
1526.7779	28.00	-2.77	44206.185	3.0	50754.137	2.0
1526.8973	7.01	.26	196711.540	2.0	203258.980	2.0
1526.9300	17.00	-1.32	91127.030	2.5	97674.330	2.5
1526.9509	24.00	-3.00	44080.900	2.0	50628.110	3.0
1526.9854	17.00	-.11	91127.030	2.5	97674.092	3.5
1527.0419	23.02	-3.82	154480.500	4.5	161027.320	4.5
1527.0652	26.00	-4.12	47420.000	2.0	53966.720	2.0
1527.1818	28.00	-3.66	49327.560	3.0	55873.780	2.0
1527.2425	18.01	-.39	202149.110	2.5	208695.070	1.5
1527.2446	28.00	-1.66	42767.900	3.0	49313.851	3.0
1527.2623	26.00	-.59	47755.485	3.0	54301.360	4.0
1527.2658	27.00	-4.04	48443.760	2.5	54989.620	3.5
1527.2779	28.00	-1.62	47208.228	1.0	53754.036	2.0
1527.4172	17.00	-3.59	95313.749	1.5	101858.960	2.5
1527.5020	7.00	-2.70	104654.000	.5	111198.848	.5
1527.5629	26.00	-4.00	47831.132	2.0	54375.719	2.0
1527.5904	17.00	-3.64	95400.731	2.5	101945.200	1.5
1527.5944	14.00	-2.68	57541.918	1.0	64086.370	1.0
1527.6261	28.00	-2.99	49032.589	2.0	55576.905	3.0
1527.6299	30.02	-3.26	258239.600	4.0	264783.900	4.0
1527.6673	9.00	-2.60	129607.070	.5	136151.210	.5
1527.6718	18.01	-.63	182222.030	1.5	188766.150	2.5
1527.7108	7.00	-2.49	104716.920	3.5	111260.873	3.5
1527.7207	26.00	-3.04	47693.289	3.0	54237.200	4.0
1527.7232	6.00	-2.42	78307.630	2.0	84851.530	1.0
1527.7559	27.00	-2.51	48317.170	3.5	54860.930	4.5
1527.8353	28.01	-2.51	113623.100	.5	120166.520	1.5
1527.8703	23.00	-3.31	15770.720	4.5	22313.990	5.5
1527.9773	14.00	-1.23	54313.818	1.0	60856.630	1.0
1528.1763	10.01	-4.81	306262.770	1.5	312804.730	2.5
1528.2765	7.00	-2.06	107588.469	.5	114130.000	.5
1528.3399	18.01	-1.54	184191.710	.5	190732.970	.5
1528.3922	22.00	-1.00	37538.804	2.0	44079.840	2.0
1528.4894	28.01	-3.86	130225.870	3.5	136766.490	2.5
1528.5487	17.00	-1.01	91127.030	2.5	97667.396	3.5
1528.6539	7.00	-3.75	104664.100	1.5	111204.016	2.5
1528.8369	16.00	-1.93	71350.449	1.0	77889.582	2.0
1528.8437	37.00	-.54	12816.545	0.0	19357.436	0.0
1528.8751	28.01	-3.78	130227.520	2.5	136766.490	2.5
1528.9480	37.00	.42	12816.545	0.0	19356.990	0.0
1528.9522	28.01	-2.54	99442.860	4.5	105981.500	4.5
1529.0107	18.01	-2.94	173393.380	2.5	179931.770	1.5
1529.0991	28.00	-1.43	42621.048	3.0	49159.060	2.0
1529.1274	16.00	-1.54	73910.309	1.0	80448.200	2.0
1529.1370	23.01	-3.50	44200.970	1.0	50738.820	1.0
1529.1884	28.01	-4.71	106369.300	1.5	112906.930	1.5
1529.2111	28.00	-2.14	42790.027	2.0	49327.560	3.0
1529.3452	27.00	-4.71	40827.770	1.5	47364.730	1.5
1529.4060	15.00	-2.52	75353.400	1.5	81890.100	2.5
1529.4177	25.00	-3.17	44978.980	1.5	51515.630	2.5
1529.4912	26.00	-4.98	29320.050	1.0	35856.386	2.0
1529.4984	26.00	-4.35	44511.795	2.0	51048.100	1.0
1529.6215	26.00	-2.16	40842.130	3.0	47377.909	4.0
1529.6868	17.01	-4.34	152233.100	2.0	158768.600	2.0
1529.8060	14.00	-2.29	57328.789	1.0	63863.780	2.0
1529.8629	7.00	-3.61	104664.100	1.5	111198.848	.5
1529.8702	7.00	-1.60	107628.283	1.5	114163.000	1.5
1529.8982	14.00	-3.66	56690.903	2.0	63225.500	2.0
1529.9026	55.00	-1.70	21765.650	0.0	28302.014	0.0
1529.9860	16.00	-1.32	73913.978	2.0	80448.200	2.0
1530.0848	26.00	-3.60	53830.960	3.0	60364.760	3.0
1530.1457	18.00	-3.04	113716.610	3.0	120250.150	3.0
1530.1457	18.00	.35	113716.610	3.0	120250.150	4.0
1530.1832	22.00	-2.29	41985.830	3.0	48519.210	2.0
1530.2300	28.01	-3.37	122270.050	3.5	128803.230	2.5
1530.2839	29.01	-3.62	130386.400	2.0	136919.350	3.0
1530.2944	26.00	-4.19	53393.715	4.0	59926.620	5.0
1530.2956	6.00	-3.04	81311.010	0.0	87843.910	1.0
1530.4043	17.00	-4.33	95700.874	3.5	102233.310	2.5
1530.4066	26.00	-2.47	44166.240	3.0	50698.666	2.0
1530.4807	23.02	-4.44	155853.000	2.5	162385.110	3.5
1530.5320	17.00	-3.65	95313.749	1.5	101845.640	1.5
1530.5728	7.00	-2.27	107628.283	1.5	114160.000	2.5
1530.5728	7.00	-3.92	107628.283	1.5	114160.000	1.5
1530.5744	22.00	-4.02	35652.950	3.0	42184.660	4.0
1530.6096	18.01	-4.12	205194.040	1.5	211725.600	2.5
1530.7010	38.01	-.02	60991.700	0.0	67524.655	0.0
1530.7338	28.01	-4.99	111783.790	3.5	118314.820	2.5
1530.8041	28.01	-2.62	131032.010	2.5	137562.740	3.5
1530.8322	28.01	-4.04	127331.600	2.5	133862.210	1.5
1530.8742	17.00	-.17	91173.510	1.5	97703.941	2.5
1530.9448	17.00	-.59	91173.510	1.5	97703.640	1.5
1530.9753	15.04	-.10	460363.000	1.5	466893.000	1.5
1530.9753	15.04	.85	460363.000	1.5	466893.000	2.5
1530.9753	15.04	.60	460363.000	.5	466893.000	1.5
1530.9940	27.00	-3.80	49025.420	1.5	55555.340	2.5
1531.1042	18.01	-1.05	194822.100	3.5	201351.550	2.5
1531.1394	27.00	-4.40	48753.720	1.5	55283.020	2.5
1531.1715	22.00	-1.67	39715.437	3.0	46244.600	2.0
1531.2683	25.00	-4.06	45259.170	1.5	51787.920	.5
1531.2740	22.00	-5.00	37852.434	4.0	44381.160	4.0
1531.2754	6.00	-3.41	81105.030	1.0	87633.750	2.0
1531.2773	26.00	-2.83	47017.170	3.0	53545.882	3.0
1531.3059	9.00	-4.07	130059.400	.5	136587.990	1.5
1531.3059	10.01	-4.63	306243.420	2.5	312772.010	3.5
1531.3434	22.00	-3.85	42311.310	3.0	48839.740	3.0
1531.3999	16.00	-1.18	73920.011	3.0	80448.200	2.0
1531.4091	24.00	-5.00	48458.670	2.0	54986.820	3.0
1531.4144	7.00	-2.68	104615.440	1.5	111143.567	.5
1531.5618	22.00	-2.42	18911.399	2.0	25438.898	2.0
1531.5780	18.00	-2.75	118512.170	0.0	125039.600	1.0
1531.6179	28.01	-.54	130661.320	5.5	137188.580	4.5
1531.6578	28.01	-3.46	102742.740	1.5	109269.830	1.5
1531.6672	27.00	-3.36	46329.630	2.5	52856.680	3.5
1531.7803	22.00	-4.96	33114.412	2.0	39640.980	3.0
1531.9486	22.00	-3.51	38959.499	4.0	45485.350	5.0
1532.0522	17.00	-1.55	84648.100	2.5	91173.510	1.5
1532.0896	18.01	-1.87	183985.940	1.5	190511.190	2.5
1532.0896	14.00	-1.98	56700.250	1.0	63225.500	2.0
1532.2914	18.00	-3.64	114641.040	2.0	121165.431	3.0
1532.3175	15.00	-2.84	66360.120	1.5	72884.400	2.5
1532.3339	18.01	-1.60	202149.110	2.5	208673.320	2.5
1532.4999	14.00	-1.58	57198.027	3.0	63721.530	2.0
1532.6433	26.00	-1.15	48036.667	2.0	54559.560	3.0
1532.7356	25.01	-2.02	108435.600	1.0	114958.100	0.0
1532.7519	14.00	-2.98	57468.239	2.0	63990.670	2.0
1532.7944	19.00	-3.07	27450.690	.5	33972.940	1.5
1532.8108	22.00	-4.51	41585.240	3.0	48107.420	2.0
1532.8366	10.01	-4.25	306243.420	2.5	312765.490	3.5
1532.9319	18.00	-2.22	105617.315	2.0	112138.980	2.0
1532.9354	19.00	-3.37	27450.690	.5	33972.340	.5
1532.9692	17.00	-2.36	95700.874	3.5	102222.380	3.5
1532.9895	18.01	-1.51	183985.940	1.5	190507.360	1.5
1533.0191	14.00	-1.63	54185.264	1.0	60706.558	1.0
1533.0398	17.00	-1.42	95700.874	3.5	102222.080	4.5
1533.0553	6.00	-2.10	81325.760	1.0	87846.900	0.0
1533.0915	7.00	-2.40	104683.030	2.5	111204.016	2.5
1533.1117	25.01	-2.02	108435.600	1.0	114956.500	1.0
1533.1517	23.00	-4.74	31721.730	4.5	38242.460	3.5
1533.1728	28.01	-.98	99340.550	3.5	105861.190	2.5
1533.4826	22.00	-1.21	15220.390	5.0	21739.713	5.0
1533.4875	26.00	-3.85	45220.662	3.0	51739.964	2.0
1533.4880	25.01	-1.72	108437.200	2.0	114956.500	1.0
1533.5210	6.00	-2.58	81311.010	0.0	87830.170	1.0
1533.5993	28.00	-2.71	43258.792	4.0	49777.619	3.0
1533.6033	28.01	-3.73	115565.980	2.5	122084.790	1.5
1533.7397	22.00	-4.92	36340.670	2.0	42858.900	3.0
1533.7585	6.00	-2.05	81325.760	1.0	87843.910	1.0
1533.8395	17.00	-3.77	95700.874	3.5	102218.680	2.5
1533.8527	9.00	-1.12	129937.330	1.5	136455.080	1.5
1533.8744	14.00	-3.65	50499.838	2.0	57017.496	2.0
1533.9200	28.00	-1.77	42653.723	2.0	49171.187	1.0
1533.9585	17.01	-3.53	147053.700	2.0	153571.000	1.0
1533.9727	28.01	-4.82	128944.310	2.5	135461.550	2.5
1533.9750	9.00	-1.09	129607.070	.5	136124.300	.5
1534.0151	25.00	-3.05	45013.550	2.5	51530.610	3.5
1534.0153	28.00	-4.04	44314.980	4.0	50832.039	3.0
1534.0226	7.00	-3.45	104984.340	.5	111501.368	1.5
1534.1544	7.00	-4.08	104810.330	2.5	111326.798	2.5
1534.1768	14.00	-4.11	57198.027	3.0	63714.400	2.0
1534.1822	27.00	-4.49	46186.410	1.5	52702.760	1.5
1534.1940	25.01	-2.87	108435.600	1.0	114951.900	2.0
1534.2105	22.00	-1.74	34327.960	1.0	40844.190	1.0
1534.2717	24.00	-3.75	48458.670	2.0	54974.640	2.0
1534.2996	14.00	-.89	57328.789	1.0	63844.640	0.0
1534.3070	6.00	-3.90	75253.970	1.0	81769.790	2.0
1534.3348	26.00	-4.58	45551.748	1.0	52067.450	2.0
1534.3423	27.00	-2.52	46454.950	1.5	52970.620	2.5
1534.4318	28.01	-3.99	127219.970	3.5	133735.260	2.5
1534.4403	26.00	-.22	45595.046	0.0	52110.300	1.0
1534.4459	28.01	-3.96	109269.830	1.5	115785.060	1.5
1534.4862	26.00	-3.32	44183.607	2.0	50698.666	2.0
1534.4978	28.01	-4.41	127219.970	3.5	133734.980	3.5
1534.5307	28.00	-2.28	42656.317	1.0	49171.187	1.0
1534.5708	25.01	-1.87	108437.200	2.0	114951.900	2.0
1534.5943	28.01	-4.04	116275.810	3.5	122790.410	4.5
1534.6132	6.00	-3.02	75255.270	2.0	81769.790	2.0
1534.6721	28.01	-4.32	115565.980	2.5	122080.250	2.5
1534.6979	9.00	-2.15	129937.330	1.5	136451.490	2.5
1534.7592	28.01	-2.22	114942.420	1.5	121456.320	1.5
1534.8226	26.00	-3.61	47377.909	4.0	53891.540	3.0
1534.8629	18.00	-2.10	113716.610	3.0	120230.070	2.0
1534.8782	26.00	-4.24	38995.717	1.0	45509.112	1.0
1534.8959	19.00	-2.38	27397.100	2.5	33910.420	2.5
1534.8959	19.00	-1.07	27397.100	2.5	33910.420	3.5
1534.9242	18.00	-.36	113716.610	3.0	120229.810	3.0
1534.9949	25.01	-1.49	108439.000	3.0	114951.900	2.0
1535.0420	13.01	-.43	125700.500	0.0	132213.200	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1535.0609	21.00	-1.33	30573.100	.5	37085.720	.5
1535.1339	17.00	-1.61	91906.790	2.5	98419.100	2.5
1535.1410	27.00	-3.99	46260.020	1.5	52772.300	2.5
1535.1410	19.00	-1.23	27398.140	1.5	33910.420	2.5
1535.1835	17.00	-1.75	91906.790	2.5	98418.890	3.5
1535.2266	26.00	-2.67	44022.518	4.0	50534.435	3.0
1535.3238	18.00	-1.33	107131.755	1.0	113643.260	1.0
1535.3839	6.00	-2.60	78340.280	1.0	84851.530	1.0
1535.3869	26.00	-4.07	47555.584	1.0	54066.821	2.0
1535.4310	28.01	-2.97	113321.950	4.5	119833.000	5.5
1535.4617	28.01	-2.14	114874.880	2.5	121385.800	1.5
1535.4711	14.01	-3.01	118523.120	1.5	125034.000	1.5
1535.4756	14.00	-4.02	50189.389	2.0	56700.250	1.0
1535.4876	14.01	-2.05	118523.190	2.5	125034.000	1.5
1535.5348	9.00	-2.99	129484.660	1.5	135995.270	.5
1535.5890	28.01	-2.69	111783.790	3.5	118294.170	3.5
1535.7542	10.01	-4.76	306262.770	1.5	312772.450	2.5
1535.9422	17.00	-.92	94663.670	1.5	101172.553	1.5
1535.9916	14.00	-1.85	56978.256	1.0	63486.930	1.0
1535.9949	18.01	-4.08	148842.370	2.5	155351.030	1.5
1536.1162	14.00	-1.99	48020.074	1.0	54528.220	2.0
1536.2073	23.00	-2.96	32891.060	3.5	39398.820	3.5
1536.2087	17.00	-.58	94482.236	2.5	100989.990	3.5
1536.3584	25.01	-.91	79550.280	3.0	86057.400	4.0
1536.3867	13.01	.04	125706.200	1.0	132213.200	1.0
1536.4198	12.01	-.96	105622.340	.5	112129.200	.5
1536.4387	6.00	-3.78	81325.760	1.0	87832.540	2.0
1536.4481	9.00	-4.52	129607.070	.5	136113.810	1.5
1536.4562	20.00	-3.75	42170.214	2.0	48676.920	2.0
1536.4562	20.00	-2.84	42170.214	2.0	48676.920	1.0
1536.4575	25.01	-2.87	108437.200	2.0	114943.900	3.0
1536.4599	24.00	-2.80	44050.870	4.0	50557.560	4.0
1536.4977	28.01	-3.64	129782.070	3.5	136288.600	2.5
1536.5071	28.01	-4.87	128958.370	3.5	135464.860	3.5
1536.5373	20.00	-2.85	42170.558	3.0	48676.920	2.0
1536.5373	20.00	-3.58	42170.558	3.0	48676.920	3.0
1536.5732	27.00	-5.00	48443.760	2.5	54949.970	1.5
1536.5756	30.02	-4.19	258277.700	3.0	264783.900	4.0
1536.5881	18.00	-3.72	116999.389	2.0	123505.536	2.0
1536.6479	20.00	-2.51	42171.026	4.0	48676.920	3.0
1536.7409	29.01	-2.73	139710.200	2.0	146215.700	1.0
1536.7795	28.00	-1.37	42653.723	2.0	49159.060	2.0
1536.7976	26.00	-4.10	47420.000	2.0	53925.260	1.0
1536.8071	28.01	-4.66	130227.520	2.5	136732.740	1.5
1536.8289	7.00	-2.87	104996.240	1.5	111501.368	1.5
1536.8827	25.01	-1.85	108439.000	3.0	114943.900	3.0
1536.9562	26.00	-3.22	46889.126	4.0	53393.715	4.0
1536.9985	6.00	-2.93	81325.760	1.0	87830.170	1.0
1537.1072	28.01	-1.70	131032.010	2.5	137535.960	3.5
1537.1715	28.00	-2.95	42767.900	3.0	49271.578	3.0
1537.2845	23.00	-2.92	32738.140	1.5	39241.340	2.5
1537.2892	28.01	-4.79	128958.370	3.5	135461.550	2.5
1537.2986	27.00	-4.31	48443.760	2.5	54946.900	2.5
1537.3232	26.00	.08	45333.834	2.0	51836.870	1.0
1537.3918	17.00	-.82	87979.490	3.5	94482.236	2.5
1537.3925	28.00	-3.05	42656.317	1.0	49159.060	2.0
1537.4469	22.00	.46	37659.927	3.0	44162.440	4.0
1537.4499	25.01	-1.29	108441.400	4.0	114943.900	3.0
1537.4831	9.00	-3.11	129607.070	.5	136109.430	.5
1537.4973	15.01	-.38	125129.700	3.0	131632.000	3.0
1537.5429	14.00	-1.04	54313.818	1.0	60815.925	2.0
1537.5493	25.00	-4.00	45013.550	2.5	51515.630	2.5
1537.5493	14.01	-2.37	118523.120	1.5	125025.200	.5
1537.5800	9.01	-2.95	236960.830	1.0	243462.780	2.0
1537.6348	7.00	-2.27	104825.080	2.5	111326.798	2.5
1537.6351	7.00	-2.37	107628.283	1.5	114130.000	.5
1537.6554	26.00	-4.41	38175.332	3.0	44676.963	4.0
1537.6831	14.00	-.29	50189.389	2.0	56690.903	2.0
1537.6940	14.00	-1.22	54205.090	2.0	60706.558	1.0
1537.7243	28.01	-3.36	110573.360	2.5	117074.700	3.5
1537.7432	10.01	-2.50	302475.610	.5	308976.870	.5
1537.7910	7.00	-2.58	104664.100	1.5	111165.158	1.5
1537.8473	17.00	-.56	91173.510	1.5	97674.330	2.5
1537.8615	24.00	-4.91	24286.540	1.0	30787.300	1.0
1537.8676	28.00	-2.95	42585.296	4.0	49086.030	4.0
1537.9152	26.00	-2.99	43922.652	3.0	50423.185	4.0
1538.0034	28.01	-4.91	128944.310	2.5	135444.470	3.5
1538.0117	28.00	-1.38	44206.185	3.0	50706.310	4.0
1538.0602	6.00	-2.29	81343.990	2.0	87843.910	1.0
1538.1399	22.00	-2.22	18818.230	0.0	25317.813	1.0
1538.1643	12.01	-.66	105629.720	1.5	112129.200	.5
1538.1738	14.00	-1.99	54205.090	2.0	60704.530	3.0
1538.2448	10.01	-1.46	322348.010	4.5	328847.150	3.5
1538.2685	10.01	-2.88	322348.010	3.5	328847.050	4.5
1538.2685	10.01	-1.90	322348.010	4.5	328847.050	4.5
1538.2709	17.00	-.33	92194.190	1.5	98693.220	2.5
1538.2732	25.01	-.18	79558.380	4.0	86057.400	4.0
1538.3704	17.00	-1.78	94732.300	3.5	101230.909	3.5
1538.4342	28.01	-4.71	128966.520	4.5	135464.860	3.5
1538.4981	9.01	-3.46	236960.830	1.0	243458.900	1.0
1538.6283	9.00	-.35	129937.330	1.5	136434.850	2.5
1538.6307	28.01	-1.23	99340.550	3.5	105838.060	3.5
1538.7069	14.00	-1.64	57798.072	2.0	64295.260	3.0
1539.0452	22.00	-2.50	42092.520	4.0	48588.280	3.0
1539.0663	28.00	-1.28	47208.228	1.0	53703.899	1.0
1539.1210	26.01	-4.76	93328.600	1.5	99824.040	2.5
1539.1637	25.00	-4.60	56356.210	3.5	62851.470	3.5
1539.1938	7.00	-1.38	104765.740	4.5	111260.873	3.5
1539.2916	28.01	-1.63	131032.010	2.5	137526.730	2.5
1539.4149	13.01	.26	125719.000	2.0	132213.200	1.0
1539.5202	26.00	-.12	45333.834	2.0	51827.590	2.0
1539.5571	28.01	-4.90	128950.870	3.5	135444.470	3.5
1539.6520	25.01	-3.17	108439.000	3.0	114932.200	4.0
1539.7355	7.00	-2.83	105008.520	2.5	111501.368	1.5
1539.8085	28.01	-1.92	115592.250	1.5	122084.790	1.5
1539.9548	22.00	-2.14	18825.890	1.0	25317.813	1.0
1540.0058	16.00	.35	70163.700	1.0	76655.408	2.0
1540.0196	28.01	-4.50	101246.160	.5	107737.810	1.5
1540.0552	28.01	-2.58	131032.010	2.5	137523.510	3.5
1540.1359	18.00	-.26	113716.610	3.0	120207.770	4.0
1540.1667	17.00	-2.25	94732.300	3.5	101223.330	2.5
1540.1928	26.00	-3.13	54266.760	5.0	60757.680	4.0
1540.2213	25.01	-1.99	108441.400	4.0	114932.200	4.0
1540.3067	28.01	-4.82	101247.370	2.5	107737.810	1.5
1540.3447	18.01	-1.35	194861.270	2.5	201351.550	2.5
1540.3706	16.00	-.38	70165.237	2.0	76655.408	2.0
1540.3772	16.00	.52	70165.237	2.0	76655.380	3.0
1540.4800	28.01	-4.91	96535.870	3.5	103025.580	2.5
1540.4821	26.00	-4.86	51219.059	3.0	57708.760	2.0
1540.4840	17.00	-2.93	95313.749	1.5	101803.442	2.5
1540.5140	7.00	-4.77	104654.000	.5	111143.567	.5
1540.5370	9.00	-3.65	129937.330	1.5	136426.800	1.5
1540.5939	28.01	-2.19	100592.980	3.5	107082.210	2.5
1540.6010	25.01	-1.13	108443.000	5.0	114932.200	4.0
1540.6155	7.00	-2.54	104221.600	1.5	110710.739	2.5
1540.6416	37.00	-1.12	23792.591	0.0	30283.393	0.0
1540.6699	27.00	-4.16	45971.190	3.5	52460.100	2.5
1540.6865	24.00	-2.92	44068.720	3.0	50557.560	4.0
1540.7554	6.00	-1.66	81343.990	2.0	87832.540	2.0
1540.7767	28.01	-1.20	114836.630	3.5	121325.090	2.5
1540.8147	25.01	.33	79569.100	5.0	86057.400	4.0
1540.8406	26.00	-3.47	45551.748	1.0	52039.939	1.0
1540.8979	26.00	-3.41	54266.760	5.0	60754.710	4.0
1540.9192	28.01	-4.43	128912.810	2.5	135400.670	3.5
1540.9995	37.00	-2.08	23792.591	0.0	30281.886	0.0
1541.0641	24.00	-3.95	48331.300	1.0	54818.550	2.0
1541.0713	28.01	-2.52	131032.010	2.5	137519.230	2.5
1541.1007	7.00	-1.62	104716.920	3.5	111204.016	2.5
1541.1494	26.00	-4.26	44511.795	2.0	50998.686	2.0
1541.2255	12.00	-2.04	54248.809	0.0	60735.380	1.0
1541.2328	18.01	-1.31	182951.150	.5	189437.690	.5
1541.3152	20.00	-3.26	42343.587	3.0	48829.780	2.0
1541.3183	6.00	-2.78	81343.990	2.0	87830.170	1.0
1541.3302	28.01	-3.72	114970.190	.5	121456.320	1.5
1541.3374	28.01	-4.29	128958.370	3.5	135444.470	3.5
1541.4895	25.00	-2.92	45060.810	3.5	51546.270	4.5
1541.5156	23.01	-2.72	66303.880	3.0	72789.230	3.0
1541.5289	12.00	-2.17	54250.086	1.0	60735.380	1.0
1541.5289	12.00	-1.86	54250.086	1.0	60735.380	2.0
1541.6131	28.01	.34	122812.970	3.5	129297.910	3.5
1541.6290	17.00	-.92	84688.637	.5	91173.510	1.5
1541.6390	26.00	-4.70	44664.061	2.0	51148.892	2.0
1541.6442	26.00	-4.07	44664.061	2.0	51148.870	3.0
1541.6891	7.01	-1.73	203189.030	1.0	209673.650	2.0
1541.7438	28.01	-4.40	128950.870	3.5	135435.260	4.5
1541.7438	26.00	-4.15	45220.662	3.0	51705.052	2.0
1541.7938	18.01	-2.18	195297.610	1.5	201781.790	2.5
1541.8485	18.01	-2.54	194861.270	2.5	201345.220	1.5
1541.8841	15.00	-3.43	70391.600	2.5	76875.400	1.5
1541.9103	23.00	-4.29	14548.830	2.5	21032.520	3.5
1542.0649	27.00	-3.50	41041.430	3.5	47524.470	4.5
1542.0805	14.00	-1.33	56503.346	2.0	62986.320	2.0
1542.1029	23.02	-4.39	155853.000	2.5	162335.880	3.5
1542.1291	9.00	-1.14	129607.070	.5	136089.840	1.5
1542.1495	7.00	-2.94	107588.469	.5	114071.153	1.5
1542.1567	12.00	-3.34	54252.726	2.0	60735.380	1.0
1542.1567	12.00	-2.34	54252.726	2.0	60735.380	2.0
1542.1567	12.00	-1.42	54252.726	2.0	60735.380	3.0
1542.1662	14.00	-2.66	56503.346	2.0	62985.960	1.0
1542.1672	26.00	-4.15	54066.570	4.0	60549.180	5.0
1542.2176	16.00	-1.92	70173.010	3.0	76655.408	2.0
1542.2243	16.00	-.38	70173.010	3.0	76655.380	3.0
1542.2257	16.00	.68	70173.010	3.0	76655.374	4.0
1542.2340	18.00	-2.09	118870.981	0.0	125353.310	1.0
1542.2819	7.00	-1.85	104683.030	2.5	111165.158	1.5
1542.2980	25.00	-4.37	45156.110	2.5	51638.170	2.5
1542.3766	9.00	-1.92	129484.660	1.5	135966.390	1.5
1542.4218	28.01	-3.19	122812.970	3.5	129294.510	2.5
1542.4646	25.00	-3.77	56189.450	4.5	62670.810	4.5
1542.4765	28.01	-2.63	115565.980	2.5	122047.290	3.5
1542.5560	17.00	-3.20	95706.534	1.5	102187.510	2.5
1542.5764	29.01	.27	138402.200	3.0	144883.090	2.0
1542.5764	28.01	-4.02	107142.210	1.5	113623.100	.5
1542.6122	28.01	-4.69	133528.020	3.5	140008.760	3.5
1542.6574	18.01	-.33	195128.270	4.5	201608.820	3.5
1542.6990	22.00	-2.59	15108.121	3.0	21588.496	4.0
1542.7811	18.01	-.28	200151.640	1.5	206631.670	2.5
1542.8264	28.01	-4.99	128964.630	4.5	135444.470	3.5
1542.9002	29.01	-2.15	116388.000	2.0	122867.530	1.0
1542.9152	7.00	-2.21	104664.100	1.5	111143.567	.5
1542.9526	28.01	-3.74	130480.550	3.5	136959.860	2.5
1543.0288	7.01	-1.35	203258.980	2.0	209737.970	3.0
1543.0431	17.00	-.21	84648.100	2.5	91127.030	2.5
1543.1169	6.00	-3.19	81311.010	0.0	87789.630	1.0
1543.1650	14.00	-3.72	50499.838	2.0	56978.256	1.0
1543.2027	25.00	-.75	50012.530	2.5	56490.790	2.5
1543.2289	28.01	-4.09	133528.020	3.5	140006.170	4.5
1543.2765	28.01	-4.32	128966.520	4.5	135444.470	3.5
1543.3862	7.01	-.88	196711.540	2.0	203189.030	1.0
1543.4665	17.00	-4.84	94468.857	.5	100946.010	.5
1543.5195	17.00	.01	91906.790	2.5	98383.720	3.5
1543.5384	14.00	-2.24	57468.239	2.0	63945.090	3.0
1543.5863	28.01	-4.43	91800.050	4.5	98276.700	4.5
1543.6221	26.00	-4.02	47590.070	4.0	54066.570	4.0
1543.6478	14.00	-3.59	57541.918	1.0	64018.310	1.0
1543.7348	26.00	-2.55	47092.693	3.0	53568.720	2.0
1543.7544	26.00	-4.90	37157.546	2.0	43633.491	2.0
1543.8135	28.00	-4.92	22102.349	4.0	28578.046	3.0
1543.8376	22.00	-5.66	12118.394	4.0	18593.990	3.0
1543.8414	22.00	-3.77	35577.140	2.0	42052.720	3.0
1543.9510	17.00	-1.37	88188.550	1.5	94663.670	1.5
1544.0941	28.01	-4.31	128960.740	5.5	135435.260	4.5
1544.1177	26.00	-.39	47377.909	4.0	53852.330	4.0
1544.1228	8.02	-.61	370900.600	2.0	377375.000	2.0
1544.1230	14.00	-2.03	57295.881	0.0	63770.280	1.0
1544.1466	15.01	-.68	131353.300	2.0	137827.600	1.0
1544.3470	23.00	-4.42	32767.880	1.5	39241.340	2.5
1544.3637	24.00	-4.14	48331.300	1.0	54804.690	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1544.5240	26.00	-3.94	45281.816	2.0	51754.534	1.0
1544.5975	25.01	-4.41	62572.200	2.0	69044.610	2.0
1544.6070	6.00	-3.47	78731.270	1.0	85203.640	2.0
1544.6834	18.00	-1.61	113716.610	3.0	120188.660	2.0
1544.7574	24.00	-2.24	48515.080	3.0	54986.820	3.0
1544.8075	28.01	.45	122812.970	3.5	129284.500	2.5
1544.8352	28.00	-2.61	44206.185	3.0	50677.599	3.0
1544.8601	18.01	-2.33	202544.320	2.5	209015.630	3.5
1544.9119	18.00	-3.49	118651.447	1.0	125122.540	0.0
1544.9126	24.00	-3.57	50890.150	2.0	57361.240	3.0
1544.9293	25.00	-4.62	51014.950	3.5	57485.970	2.5
1545.0224	28.01	-3.85	128964.630	4.5	135435.260	4.5
1545.0869	28.00	-3.17	49403.420	1.0	55873.780	2.0
1545.1585	10.01	-1.61	322348.010	3.5	328818.070	3.5
1545.1585	10.01	-1.05	322348.010	4.5	328818.070	3.5
1545.1633	10.01	-3.73	322348.010	3.5	328818.050	2.5
1545.2087	8.01	-2.32	248425.350	.5	254895.200	1.5
1545.2206	25.00	-3.87	45060.810	3.5	51530.610	3.5
1545.3018	27.00	-4.32	47225.110	3.5	53694.570	3.5
1545.3081	14.00	-3.12	57017.496	2.0	63486.930	1.0
1545.3410	22.00	-4.94	31190.631	2.0	37659.927	3.0
1545.3687	18.01	-2.68	199679.760	2.5	206148.940	3.5
1545.4045	27.00	-4.52	40621.620	1.5	47090.650	2.5
1545.4081	26.00	-3.92	44411.137	1.0	50880.152	1.0
1545.4667	25.00	-.84	50099.160	1.5	56567.930	1.5
1545.4738	28.01	-4.05	128966.520	5.5	135435.260	4.5
1545.4965	18.00	-3.09	116999.389	2.0	123468.034	1.0
1545.5192	18.01	-1.94	194883.000	3.5	201351.550	2.5
1545.6196	25.00	-.88	49888.080	3.5	56356.210	3.5
1545.6607	26.00	-4.37	45551.748	1.0	52019.706	1.0
1545.6762	26.00	-3.78	47693.289	3.0	54161.182	3.0
1545.8662	7.00	-2.59	104859.700	1.5	111326.798	2.5
1545.8968	23.00	-4.07	32660.260	2.5	39127.230	1.5
1545.9757	17.00	-2.45	91906.790	2.5	98373.430	2.5
1546.0856	17.00	-3.75	91906.790	2.5	98372.970	1.5
1546.1237	26.00	-4.36	33765.291	2.0	40231.312	2.0
1546.2268	27.00	-4.77	48217.320	3.5	54682.910	4.5
1546.2478	18.00	-2.39	114805.180	2.0	121270.682	2.0
1546.2634	17.00	-4.15	95534.923	.5	102000.360	1.5
1546.2913	23.01	-4.58	44657.990	2.0	51123.310	2.0
1546.3722	28.00	-2.72	42621.048	3.0	49086.030	4.0
1546.5209	17.00	-2.52	85442.430	1.5	91906.790	2.5
1546.6382	6.00	-3.21	81325.760	1.0	87789.630	1.0
1546.6645	25.01	-2.27	72648.800	4.0	79112.560	5.0
1546.7925	10.00	-3.31	165828.175	2.0	172291.400	1.0
1546.7925	10.00	-2.45	165828.175	2.0	172291.400	2.0
1546.7935	17.00	-.33	84485.309	1.5	90948.530	1.5
1546.8466	22.00	-3.91	35454.051	4.0	41917.050	4.0
1546.8607	6.00	-2.78	81343.990	2.0	87806.930	3.0
1546.9816	16.00	-.22	64888.014	1.0	71350.449	1.0
1547.0379	26.01	-4.83	54870.620	2.5	61332.820	1.5
1547.1097	28.00	-4.03	51124.800	3.0	57586.700	2.0
1547.1193	24.00	-2.81	48210.040	1.0	54671.900	1.0
1547.1964	14.00	-1.86	54245.020	0.0	60706.558	1.0
1547.2318	23.01	-3.45	44200.970	1.0	50662.360	0.0
1547.2702	27.00	-2.75	48443.760	2.5	54904.990	2.5
1547.3061	23.00	-3.64	37457.500	1.5	43918.580	2.5
1547.3324	27.00	-2.44	46454.950	1.5	52915.920	.5
1547.3992	26.00	-.22	47377.909	4.0	53838.600	3.0
1547.4297	7.00	-2.21	104825.080	2.5	111285.644	1.5
1547.5063	26.00	-3.14	44243.668	5.0	50703.912	5.0
1547.5616	16.00	-.70	64890.436	0.0	71350.449	1.0
1547.6366	13.01	-1.05	142362.800	2.0	148822.500	2.0
1547.6366	13.01	-.31	142362.800	1.0	148822.500	2.0
1547.6366	13.01	-.51	142362.800	2.0	148822.500	3.0
1547.6366	13.01	-2.59	142362.800	3.0	148822.500	2.0
1547.6366	13.01	-1.41	142362.800	3.0	148822.500	3.0
1547.6366	13.01	.02	142362.800	3.0	148822.500	4.0
1547.6702	24.00	-4.14	48515.080	3.0	54974.640	2.0
1547.7373	25.00	-2.88	57305.620	3.5	63764.900	2.5
1547.7806	17.00	-1.82	85735.091	1.5	92194.190	1.5
1547.7924	25.00	-4.58	45259.170	1.5	51718.220	1.5
1547.8482	16.00	0.00	64891.632	2.0	71350.449	1.0
1547.8643	28.01	-2.26	122812.970	3.5	129271.720	3.5
1547.8943	10.00	-3.31	165828.175	2.0	172286.800	2.0
1547.9522	22.00	-3.86	35559.627	5.0	42018.010	5.0
1547.9891	17.00	-2.27	95400.731	2.5	101858.960	2.5
1548.0086	26.00	-3.28	45281.816	2.0	51739.964	2.0
1548.1207	6.00	-3.31	78731.270	1.0	85188.950	1.0
1548.2190	27.00	-4.74	46002.830	2.5	52460.100	2.5
1548.2574	25.01	-3.57	62587.500	3.0	69044.610	2.0
1548.4588	28.01	-4.84	130480.550	3.5	136936.820	3.5
1548.4972	28.01	-2.11	99132.780	5.5	105588.890	4.5
1548.6795	6.00	-2.63	78529.620	3.0	84984.970	3.0
1548.8460	26.00	-4.59	47812.104	4.0	54266.760	5.0
1548.8813	14.00	-1.00	57295.881	0.0	63750.390	1.0
1548.9771	22.00	-3.16	35652.950	3.0	42107.060	4.0
1548.9795	30.02	-3.56	258178.300	4.0	264632.400	3.0
1548.9831	26.00	-4.65	47420.215	5.0	53874.300	5.0
1548.9867	24.00	-2.35	48217.830	2.0	54671.900	1.0
1548.9867	28.01	-3.59	93390.060	2.5	99844.130	3.5
1548.9975	10.00	-2.28	165828.175	2.0	172282.200	3.0
1549.0015	14.00	-3.77	57798.072	2.0	64252.080	2.0
1549.0227	22.01	-3.71	63168.230	2.5	69622.150	2.5
1549.1981	26.00	-3.03	47092.693	3.0	53545.882	3.0
1549.2891	27.00	-4.01	48443.760	2.5	54896.570	3.5
1549.3612	26.00	-3.02	51361.460	3.0	57813.970	3.0
1549.4692	26.00	-4.56	48231.330	5.0	54683.390	4.0
1549.4723	18.00	-3.58	114805.180	2.0	121257.227	1.0
1549.5667	14.00	-3.11	56503.346	2.0	62955.000	2.0
1549.6157	7.00	-.87	97770.150	.5	104221.600	1.5
1549.6965	14.00	-.52	56503.346	2.0	62954.460	3.0
1549.7001	14.00	-3.40	50566.397	1.0	57017.496	2.0
1549.7070	9.01	-2.42	280250.210	2.0	286701.280	2.0
1549.7365	22.00	-3.84	31373.801	3.0	37824.748	4.0
1549.8336	7.00	-4.63	104810.330	2.5	111260.873	3.5
1549.9136	28.01	-.98	114874.880	2.5	121325.090	2.5
1549.9689	27.00	-3.57	46746.000	2.5	53195.980	2.5
1550.0121	28.01	-4.12	128950.870	3.5	135400.670	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1550.0410	18.01	-3.44	189414.960	3.5	195864.640	2.5
1550.0889	10.00	-1.90	162517.872	1.0	168967.353	1.0
1550.1431	7.00	-1.36	106477.800	.5	112927.055	1.5
1550.2429	27.00	-4.60	27497.060	2.5	33945.900	2.5
1550.2640	14.00	-1.63	57541.918	1.0	63990.670	2.0
1550.2765	27.00	-3.55	47977.940	.5	54426.640	1.5
1550.2785	18.00	-2.34	114821.990	3.0	121270.682	2.0
1550.3246	24.00	-4.73	27223.050	2.0	33671.550	3.0
1550.4016	28.01	-1.80	121437.680	5.5	127885.860	4.5
1550.5145	18.01	-1.91	205221.470	1.5	211669.180	2.5
1550.6060	6.00	-1.98	81325.760	1.0	87773.090	2.0
1550.6979	14.00	-1.38	54257.582	3.0	60704.530	3.0
1550.7351	26.00	-4.79	44415.057	4.0	50861.850	3.0
1550.7383	15.00	-.46	66360.120	1.5	72806.900	2.5
1550.7917	17.00	-1.31	95786.752	2.5	102233.310	2.5
1550.8441	9.00	-2.26	130141.650	1.5	136587.990	1.5
1550.9259	13.01	-.16	138518.700	2.0	144964.700	3.0
1551.0125	6.00	-3.48	81343.990	2.0	87789.630	1.0
1551.0366	24.00	-3.73	48226.360	0.0	54671.900	1.0
1551.0515	7.00	-2.56	104881.320	3.5	111326.798	2.5
1551.0546	7.00	-2.50	104615.440	1.5	111060.905	.5
1551.0924	14.00	-2.85	57798.072	2.0	64243.380	2.0
1551.1425	15.00	-3.10	69980.100	3.5	76425.200	2.5
1551.1514	26.00	-4.83	44166.240	3.0	50611.303	3.0
1551.1885	17.00	-2.43	95400.731	2.5	101845.640	1.5
1551.3037	22.00	-4.62	36414.470	3.0	42858.900	3.0
1551.4692	14.00	-2.27	57198.027	3.0	63641.770	3.0
1551.5276	23.00	-3.43	37475.080	3.5	43918.580	2.5
1551.5565	28.01	-1.61	114942.420	1.5	121385.800	1.5
1551.6793	7.00	-2.25	107628.283	1.5	114071.153	1.5
1551.6962	9.00	-1.29	130141.650	1.5	136584.450	2.5
1551.7107	27.00	-4.39	46260.020	1.5	52702.760	1.5
1551.7926	13.01	-3.58	138496.700	1.0	144939.100	1.0
1551.8166	28.01	-4.75	128958.370	3.5	135400.670	3.5
1551.8528	9.00	-1.63	129659.500	3.5	136101.650	3.5
1551.9588	23.00	-1.93	33155.300	4.5	39597.010	4.5
1551.9756	21.00	-.94	30706.610	1.5	37148.250	1.5
1551.9949	9.00	-.10	129659.500	3.5	136101.060	4.5
1552.0070	25.00	-4.30	51718.220	1.5	58159.730	2.5
1552.0115	14.00	-.65	57328.789	1.0	63770.280	1.0
1552.0142	18.01	.13	202253.590	1.5	208695.070	1.5
1552.0455	17.00	.54	84648.100	2.5	91089.450	3.5
1552.1800	10.00	-2.99	166656.508	1.0	173097.300	0.0
1552.2600	27.00	-1.97	50105.050	1.5	56545.510	2.5
1552.3166	10.00	-2.69	165828.175	2.0	172268.400	1.0
1552.4417	26.00	-2.60	46720.824	4.0	53160.530	3.0
1552.5109	26.00	-4.05	47106.463	4.0	53545.882	3.0
1552.5420	18.01	-3.28	195281.380	.5	201720.670	1.5
1552.6168	9.00	-4.21	130016.100	2.5	136455.080	1.5
1552.6313	9.00	-1.47	130149.070	.5	136587.990	1.5
1552.7060	22.00	-3.68	35685.160	6.0	42123.770	6.0
1552.7535	14.00	-3.22	57583.657	4.0	64022.070	3.0
1552.7711	6.00	-2.34	78731.270	1.0	85169.610	0.0
1552.8085	7.00	-2.39	107588.469	.5	114026.654	.5
1553.1170	22.00	.02	37538.804	2.0	43975.710	1.0
1553.1281	15.00	-.91	66813.040	1.5	73249.900	1.5
1553.1552	26.00	-.42	45509.112	1.0	51945.860	1.0
1553.1764	17.00	-.84	85244.330	.5	91680.990	1.5
1553.2263	14.00	-2.45	57583.657	4.0	64020.110	4.0
1553.2449	14.00	-1.68	54185.264	1.0	60621.640	0.0
1553.2879	26.00	-.04	45509.112	1.0	51945.310	2.0
1553.2971	24.00	-2.69	48210.040	1.0	54646.200	0.0
1553.3260	28.01	-4.46	128964.630	4.5	135400.670	3.5
1553.3550	18.01	-4.83	202155.860	2.5	208591.780	1.5
1553.3857	7.00	-3.75	104825.080	2.5	111260.873	3.5
1553.3977	14.00	-3.66	57583.657	4.0	64019.400	3.0
1553.4254	17.00	-.83	95786.752	2.5	102222.380	3.5
1553.4829	9.00	-4.42	130016.100	2.5	136451.490	2.5
1553.6471	28.01	-2.61	130331.780	1.5	136766.490	2.5
1553.7446	26.00	-2.69	46720.824	4.0	53155.130	4.0
1553.7823	28.01	-4.64	128966.520	4.5	135400.670	3.5
1553.7992	28.01	-2.20	99154.810	4.5	105588.890	4.5
1553.8064	27.00	-2.31	46329.630	2.5	52763.680	3.5
1553.8463	14.00	-1.81	54528.220	2.0	60962.105	2.0
1554.0166	6.00	-1.63	81343.990	2.0	87777.170	3.0
1554.1229	9.00	-2.13	129659.500	3.5	136092.240	2.5
1554.1417	26.00	-3.61	47136.058	2.0	53568.720	2.0
1554.1451	26.00	-.25	45509.112	1.0	51941.760	0.0
1554.1635	26.00	-3.39	53739.488	5.0	60172.060	4.0
1554.1719	26.00	-4.17	48122.913	3.0	54555.450	4.0
1554.1833	26.00	-4.23	51381.480	4.0	57813.970	3.0
1554.2016	14.00	-1.38	56503.346	2.0	62935.760	3.0
1554.2775	25.00	-4.67	45013.550	2.5	51445.650	1.5
1554.3191	17.00	-2.03	95786.752	2.5	102218.680	2.5
1554.3720	22.00	-1.34	15156.787	4.0	21588.496	4.0
1554.3916	17.00	-2.71	95786.752	2.5	102218.380	1.5
1554.4767	7.00	-1.17	106477.800	.5	112909.076	1.5
1554.5990	25.00	-2.80	45130.160	4.5	51560.930	5.5
1554.6038	22.00	-4.17	35527.760	1.0	41958.510	2.0
1554.7174	10.01	.08	302307.750	2.5	308738.030	1.5
1555.0028	6.00	-3.31	81343.990	2.0	87773.090	2.0
1555.0560	26.00	-4.08	49297.660	1.0	55726.540	0.0
1555.1624	26.01	-4.46	93395.600	2.5	99824.040	2.5
1555.1958	26.00	-2.48	44551.325	3.0	50979.627	4.0
1555.1963	13.01	-1.22	138536.400	3.0	144964.700	3.0
1555.1963	13.01	-.25	138536.400	3.0	144964.700	4.0
1555.1963	13.01	-.46	138536.400	3.0	144964.700	4.0
1555.2761	6.00	-1.77	81325.760	1.0	87753.730	2.0
1555.3221	23.01	-4.73	44657.990	2.0	51085.770	3.0
1555.3424	26.00	-4.84	44183.607	2.0	50611.303	3.0
1555.4746	22.00	-3.12	35757.510	4.0	42184.660	4.0
1555.5421	28.00	-1.09	44262.619	2.0	50689.490	2.0
1555.5441	18.00	-.91	107289.747	2.0	113716.610	3.0
1555.6016	28.00	-1.11	42605.964	3.0	49032.589	2.0
1555.6367	23.02	-3.80	155496.800	1.5	161923.280	2.5
1555.6590	26.00	-4.59	47831.132	2.0	54257.520	2.0
1555.7045	7.00	-1.84	106477.800	.5	112904.000	.5
1555.7665	7.00	-4.13	104859.700	1.5	111285.644	1.5
1555.7779	14.00	-.75	48102.323	2.0	54528.220	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1555.8304	22.00	-4.97	36298.430	1.0	42724.110	2.0
1555.9500	28.00	-2.44	47328.850	2.0	53754.036	2.0
1556.0774	24.00	-1.69	48562.160	4.0	54986.820	3.0
1556.1251	14.00	-1.37	56780.427	1.0	63204.890	2.0
1556.1670	6.00	-2.26	81311.010	0.0	87735.300	1.0
1556.3051	28.00	-3.10	51343.800	2.0	57767.520	1.0
1556.3124	18.01	-4.76	199679.760	2.5	206103.450	1.5
1556.3698	18.00	-2.95	118651.447	1.0	125074.900	2.0
1556.3720	17.00	-4.86	94314.206	1.5	100737.650	.5
1556.4224	26.00	-3.09	45281.816	2.0	51705.052	2.0
1556.4311	13.01	-3.30	132819.700	3.0	139242.900	3.0
1556.4650	18.01	-1.91	195297.610	1.5	201720.670	1.5
1556.4796	13.01	-2.40	132819.900	2.0	139242.900	3.0
1556.5717	24.00	-1.50	48786.390	5.0	55209.010	4.0
1556.6347	24.00	-3.80	50950.420	3.0	57372.780	4.0
1556.7189	14.00	-3.83	57372.297	2.0	63794.310	2.0
1556.8187	14.00	-4.27	57328.789	1.0	63750.390	1.0
1556.8194	26.00	-3.42	47452.702	4.0	53874.300	5.0
1556.8553	22.00	-1.72	38159.710	3.0	44581.160	2.0
1556.9103	14.00	-3.47	57372.297	2.0	63793.520	1.0
1556.9178	26.00	-3.31	44458.960	0.0	50880.152	1.0
1556.9273	18.00	-3.50	118651.447	1.0	125072.600	1.0
1556.9741	27.00	-3.24	46375.170	1.5	52796.130	2.5
1557.0052	12.00	-2.06	54676.438	3.0	61097.270	2.0
1557.0052	12.00	-3.20	54676.438	3.0	61097.270	3.0
1557.0202	28.01	-2.84	67880.160	2.5	74300.930	1.5
1557.0711	12.00	-3.14	54676.710	2.0	61097.270	2.0
1557.0711	12.00	-2.23	54676.710	2.0	61097.270	1.0
1557.0711	12.00	-4.17	54676.710	3.0	61097.270	2.0
1557.0711	12.00	-4.51	54676.710	2.0	61097.270	3.0
1557.0711	12.00	-3.34	54676.710	3.0	61097.270	3.0
1557.0711	12.00	-1.90	54676.710	4.0	61097.270	3.0
1557.0941	26.00	-2.97	47420.215	5.0	53840.680	6.0
1557.1099	28.01	-3.55	130184.390	2.5	136604.790	3.5
1557.1341	13.01	-1.67	142849.200	3.0	149269.500	2.0
1557.1341	13.01	-3.10	142849.200	3.0	149269.500	3.0
1557.1341	13.01	-4.53	142849.200	3.0	149269.500	4.0
1557.1341	13.01	-2.09	142849.200	4.0	149269.500	3.0
1557.1341	13.01	-1.12	142849.200	4.0	149269.500	3.0
1557.1341	13.01	-2.97	142849.200	4.0	149269.500	4.0
1557.1341	13.01	-3.11	142849.200	4.0	149269.500	4.0
1557.1341	13.01	-1.44	142849.200	5.0	149269.500	4.0
1557.1826	15.01	-2.76	132133.200	3.0	138553.300	2.0
1557.2280	22.00	.22	37659.927	3.0	44079.840	2.0
1557.2724	18.01	-1.64	202253.590	1.5	208673.320	2.5
1557.3015	29.01	-2.95	116326.160	3.0	122745.770	2.0
1557.3549	28.01	-2.91	129782.070	3.5	136201.460	3.5
1557.4221	20.00	-3.10	42343.587	3.0	48762.700	2.0
1557.5005	28.01	-4.42	130480.550	3.5	136899.340	2.5
1557.5101	9.00	-2.94	130016.100	2.5	136434.850	2.5
1557.5126	9.00	-1.53	129659.500	3.5	136078.240	2.5
1557.5883	26.00	-4.54	44415.057	4.0	50833.485	5.0
1558.0877	14.00	-2.91	57468.239	2.0	63884.610	1.0
1558.1076	17.00	-1.43	85735.091	1.5	92151.380	.5
1558.1510	25.00	-3.98	45130.160	4.5	51546.270	4.5
1558.2020	25.01	-.49	79544.510	2.0	85960.410	3.0
1558.2287	7.00	-.17	97805.810	1.5	104221.600	1.5
1558.2725	28.01	-1.68	114970.190	.5	121385.800	1.5
1558.2858	26.00	-4.71	46744.975	3.0	53160.530	3.0
1558.3480	18.00	-3.68	118870.981	0.0	125286.280	1.0
1558.5008	7.01	-2.91	203258.980	2.0	209673.650	2.0
1558.5378	10.00	-3.04	165912.782	1.0	172327.300	0.0
1558.5528	28.00	-3.46	50689.490	2.0	57103.946	3.0
1558.5907	18.01	-4.77	184093.060	.5	190507.360	1.5
1558.7195	27.00	-3.42	46502.150	.5	52915.920	.5
1558.8508	26.00	-3.61	44285.436	2.0	50698.666	2.0
1558.8947	28.00	-3.47	43933.428	2.0	50346.477	2.0
1558.8994	22.00	-4.50	42311.310	3.0	48724.340	2.0
1558.8994	9.00	-3.63	130016.100	2.5	136429.130	3.5
1558.9723	29.01	-.44	138402.200	3.0	144814.930	3.0
1559.0336	22.00	-4.02	33114.412	2.0	39526.890	2.0
1559.0503	26.00	-1.96	43633.491	2.0	50045.900	2.0
1559.1717	27.00	-4.64	48753.720	1.5	55165.630	2.5
1559.1751	7.00	-2.35	104859.700	1.5	111271.596	.5
1559.1841	14.00	-3.64	50566.397	1.0	56978.256	1.0
1559.2420	17.00	-1.29	95313.749	1.5	101725.370	1.5
1559.2884	28.01	-4.58	130184.610	5.5	136596.040	6.5
1559.3005	9.00	-.70	129659.500	3.5	136070.880	3.5
1559.3322	22.00	-3.07	35577.140	2.0	41988.390	3.0
1559.3686	15.00	-1.90	75353.400	1.5	81764.500	1.5
1559.3828	26.00	-2.36	40594.413	4.0	47005.455	5.0
1559.4027	26.00	-4.79	47420.000	2.0	53830.960	3.0
1559.5689	17.00	-3.40	95534.923	.5	101945.200	.5
1559.5689	17.00	-4.92	95534.923	.5	101945.200	1.5
1559.6046	25.01	-.08	79550.280	3.0	85960.410	3.0
1559.6363	23.00	-2.11	32988.820	3.5	39398.820	3.5
1559.6995	6.00	-1.41	81343.990	2.0	87753.730	2.0
1559.7190	28.01	-4.99	130470.900	4.5	136880.560	4.5
1559.7326	12.00	-2.18	54250.086	1.0	60659.690	2.0
1559.7482	6.00	-3.55	81325.760	1.0	87735.300	1.0
1559.8005	17.00	-2.97	94732.300	3.5	101141.625	4.5
1559.9035	22.00	.37	37824.748	4.0	44233.650	3.0
1559.9059	10.00	-2.32	166656.508	1.0	173065.400	2.0
1559.9064	17.00	-4.37	94732.300	3.5	101141.190	3.5
1560.0371	18.00	-3.72	118651.447	1.0	125059.800	2.0
1560.1303	29.01	-1.01	114511.440	1.0	120919.410	1.0
1560.1839	27.00	-3.26	46562.870	1.5	52970.620	2.5
1560.1863	28.01	-3.53	95332.530	2.5	101740.270	3.5
1560.2326	6.00	-2.07	81311.010	0.0	87718.560	1.0
1560.2850	22.00	-1.56	18287.560	4.0	24694.895	4.0
1560.3754	12.00	-2.66	54252.726	2.0	60659.690	2.0
1560.3882	28.00	-1.26	42767.900	3.0	49174.811	4.0
1560.3897	7.00	-2.71	104654.000	.5	111060.905	.5
1560.4031	27.00	-4.30	45688.150	2.5	52095.000	3.5
1560.4203	10.00	-1.22	162517.872	1.0	168924.651	2.0
1560.5093	22.00	-3.63	18911.399	2.0	25317.813	1.0
1560.5979	23.01	-4.32	30267.460	2.0	36673.510	2.0
1560.6613	18.01	-4.38	203007.690	1.5	209413.480	1.5
1560.6832	15.01	-1.37	124947.600	2.0	131353.300	2.0
1560.6832	15.00	-2.77	75484.400	2.5	81890.100	2.5
1560.7320	13.01	-3.00	138559.200	4.0	144964.700	3.0
1560.7320	13.01	-1.44	138559.200	4.0	144964.700	4.0
1560.7320	13.01	-1.58	138559.200	4.0	144964.700	4.0
1560.7320	13.01	.09	138559.200	4.0	144964.700	5.0
1560.7801	20.00	-4.75	39333.382	0.0	45738.684	1.0
1560.8148	22.00	-3.43	41780.950	4.0	48186.110	4.0
1560.8245	25.00	-4.18	56356.210	3.5	62761.330	2.5
1560.8450	17.00	-.59	85735.091	1.5	92140.127	1.5
1560.8635	28.01	-4.66	130184.390	2.5	136589.350	3.5
1561.1170	26.00	-4.26	27543.000	1.0	33946.920	2.0
1561.1219	27.00	-5.00	48546.070	1.5	54949.970	1.5
1561.1462	10.01	-4.41	276276.850	1.5	282680.650	.5
1561.1562	17.00	-.41	94827.150	2.5	101230.909	3.5
1561.1804	28.01	-4.78	127331.600	2.5	133735.260	2.5
1561.1926	23.02	-4.66	155981.500	3.5	162385.110	3.5
1561.2530	20.00	-4.27	39335.322	1.0	45738.684	1.0
1561.2755	25.00	-4.78	38120.180	4.5	44523.450	3.5
1561.3072	28.01	-4.99	106283.160	2.5	112686.300	2.5
1561.3316	26.00	-3.06	53769.020	4.0	60172.060	4.0
1561.3557	7.00	-3.78	104810.330	2.5	111213.271	1.5
1561.3559	26.00	-3.65	47834.260	3.0	54237.200	4.0
1561.3608	23.00	-3.72	17116.920	3.5	23519.840	4.5
1561.3982	17.00	-.73	95597.593	.5	102000.360	1.5
1561.4118	17.00	-1.10	95400.731	2.5	101803.442	2.5
1561.4950	23.00	-4.75	32724.860	.5	39127.230	1.5
1561.5378	17.00	-1.05	88080.042	2.5	94482.236	2.5
1561.5779	25.01	.03	79558.380	4.0	85960.410	3.0
1561.7601	14.00	-2.41	57372.297	2.0	63773.580	2.0
1561.8309	14.00	-2.63	57372.297	2.0	63773.290	3.0
1561.8316	10.01	-3.09	246397.490	1.5	252798.480	.5
1561.8389	28.01	-3.72	130331.780	1.5	136732.740	1.5
1561.8706	27.00	-4.74	48546.070	1.5	54946.900	2.5
1561.9104	26.00	-2.08	44022.518	4.0	50423.185	4.0
1561.9106	20.00	-3.71	42170.214	2.0	48570.880	2.0
1561.9106	20.00	-2.81	42170.214	2.0	48570.880	1.0
1561.9946	20.00	-2.81	42170.558	3.0	48570.880	2.0
1561.9946	20.00	-3.54	42170.558	3.0	48570.880	3.0
1562.0000	27.00	-3.50	48026.340	.5	54426.640	1.5
1562.0610	27.00	-4.10	40345.950	2.5	46746.000	2.5
1562.0708	28.01	-4.19	130480.550	3.5	136880.560	4.5
1562.1088	20.00	-2.48	42171.026	4.0	48570.880	3.0
1562.1230	28.00	-4.27	51343.800	2.0	57743.596	3.0
1562.1245	6.00	-4.00	68856.330	1.0	75256.120	0.0
1562.1293	22.00	-3.29	35652.950	3.0	42052.720	3.0
1562.1423	26.00	.70	44676.963	4.0	51076.680	4.0
1562.1772	7.00	-2.67	104886.070	.5	111285.644	1.5
1562.2001	23.02	-3.69	154480.500	4.5	160879.980	4.5
1562.2197	23.01	-3.08	30641.710	3.0	37041.110	2.0
1562.2929	28.01	-2.50	99040.750	1.5	105439.850	1.5
1562.3319	6.00	-3.16	68856.330	1.0	75255.270	2.0
1562.4140	20.00	-4.04	39340.080	2.0	45738.684	1.0
1562.4169	17.00	-.31	94732.300	3.5	101130.892	4.5
1562.4709	7.00	-2.70	107628.283	1.5	114026.654	.5
1562.4956	15.00	-3.39	66343.330	.5	72741.600	1.5
1562.5517	26.00	-4.63	53966.720	2.0	60364.760	3.0
1562.5713	22.00	-3.34	35503.400	0.0	41901.360	1.0
1562.5884	28.01	-4.34	130206.900	4.5	136604.790	3.5
1562.6494	6.00	-2.97	68856.330	1.0	75253.970	1.0
1562.8180	23.00	-3.49	15724.220	3.5	22121.170	4.5
1562.8534	7.00	-2.99	104664.100	1.5	111060.905	.5
1562.9690	26.00	-4.03	36766.950	3.0	43163.282	4.0
1563.0061	17.00	-1.02	94827.150	2.5	101223.330	2.5
1563.1268	26.00	-3.86	29371.860	3.0	35767.546	4.0
1563.1584	18.00	-4.72	114861.670	0.0	121257.227	1.0
1563.1623	14.00	-2.14	57468.239	2.0	63863.780	2.0
1563.1992	27.00	-4.30	45766.630	3.5	52162.020	3.5
1563.2412	26.00	.25	43163.282	4.0	49558.500	4.0
1563.2456	28.01	-1.58	99442.860	4.5	105838.060	3.5
1563.2654	28.00	-2.50	42790.027	2.0	49185.146	2.0
1563.3215	6.00	-4.24	82251.710	0.0	88646.600	1.0
1563.3337	18.01	.09	203730.860	1.5	210125.700	2.5
1563.3923	23.00	-2.28	32846.740	2.5	39241.340	2.5
1563.6158	7.00	-3.92	104810.330	2.5	111204.016	2.5
1563.7567	28.01	-4.04	130205.620	5.5	136598.730	5.5
1563.7983	26.00	-4.49	51304.650	4.0	57697.590	4.0
1563.8325	30.02	-2.92	258239.600	4.0	264632.400	3.0
1563.8325	6.00	-2.36	81325.760	1.0	87718.560	1.0
1563.8469	14.00	-1.10	57328.789	1.0	63721.530	2.0
1563.8472	14.00	-2.95	54313.818	1.0	60706.558	1.0
1563.8792	26.00	-3.67	46889.126	4.0	53281.735	5.0
1563.9132	7.00	-3.34	106477.800	.5	112870.270	.5
1564.0698	28.01	-3.97	130206.900	4.5	136598.730	5.5
1564.0872	28.00	-3.34	49185.146	2.0	55576.905	3.0
1564.1188	25.00	-.99	50099.160	1.5	56490.790	2.5
1564.1922	28.00	-3.72	44314.980	4.0	50706.310	4.0
1564.1971	6.00	-3.77	81343.990	2.0	87735.300	1.0
1564.2338	28.00	-3.14	42767.900	3.0	49159.060	2.0
1564.2852	17.00	-2.03	88272.720	.5	94663.670	1.5
1564.3381	12.00	-2.35	54706.536	1.0	61097.270	2.0
1564.4149	28.01	-4.06	130205.620	5.5	136596.040	5.5
1564.4149	28.01	-2.20	130205.620	5.5	136596.040	6.5
1564.4296	28.01	-3.53	115785.060	1.5	122175.420	2.5
1564.5118	17.00	-4.68	94314.206	1.5	100704.230	1.5
1564.5415	14.00	-1.63	57372.297	2.0	63762.200	3.0
1564.5594	27.00	-4.22	45766.630	3.5	52156.460	4.5
1564.5843	14.00	-4.45	57798.072	2.0	64187.800	3.0
1564.5986	28.01	-3.67	113407.310	2.5	119796.980	2.5
1564.7210	17.00	-4.35	94663.670	1.5	101052.840	2.5
1564.7283	28.01	-2.31	130206.900	4.5	136596.040	5.5
1564.7406	23.00	-2.39	32738.140	1.5	39127.230	1.5
1564.7627	15.01	-2.35	132164.300	2.0	138553.300	2.0
1564.7774	18.01	-3.70	200234.860	2.5	206623.800	3.5
1564.9414	28.01	-3.00	113408.710	1.5	119796.980	2.5
1564.9586	9.00	-2.24	129607.070	.5	135995.270	.5
1564.9608	7.00	-4.25	104825.080	2.5	111213.271	1.5
1564.9701	18.00	-2.39	118651.447	1.0	125039.600	1.0
1564.9831	7.01	-3.26	203537.660	1.0	209925.760	2.0
1565.0069	17.00	-3.54	95612.357	1.5	102000.360	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1565.2355	27.00	-3.92	46329.630	2.5	52716.700	3.5
1565.3016	29.01	-3.77	130386.400	2.0	136773.200	1.0
1565.3163	18.00	-3.67	114805.180	2.0	121191.920	2.0
1565.5712	13.01	-2.02	138799.300	0.0	145185.000	1.0
1565.5931	14.00	-1.33	57328.789	1.0	63714.400	2.0
1565.5933	6.00	-2.19	81325.760	1.0	87711.370	0.0
1565.6139	7.00	-2.92	104886.070	.5	111271.596	.5
1565.6519	26.00	-4.38	47377.909	4.0	53763.280	3.0
1565.6537	26.00	-4.37	47008.351	5.0	53393.715	4.0
1565.7135	22.00	-1.73	34170.950	0.0	40556.070	1.0
1565.9465	24.00	-3.20	35398.020	4.0	41782.190	4.0
1565.9999	12.00	-4.05	54676.438	3.0	61060.390	2.0
1566.0667	12.00	-2.06	54676.710	3.0	61060.390	2.0
1566.0667	12.00	-3.45	54676.710	2.0	61060.390	2.0
1566.1148	26.00	-3.31	45220.662	3.0	51604.146	3.0
1566.1668	26.00	-4.42	38678.015	2.0	45061.287	3.0
1566.1771	28.01	-3.29	130215.500	4.5	136598.730	5.5
1566.3145	28.01	-1.45	114942.420	1.5	121325.090	2.5
1566.3684	6.00	-2.21	81325.760	1.0	87708.210	2.0
1566.3685	28.01	-4.84	130206.900	4.5	136589.350	3.5
1566.5487	17.00	-1.81	94663.670	1.5	101045.386	1.5
1566.5973	7.00	-4.76	105119.850	1.5	111501.368	1.5
1566.6066	15.00	-4.08	66360.120	1.5	72741.600	1.5
1566.6336	22.00	-4.00	35577.140	2.0	41958.510	2.0
1566.6950	26.00	-4.59	44826.920	0.0	51208.040	1.0
1566.7318	8.01	-2.33	248514.230	1.5	254895.200	1.5
1566.7318	8.01	-2.42	248514.230	1.5	254895.200	2.5
1566.8374	28.01	-3.29	130215.500	4.5	136596.040	5.5
1566.8570	28.01	-4.00	130208.890	3.5	136589.350	3.5
1566.8759	17.00	-1.89	84688.637	.5	91069.020	.5
1567.0797	7.00	-2.85	104881.320	3.5	111260.873	3.5
1567.1333	26.00	-.21	47755.485	3.0	54134.820	2.0
1567.1886	21.00	-1.63	30706.610	1.5	37085.720	.5
1567.2314	7.00	-3.10	104825.080	2.5	111204.016	2.5
1567.2353	28.01	-3.66	130225.870	3.5	136604.790	3.5
1567.3095	10.00	-2.65	165912.782	1.0	172291.400	1.0
1567.3095	10.00	-3.56	165912.782	1.0	172291.400	2.0
1567.3385	25.00	.26	41403.930	2.5	47782.430	1.5
1567.3979	26.00	-4.32	47452.702	4.0	53830.960	3.0
1567.4024	26.00	-4.36	54379.440	3.0	60757.680	4.0
1567.4171	23.01	-2.86	66303.880	3.0	72682.060	2.0
1567.4653	14.00	-1.44	56978.256	1.0	63356.240	2.0
1567.6408	28.01	-4.11	130227.520	2.5	136604.790	3.5
1567.8190	26.00	-3.25	47017.170	3.0	53393.715	4.0
1567.9481	24.00	.44	37883.340	2.0	44259.360	3.0
1567.9752	18.01	-1.95	199879.320	3.5	206255.230	2.5
1567.9983	14.00	-3.16	50602.440	0.0	56978.256	1.0
1568.0064	17.00	-2.30	95612.357	1.5	101988.140	2.5
1568.1310	18.00	-4.22	118407.494	1.0	124782.770	1.0
1568.1869	28.00	-3.39	47328.850	2.0	53703.899	1.0
1568.2875	7.00	-.72	97770.150	.5	104144.790	.5
1568.2974	27.00	-4.80	46260.020	1.5	52634.620	.5
1568.3048	6.00	-2.04	81343.990	2.0	87718.560	1.0
1568.4406	10.00	-2.39	165912.782	1.0	172286.800	2.0
1568.4819	28.01	-3.73	130215.500	4.5	136589.350	3.5
1568.4929	18.00	-4.19	117183.654	2.0	123557.459	3.0
1568.5407	28.00	-3.26	42954.234	2.0	49327.845	2.0
1568.5434	22.00	-3.93	35527.760	1.0	41901.360	1.0
1568.5602	26.00	-3.76	47693.289	3.0	54066.821	2.0
1568.6220	26.00	-4.15	47693.289	3.0	54066.570	4.0
1568.6591	27.00	-4.67	46329.630	2.5	52702.760	1.5
1568.6665	13.01	-2.64	138811.900	1.0	145185.000	1.0
1568.6665	13.01	-2.43	138811.900	1.0	145185.000	0.0
1568.6665	13.01	-3.73	138811.900	1.0	145185.000	2.0
1568.6665	13.01	-2.16	138811.900	2.0	145185.000	1.0
1568.6665	13.01	-2.55	138811.900	2.0	145185.000	2.0
1568.6665	13.01	-1.80	138811.900	3.0	145185.000	2.0
1568.7034	18.00	-2.10	117563.020	0.0	123935.970	1.0
1569.0062	26.00	-4.32	47197.000	2.0	53568.720	2.0
1569.0235	26.00	-4.61	51630.230	5.0	58001.880	6.0
1569.2846	25.00	-3.63	41403.930	2.5	47774.520	3.5
1569.3314	23.01	-3.45	66303.880	3.0	72674.280	2.0
1569.3360	12.00	-3.62	54192.256	3.0	60562.637	2.0
1569.3360	12.00	-2.29	54192.256	3.0	60562.637	3.0
1569.3360	12.00	-2.48	54192.256	3.0	60562.637	3.0
1569.3360	12.00	-1.01	54192.256	3.0	60562.637	4.0
1569.3454	12.00	-2.25	54192.294	2.0	60562.637	2.0
1569.3454	12.00	-1.25	54192.294	2.0	60562.637	3.0
1569.3454	12.00	-2.72	54192.294	2.0	60562.637	3.0
1569.3523	26.00	-.30	43434.585	3.0	49804.900	3.0
1569.3557	12.00	-1.34	54192.336	1.0	60562.637	2.0
1569.4472	18.00	-3.37	114821.990	3.0	121191.920	2.0
1569.5097	26.00	-4.56	47555.584	1.0	53925.260	1.0
1569.5581	18.01	-4.67	203007.690	1.5	209377.170	2.5
1569.5803	6.00	-2.44	81343.990	2.0	87713.380	3.0
1569.7256	13.01	-.39	142362.800	2.0	148731.600	3.0
1569.7256	13.01	-1.30	142362.800	3.0	148731.600	3.0
1569.7749	15.01	-.84	124433.100	1.0	130801.700	1.0
1569.8747	26.00	-2.42	44166.240	3.0	50534.435	3.0
1569.8967	22.00	-2.26	15220.390	5.0	21588.496	4.0
1569.9302	23.01	-4.29	30673.140	2.0	37041.110	2.0
1569.9943	29.01	-3.31	130386.400	2.0	136754.110	2.0
1570.0313	22.00	-2.03	40670.600	2.0	47038.160	3.0
1570.0707	9.00	-3.31	130059.400	.5	136426.800	1.5
1570.1423	23.01	-3.26	30306.400	3.0	36673.510	2.0
1570.2015	9.00	-1.30	130221.120	1.5	136587.990	1.5
1570.3543	18.01	-.52	199879.320	3.5	206245.570	3.5
1570.7516	18.01	-1.57	205221.470	1.5	211586.110	2.5
1570.8084	29.01	-4.36	114511.440	1.0	120875.850	2.0
1570.8331	27.00	-4.04	49025.420	1.5	55389.730	1.5
1570.8345	20.00	-2.56	36554.749	1.0	42919.053	2.0
1570.8553	6.00	-3.85	81343.990	2.0	87708.210	2.0
1570.8661	18.00	-4.87	118407.494	1.0	124771.670	2.0
1571.0157	26.00	-4.73	48516.150	1.0	54879.720	2.0
1571.0379	28.01	-4.19	130225.870	3.5	136589.350	3.5
1571.0749	9.00	-.37	130221.120	1.5	136584.450	2.5
1571.0823	6.00	-2.52	82251.710	0.0	88615.010	1.0
1571.2058	15.00	-.72	57876.700	.5	64239.500	.5
1571.5583	22.00	-1.42	15108.121	3.0	21469.494	3.0
1571.6183	20.02	-1.73	336749.110	1.0	343110.240	0.0
1571.6472	22.00	-4.34	37690.320	5.0	44051.333	6.0
1571.6801	27.00	-2.97	40345.950	2.5	46706.830	3.5
1571.7295	25.00	-2.84	56490.790	2.5	62851.470	3.5
1571.7345	9.00	-4.31	130059.400	.5	136420.060	.5
1571.8355	18.00	-3.38	114805.180	2.0	121165.431	3.0
1571.8432	7.00	-1.69	106477.800	.5	112838.020	1.5
1571.9149	28.01	-3.07	115785.060	1.5	122144.990	2.5
1571.9223	28.01	-1.14	117074.700	3.5	123434.600	4.5
1571.9272	24.00	-4.71	48458.670	2.0	54818.550	2.0
1571.9445	27.00	-3.41	45904.680	1.5	52264.490	1.5
1571.9922	28.00	-4.76	42954.234	2.0	49313.851	3.0
1572.0582	25.00	-2.97	57485.970	2.5	63845.320	1.5
1572.0657	9.00	-1.25	129607.070	.5	135966.390	1.5
1572.0763	28.00	-1.43	44475.158	2.0	50834.435	2.0
1572.1126	28.01	-2.13	100010.170	.5	106369.300	1.5
1572.1645	27.00	-2.69	48546.070	1.5	54904.990	2.5
1572.3559	26.00	.43	45333.834	2.0	51691.980	3.0
1572.4464	27.00	-3.66	46746.000	2.5	53103.780	3.5
1572.4489	29.01	-1.38	116388.000	2.0	122745.770	2.0
1572.4663	13.01	-.71	139916.700	1.0	146274.400	2.0
1572.4692	7.00	-3.98	105143.680	2.5	111501.368	1.5
1572.4977	18.00	-2.82	117151.387	1.0	123508.960	0.0
1572.5347	22.00	-4.89	35559.627	5.0	41917.050	4.0
1572.6688	28.00	-.73	44475.158	2.0	50832.039	3.0
1572.7091	26.00	-4.22	47755.485	3.0	54112.203	2.0
1572.7237	22.00	-4.68	32857.721	3.0	39214.380	3.0
1572.7433	6.00	-1.03	77679.820	2.0	84036.400	2.0
1572.7705	6.00	-4.89	77679.820	2.0	84036.290	1.0
1572.9635	28.01	-4.83	114836.630	3.5	121192.320	3.5
1572.9813	10.00	-3.52	165912.782	1.0	172268.400	1.0
1572.9838	17.00	.43	84132.262	2.5	90487.870	3.5
1573.0351	26.00	-1.52	47377.909	4.0	53733.310	3.0
1573.1195	18.01	-2.30	194996.490	1.5	201351.550	2.5
1573.1294	26.00	-4.37	51619.140	3.0	57974.160	2.0
1573.1294	17.00	-2.90	84988.480	1.5	91343.500	2.5
1573.1477	26.00	-4.78	40534.180	3.0	46889.126	4.0
1573.1769	7.00	-3.63	104810.330	2.5	111165.158	1.5
1573.2086	30.02	-2.32	258277.700	3.0	264632.400	3.0
1573.2383	27.00	-4.91	45766.630	3.5	52121.210	4.5
1573.2556	25.01	-.24	79540.760	1.0	85895.270	2.0
1573.3041	26.00	-4.06	40534.180	3.0	46888.494	2.0
1573.3269	20.00	-1.81	41679.008	1.0	48033.230	2.0
1573.3373	23.02	-2.64	155569.100	2.5	161923.280	2.5
1573.3450	18.00	-4.94	117151.387	1.0	123505.536	2.0
1573.4180	12.00	-2.06	54706.536	1.0	61060.390	2.0
1573.4698	22.00	-4.45	37617.868	4.0	43971.513	5.0
1573.4809	23.00	-4.52	30635.600	2.5	36989.200	2.5
1573.4869	17.00	-.39	95400.731	2.5	101754.307	3.5
1573.4881	7.00	-4.11	104859.700	1.5	111213.271	1.5
1573.4889	55.00	-1.48	21946.660	0.0	28301.964	0.0
1573.5025	18.00	-2.07	107289.747	2.0	113643.260	1.0
1573.6172	27.00	-3.58	46562.870	1.5	52915.920	.5
1573.7279	22.00	-5.00	39715.437	3.0	46068.040	4.0
1573.7356	20.00	-2.32	41679.008	1.0	48031.580	1.0
1573.7935	22.00	-3.58	29661.232	1.0	36013.570	2.0
1574.0713	12.00	-.24	47841.119	0.0	54192.336	1.0
1574.1677	26.00	-2.85	44183.607	2.0	50534.435	3.0
1574.1712	26.00	.03	45595.046	0.0	51945.860	1.0
1574.1747	18.01	-2.27	205221.470	1.5	211572.270	1.5
1574.1846	25.01	-.20	79544.510	2.0	85895.270	2.0
1574.2044	24.00	-4.15	48636.140	3.0	54986.820	3.0
1574.2515	22.00	-1.86	40844.190	3.0	47194.680	4.0
1574.2614	23.00	-3.35	15770.720	4.5	22121.170	4.5
1574.3036	23.00	-4.19	32891.060	3.5	39241.340	2.5
1574.3574	14.00	-2.43	56780.427	1.0	63130.490	1.0
1574.3581	25.00	-3.81	41403.930	2.5	47753.990	2.5
1574.3594	26.00	-4.43	44511.795	2.0	50861.850	3.0
1574.3729	13.01	-1.22	142849.200	4.0	149199.200	3.0
1574.3729	13.01	-2.06	142849.200	4.0	149199.200	3.0
1574.3729	13.01	-2.98	142849.200	3.0	149199.200	3.0
1574.4846	22.00	-2.73	35757.510	4.0	42107.060	4.0
1574.4908	26.00	-4.27	44511.795	2.0	50861.320	2.0
1574.6693	26.00	-4.73	47420.215	5.0	53769.020	4.0
1574.6880	18.01	-1.62	194996.490	1.5	201345.220	1.5
1574.8616	23.00	-3.42	30635.600	2.5	36983.630	1.5
1574.8884	12.00	-.36	47844.414	1.0	54192.336	1.0
1574.8963	10.01	-1.08	322348.010	3.5	328695.900	2.5
1574.8988	12.00	-.06	47844.414	1.0	54192.294	2.0
1574.9186	10.01	-2.89	312763.910	4.5	319111.710	4.5
1574.9211	10.01	-4.51	312763.910	4.5	319111.700	3.5
1574.9665	17.00	-3.47	95597.593	.5	101945.200	.5
1574.9665	17.00	-2.44	95597.593	.5	101945.200	1.5
1575.0402	22.00	-4.66	40302.950	3.0	46650.260	3.0
1575.1023	18.00	-3.45	119444.880	2.0	125791.940	2.0
1575.1469	18.01	-1.10	183090.810	1.5	189437.690	.5
1575.1673	26.00	-4.97	51294.262	3.0	57641.060	3.0
1575.2142	22.00	-4.85	37555.021	3.0	43901.630	4.0
1575.2164	15.01	-3.02	132397.700	2.0	138744.300	3.0
1575.2412	13.01	-2.50	125866.700	1.0	132213.200	1.0
1575.3132	10.01	-3.02	312765.490	3.5	319111.700	3.5
1575.3331	28.01	-3.93	129284.500	2.5	135630.630	2.5
1575.3604	24.00	-4.06	48458.670	2.0	54804.690	1.0
1575.3666	28.00	-2.04	44112.192	1.0	50458.187	1.0
1575.5135	17.00	-4.79	94827.150	2.5	101172.553	1.5
1575.5888	18.00	-1.25	118512.170	0.0	124857.270	1.0
1575.6161	25.01	-.42	79550.280	3.0	85895.270	2.0
1575.6385	28.01	-3.61	129284.500	2.5	135629.400	3.5
1575.6958	26.00	-3.66	47008.351	5.0	53353.020	6.0
1575.7301	26.00	-4.89	47377.909	4.0	53722.440	5.0
1575.7835	7.00	-4.57	104859.700	1.5	111204.016	2.5
1575.8024	28.01	-2.80	99154.810	4.5	105499.050	3.5
1575.8347	22.00	-3.11	35527.760	1.0	41871.870	2.0
1575.8396	26.00	-3.42	51630.070	2.0	57974.160	2.0
1575.8784	20.00	-4.45	36575.119	2.0	42919.053	2.0
1575.8844	28.01	-4.29	114836.630	3.5	121180.540	4.5
1575.9117	22.00	-3.40	35527.760	1.0	41871.560	0.0
1575.9290	14.00	-3.63	57450.580	3.0	63794.310	2.0
1575.9415	25.00	-.59	50012.530	2.5	56356.210	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1576.0009	18.00	-2.58	114821.990	3.0	121165.431	3.0
1576.1271	14.00	-3.22	56780.427	1.0	63123.360	0.0
1576.1870	14.00	-2.78	57541.918	1.0	63884.610	1.0
1576.1949	29.01	-2.61	115639.020	2.0	121981.680	2.0
1576.1999	22.00	-1.54	34327.960	1.0	40670.600	2.0
1576.2049	28.01	-4.24	129297.910	3.5	135640.530	4.5
1576.3112	26.00	-4.98	45428.385	4.0	51770.577	3.0
1576.3764	28.01	-4.54	114836.630	3.5	121178.560	3.5
1576.4733	9.02	-4.30	384493.060	1.5	390834.600	2.5
1576.5643	12.00	-1.54	47851.162	2.0	54192.336	1.0
1576.5748	12.00	-.54	47851.162	2.0	54192.294	2.0
1576.5827	26.00	-4.29	53830.960	3.0	60172.060	4.0
1576.5841	12.00	.38	47851.162	2.0	54192.256	3.0
1576.6125	9.00	-2.21	129772.830	2.5	136113.810	1.5
1576.7428	26.00	-3.07	46720.824	4.0	53061.280	5.0
1576.7600	26.00	-.68	47960.973	4.0	54301.360	4.0
1576.7717	19.00	-2.25	27397.100	2.5	33737.440	1.5
1576.7866	15.00	-2.50	66544.120	2.5	72884.400	2.5
1576.8369	7.00	-4.43	104825.080	2.5	111165.158	1.5
1576.9167	26.00	.79	44676.963	4.0	51016.720	5.0
1576.9309	10.01	-2.86	312772.010	3.5	319111.710	4.5
1576.9334	10.01	-4.55	312772.010	3.5	319111.700	3.5
1576.9806	28.01	-3.71	129988.050	2.5	136327.550	1.5
1576.9806	15.00	-4.67	69852.800	.5	76192.300	1.5
1577.0303	19.00	-3.21	27398.140	1.5	33737.440	1.5
1577.0428	10.01	-2.92	312772.450	2.5	319111.700	3.5
1577.0433	26.00	-.46	43163.282	4.0	49502.530	5.0
1577.0682	7.00	-4.08	104859.700	1.5	111198.848	.5
1577.0826	28.01	-4.83	129284.500	2.5	135623.590	1.5
1577.1100	7.00	-1.02	97805.810	1.5	104144.790	.5
1577.1687	14.00	-1.83	57017.496	2.0	63356.240	2.0
1577.2244	22.00	-1.44	41780.950	4.0	48119.470	5.0
1577.2294	24.00	-2.78	48636.140	3.0	54974.640	2.0
1577.2394	19.00	-2.51	27398.140	1.5	33736.600	.5
1577.2742	22.00	-1.54	41895.150	5.0	48233.470	6.0
1577.3247	26.00	-4.62	38995.717	1.0	45333.834	2.0
1577.3289	28.01	-2.81	129284.500	2.5	135622.600	3.5
1577.3887	23.00	-2.34	17181.980	4.5	23519.840	4.5
1577.4305	22.00	-.38	37824.748	4.0	44162.440	4.0
1577.6538	18.00	-1.89	107131.755	1.0	113468.550	2.0
1577.6578	26.00	-3.23	47929.981	4.0	54266.760	5.0
1577.6625	27.00	-3.86	48828.870	2.5	55165.630	2.5
1577.7696	26.01	-4.74	93487.710	3.5	99824.040	2.5
1577.8194	26.00	-4.11	51361.460	3.0	57697.590	4.0
1577.8517	16.01	-3.62	158666.450	1.5	165002.450	1.5
1577.8816	16.00	-2.74	74972.250	4.0	81308.130	3.0
1577.8816	16.00	-1.57	74972.250	4.0	81308.130	4.0
1577.8816	16.00	-.70	74972.250	4.0	81308.130	5.0
1577.8956	14.00	-3.10	45276.188	1.0	51612.012	0.0
1577.9153	17.00	-1.52	95897.565	1.5	102233.310	2.5
1577.9912	22.00	-2.98	35652.950	3.0	41988.390	3.0
1577.9987	28.01	-3.29	129284.500	2.5	135619.910	1.5
1578.0211	28.01	-3.65	94283.940	4.5	100619.260	4.5
1578.0268	22.00	-2.14	31489.451	4.0	37824.748	4.0
1578.1182	16.00	-2.44	74973.200	3.0	81308.130	2.0
1578.1182	16.00	-1.42	74973.200	3.0	81308.130	3.0
1578.1182	16.00	-.87	74973.200	3.0	81308.130	4.0
1578.1444	28.00	-2.42	45122.460	1.0	51457.285	0.0
1578.2752	28.01	-1.84	113321.950	4.5	119656.250	3.5
1578.3998	16.00	-2.44	74974.330	2.0	81308.130	1.0
1578.3998	16.00	-1.44	74974.330	2.0	81308.130	2.0
1578.3998	16.00	-1.06	74974.330	2.0	81308.130	3.0
1578.4546	28.01	-2.88	129284.500	2.5	135618.080	2.5
1578.4546	6.00	-.93	77679.820	2.0	84013.400	2.0
1578.4920	6.00	-1.01	77679.820	2.0	84013.250	3.0
1578.5162	20.00	-3.17	42343.587	3.0	48676.920	2.0
1578.6191	16.00	-1.60	74975.210	1.0	81308.130	1.0
1578.6191	16.00	-1.29	74975.210	1.0	81308.130	2.0
1578.6216	28.01	-2.84	115592.250	1.5	121925.160	.5
1578.6366	22.00	-4.79	35685.160	6.0	42018.010	5.0
1578.6383	17.00	-3.82	95612.357	1.5	101945.200	.5
1578.6383	17.00	-3.67	95612.357	1.5	101945.200	1.5
1578.6665	14.00	-1.02	57450.580	3.0	63783.310	4.0
1578.6690	28.01	-3.98	129297.910	3.5	135630.630	2.5
1578.7438	18.00	-2.51	119444.880	2.0	125777.300	1.0
1578.7662	16.00	-1.60	74975.800	0.0	81308.130	1.0
1578.7762	26.00	-4.86	51365.300	3.0	57697.590	4.0
1578.9757	28.01	-3.11	129297.910	3.5	135629.400	3.5
1579.0330	23.00	-4.32	30694.340	3.5	37025.600	3.5
1579.2081	7.00	-2.78	104996.240	1.5	111326.798	2.5
1579.2226	28.01	-1.88	129297.910	3.5	135628.410	4.5
1579.3131	18.00	-1.35	112138.980	2.0	118469.117	2.0
1579.3349	26.00	-3.70	47831.132	2.0	54161.182	3.0
1579.4055	7.00	-1.20	106477.800	.5	112807.567	.5
1579.5455	28.00	-1.81	47424.830	1.0	53754.036	2.0
1579.6168	27.00	-2.39	46746.000	2.5	53074.920	1.5
1579.6193	28.01	-3.00	130570.420	.5	136899.330	1.5
1579.6418	9.00	-3.26	129772.830	2.5	136101.650	3.5
1579.6647	18.00	-4.32	118459.662	1.0	124788.390	1.0
1579.7441	14.00	-1.90	54528.220	2.0	60856.630	1.0
1579.7891	28.01	-3.67	99340.550	3.5	105668.780	2.5
1579.8735	12.00	-2.09	54676.438	3.0	61004.330	2.0
1579.8735	12.00	-3.23	54676.438	3.0	61004.330	3.0
1579.8764	28.01	-3.41	115785.060	1.5	122112.940	.5
1579.8927	22.00	-3.39	29768.655	2.0	36096.470	3.0
1579.9069	26.00	-.31	45509.112	1.0	51836.870	1.0
1579.9413	12.00	-3.17	54676.710	2.0	61004.330	2.0
1579.9413	12.00	-2.26	54676.710	2.0	61004.330	1.0
1579.9413	12.00	-4.28	54676.710	3.0	61004.330	2.0
1579.9413	12.00	-4.54	54676.710	2.0	61004.330	3.0
1579.9413	12.00	-3.37	54676.710	3.0	61004.330	3.0
1579.9413	12.00	-1.93	54676.710	4.0	61004.330	3.0
1579.9596	26.00	-4.58	47420.000	2.0	53747.547	3.0
1580.0460	7.00	-4.66	104886.070	.5	111213.271	1.5
1580.0949	14.00	-1.26	54871.031	1.0	61198.036	0.0
1580.1157	26.00	-4.63	47834.260	3.0	54161.182	3.0
1580.1262	9.02	-4.11	458594.860	2.5	464921.740	3.5
1580.2211	28.01	-3.70	107082.210	2.5	113408.710	1.5
1580.2637	10.00	-2.37	163401.301	0.0	169727.630	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1580.3792	26.00	-4.85	44285.436	2.0	50611.303	3.0
1580.4034	24.00	-4.05	26787.500	3.0	33113.270	4.0
1580.5708	28.01	-2.91	107082.210	2.5	113407.310	2.5
1580.6083	29.01	-1.13	117231.690	1.0	123556.640	2.0
1580.6733	28.01	-2.20	129297.910	3.5	135622.600	3.5
1580.6860	17.00	-2.24	95400.731	2.5	101725.370	1.5
1580.7208	27.00	-4.60	47612.180	1.5	53936.680	2.5
1580.7908	22.00	-3.20	35577.140	2.0	41901.360	1.0
1580.9920	26.00	-1.73	47005.455	5.0	53328.870	4.0
1581.0332	7.00	-3.70	104221.600	1.5	110544.850	2.5
1581.0380	7.00	-2.51	106477.800	.5	112801.031	1.5
1581.0447	14.00	-1.03	57017.496	2.0	63340.700	3.0
1581.0687	18.00	-4.24	118459.662	1.0	124782.770	1.0
1581.0958	14.00	-3.32	57450.580	3.0	63773.580	2.0
1581.1683	14.00	-2.24	57450.580	3.0	63773.290	3.0
1581.1718	7.00	-3.35	104881.320	3.5	111204.016	2.5
1581.2171	10.00	-2.32	161524.174	1.0	167846.689	2.0
1581.2408	28.01	-4.98	109269.830	1.5	115592.250	1.5
1581.2633	26.00	-2.98	45281.816	2.0	51604.146	3.0
1581.3753	18.00	-3.00	117183.654	2.0	123505.536	2.0
1581.3803	14.00	-2.92	57541.918	1.0	63863.780	2.0
1581.4684	10.01	-1.49	301855.710	2.5	308177.220	1.5
1581.5072	13.00	-2.03	40271.965	.5	46593.320	1.5
1581.5673	17.00	-2.23	95897.565	1.5	102218.680	2.5
1581.6424	17.00	-2.27	95897.565	1.5	102218.380	1.5
1581.6611	28.01	-3.75	108548.610	1.5	114869.350	1.5
1581.6757	18.00	-1.04	112138.980	2.0	118459.662	1.0
1581.7112	17.00	-3.36	94732.300	3.5	101052.840	2.5
1581.7386	18.01	-3.75	195031.120	2.5	201351.550	2.5
1581.7847	26.00	-3.86	44378.420	1.0	50698.666	2.0
1581.7962	13.01	-.45	138811.900	3.0	145132.100	4.0
1581.7980	26.00	.69	45061.287	3.0	51381.480	4.0
1581.8037	28.01	-2.87	129297.910	3.5	135618.080	2.5
1581.8538	17.00	-.33	85244.330	.5	91564.300	.5
1581.9665	18.01	-3.57	208591.780	1.5	214911.300	2.5
1581.9940	9.00	-3.55	129772.830	2.5	136092.240	2.5
1582.0266	18.00	-2.96	117563.020	0.0	123882.300	1.0
1582.0283	26.00	-3.50	47420.215	5.0	53739.488	5.0
1582.0315	28.01	-3.66	114874.880	2.5	121194.140	2.5
1582.0816	24.00	-4.39	27223.050	2.0	33542.110	2.0
1582.2273	26.00	.23	45509.112	1.0	51827.590	2.0
1582.2774	7.00	-2.05	105008.520	2.5	111326.798	2.5
1582.3095	24.00	-4.82	35934.020	6.0	42252.170	6.0
1582.3145	28.00	-2.53	42767.900	3.0	49086.030	4.0
1582.3471	10.03	-4.65	635866.000	.5	642184.000	1.5
1582.4372	28.01	-4.48	115000.250	3.5	121317.890	3.5
1582.4823	10.01	-2.48	322348.010	4.5	328665.470	4.5
1582.4873	28.01	-3.52	114874.880	2.5	121192.320	3.5
1582.5099	27.00	-3.09	46454.950	1.5	52772.300	2.5
1582.5114	28.00	-3.95	42954.234	2.0	49271.578	3.0
1582.5198	10.01	-3.66	322348.010	4.5	328665.320	5.5
1582.5950	9.00	-3.23	129772.830	2.5	136089.840	1.5
1582.5975	13.01	-.98	138811.900	2.0	145128.900	3.0
1582.5975	13.01	-1.89	138811.900	3.0	145128.900	3.0
1582.6143	14.00	-2.32	56780.427	1.0	63097.360	1.0
1582.6860	18.00	-3.22	117151.387	1.0	123468.034	1.0
1582.7213	14.00	-1.91	57198.027	3.0	63514.533	4.0
1582.7684	26.00	-3.79	47452.702	4.0	53769.020	4.0
1582.7779	29.01	-1.39	115665.400	1.0	121981.680	2.0
1582.8205	26.00	-3.06	51381.480	4.0	57697.590	4.0
1582.8285	13.00	-1.77	40277.872	1.5	46593.950	2.5
1582.8937	22.00	-4.32	18911.399	2.0	25227.217	3.0
1582.9258	28.01	-2.82	93528.440	3.5	99844.130	3.5
1582.9358	18.01	-1.65	184191.710	.5	190507.360	1.5
1582.9864	13.00	-2.73	40277.872	1.5	46593.320	1.5
1583.1151	20.00	-1.08	42514.845	0.0	48829.780	1.0
1583.1188	6.00	-3.30	71364.900	1.0	77679.820	2.0
1583.1238	24.00	-4.42	48331.300	1.0	54646.200	0.0
1583.1990	25.00	-2.75	56356.210	3.5	62670.810	4.5
1583.1990	13.01	-1.52	138811.900	2.0	145126.500	2.0
1583.1990	13.01	-.79	138811.900	1.0	145126.500	2.0
1583.1990	13.01	-3.06	138811.900	3.0	145126.500	2.0
1583.2376	28.00	-2.48	50789.500	4.0	57103.946	3.0
1583.2667	23.01	-4.55	44159.430	2.0	50473.760	1.0
1583.3244	18.01	-1.04	195031.120	2.5	201345.220	1.5
1583.3394	17.00	-2.71	94827.150	2.5	101141.190	3.5
1583.3603	14.00	-.66	50189.389	2.0	56503.346	2.0
1583.4172	23.00	-5.69	14514.750	1.5	20828.480	2.5
1583.4247	17.01	-3.21	140740.000	1.0	147053.700	2.0
1583.4347	28.01	-3.96	130205.620	5.5	136519.280	4.5
1583.4724	23.00	-3.71	37752.540	2.5	44066.050	3.5
1583.4925	9.00	-1.42	130141.650	1.5	136455.080	1.5
1583.6045	14.00	-3.74	56780.427	1.0	63093.410	2.0
1583.6560	7.00	-4.38	104886.070	.5	111198.848	.5
1583.6738	22.00	-2.33	15156.787	4.0	21469.494	3.0
1583.7558	28.01	-4.71	130206.900	4.5	136519.280	4.5
1583.7659	14.00	-1.46	57450.580	3.0	63762.920	4.0
1583.8110	10.01	-.45	302425.870	1.5	308738.030	1.5
1583.8492	18.00	-3.48	118459.662	1.0	124771.670	2.0
1583.9465	14.00	-1.65	57450.580	3.0	63762.200	3.0
1583.9967	23.02	-4.00	154265.200	3.5	160576.620	3.5
1584.0785	14.00	-2.49	54185.264	1.0	60496.358	2.0
1584.0841	20.00	-1.68	42518.708	1.0	48829.780	1.0
1584.0841	20.00	-4.73	42518.708	1.0	48829.780	2.0
1584.1732	17.00	-1.03	95534.923	.5	101845.640	1.5
1584.1775	15.00	-1.41	75484.400	2.5	81795.100	3.5
1584.2214	26.00	-4.90	44551.325	3.0	50861.850	3.0
1584.2553	28.01	-4.64	130208.890	3.5	136519.280	4.5
1584.3005	27.00	-5.00	47393.930	2.5	53704.140	2.5
1584.3933	9.00	-.48	130141.650	1.5	136451.490	2.5
1584.4436	22.00	-4.83	36414.470	3.0	42724.110	2.0
1584.5471	7.00	-1.66	105017.570	3.5	111326.798	2.5
1584.5666	22.00	-.89	34535.040	2.0	40844.190	1.0
1584.5666	22.00	-1.05	34535.040	2.0	40844.190	3.0
1584.6370	18.01	-1.32	183797.360	2.5	190106.230	1.5
1584.8580	6.00	-4.61	81325.760	1.0	87633.750	2.0
1584.9009	14.00	-1.61	54313.818	1.0	60621.640	0.0
1584.9812	30.02	-1.87	293768.600	1.0	300076.100	2.0
1585.1136	26.00	-4.90	52213.207	3.0	58520.180	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1585.2576	6.00	-2.84	79318.780	1.0	85625.180	0.0
1585.2576	6.00	-.62	77679.820	2.0	83986.220	3.0
1585.3557	9.00	-.74	130149.070	.5	136455.080	1.5
1585.3650	26.00	-.22	48036.667	2.0	54342.640	2.0
1585.4688	22.00	-4.06	35652.950	3.0	41958.510	2.0
1585.4944	7.00	-3.48	104859.700	1.5	111165.158	1.5
1585.5065	9.00	-2.13	129772.830	2.5	136078.240	2.5
1585.5442	23.01	-3.12	30613.970	4.0	36919.230	3.0
1585.8813	23.00	-4.37	30771.720	4.5	37075.640	4.5
1585.9165	28.01	-4.03	130215.500	4.5	136519.280	4.5
1585.9416	28.01	-3.29	114874.880	2.5	121178.560	3.5
1585.9668	24.00	.29	37883.340	2.0	44186.920	2.0
1585.9945	24.00	-1.91	48515.080	3.0	54818.550	2.0
1586.0096	9.00	-2.51	129381.860	2.5	135685.270	1.5
1586.0146	23.00	-4.22	20202.490	2.5	26505.880	2.5
1586.0652	20.00	-1.37	42526.591	2.0	48829.780	2.0
1586.0652	20.00	-.45	42526.591	2.0	48829.780	3.0
1586.0652	20.00	-2.37	42526.591	2.0	48829.780	1.0
1586.1827	14.00	-1.71	57541.918	1.0	63844.640	0.0
1586.2252	18.00	-4.01	118469.117	2.0	124771.670	2.0
1586.3541	14.00	-1.22	57468.239	2.0	63770.280	1.0
1586.3997	28.01	-1.93	99559.330	2.5	105861.190	2.5
1586.4050	14.00	-1.86	54185.264	1.0	60487.103	1.0
1586.5230	25.00	-.33	49888.080	3.5	56189.450	4.5
1586.5396	7.00	-2.80	104984.340	.5	111285.644	1.5
1586.6107	26.00	-2.83	47092.693	3.0	53393.715	4.0
1586.7068	27.00	-4.31	47393.930	2.5	53694.570	3.5
1586.7295	28.01	-3.35	129988.050	2.5	136288.600	2.5
1586.7598	17.00	-2.43	84648.100	2.5	90948.530	1.5
1586.8245	26.00	.08	45061.287	3.0	51361.460	3.0
1586.9360	28.01	-3.10	115785.060	1.5	122084.790	1.5
1586.9635	28.00	-2.61	42653.723	2.0	48953.344	1.0
1586.9680	17.00	.54	83894.037	3.5	90193.640	4.5
1587.0066	7.00	-2.74	104221.600	1.5	110521.050	1.5
1587.0494	14.01	-.34	118523.120	1.5	124822.400	2.5
1587.0671	14.01	-1.49	118523.190	2.5	124822.400	2.5
1587.0822	14.01	-.19	118523.190	2.5	124822.340	3.5
1587.1930	27.00	-1.08	41225.760	4.5	47524.470	4.5
1587.2006	27.00	-2.63	46671.940	2.5	52970.620	2.5
1587.3165	23.00	-3.69	17054.870	2.5	23353.090	3.5
1587.3241	26.00	-3.82	54066.570	4.0	60364.760	3.0
1587.3399	9.00	-4.06	117622.923	2.5	123921.050	2.5
1587.3593	9.00	-2.52	129772.830	2.5	136070.880	3.5
1587.3873	26.00	-4.00	54066.821	2.0	60364.760	3.0
1587.4128	22.00	-4.05	29661.232	1.0	35959.070	1.0
1587.4239	12.00	-2.43	54706.536	1.0	61004.330	2.0
1587.4274	22.01	-2.25	25193.040	2.5	31490.820	3.5
1587.4325	26.00	-2.63	53874.300	5.0	60172.060	4.0
1587.4476	15.00	-3.60	69894.600	1.5	76192.300	1.5
1587.4728	15.01	-.31	125391.900	4.0	131689.500	4.0
1587.5358	27.00	-3.81	48217.320	3.5	54514.670	3.5
1587.5358	6.00	-3.62	82251.710	0.0	88549.060	1.0
1587.6001	22.00	-4.04	29768.655	2.0	36065.750	3.0
1587.6172	28.00	-3.52	42656.317	1.0	48953.344	1.0
1587.6644	25.00	-4.99	56490.790	2.5	62787.630	1.5
1587.6745	28.01	-3.23	100845.410	.5	107142.210	1.5
1587.7103	22.00	-3.60	29912.262	3.0	36208.920	4.0
1587.8167	26.00	-.06	45333.834	2.0	51630.070	2.0
1587.8258	8.01	-1.99	248185.300	2.5	254481.500	3.5
1587.8384	28.01	-3.79	109269.830	1.5	115565.980	2.5
1587.9524	12.00	-2.30	47957.028	2.0	54252.726	2.0
1587.9567	12.00	-1.38	47957.045	3.0	54252.726	2.0
1587.9595	12.00	-3.30	47957.056	1.0	54252.726	2.0
1587.9740	18.00	-3.81	114975.070	1.0	121270.682	2.0
1587.9745	18.01	-2.16	199959.620	2.5	206255.230	2.5
1588.0232	14.00	-3.64	56690.903	2.0	62986.320	2.0
1588.0755	22.00	-4.05	35757.510	4.0	42052.720	3.0
1588.1141	14.00	-2.98	56690.903	2.0	62985.960	1.0
1588.1184	10.01	-4.46	312816.670	5.5	319111.710	4.5
1588.1411	10.01	-4.57	312816.750	4.5	319111.700	3.5
1588.1638	23.00	-3.21	30694.340	3.5	36989.200	2.5
1588.1966	22.00	-3.30	35577.140	2.0	41871.870	2.0
1588.2698	6.00	-2.99	71385.380	2.0	77679.820	2.0
1588.2748	28.01	-4.36	115000.250	3.5	121294.670	4.5
1588.3064	18.00	-.86	107131.755	1.0	113426.050	2.0
1588.3379	17.00	-.26	85244.330	.5	91538.500	1.5
1588.4247	17.00	-1.43	95706.534	1.5	102000.360	1.5
1588.4454	14.00	-.74	48020.074	1.0	54313.818	1.0
1588.4600	17.00	-1.72	88188.550	1.5	94482.236	2.5
1588.5827	9.00	-4.42	130141.650	1.5	136434.850	2.5
1588.6186	12.00	-1.82	47957.028	2.0	54250.086	1.0
1588.6256	12.00	-2.13	47957.056	1.0	54250.086	1.0
1588.6589	26.00	-3.21	46982.302	6.0	53275.200	7.0
1588.7342	26.01	-4.57	93395.600	2.5	99688.200	3.5
1588.8410	14.00	-.03	40991.884	1.0	47284.061	1.0
1588.8854	14.00	-.51	57468.239	2.0	63760.240	3.0
1588.9084	28.01	-4.31	113753.040	4.5	120044.950	4.5
1588.9481	12.00	-2.00	47957.056	1.0	54248.809	0.0
1589.0021	22.00	-4.86	32857.721	3.0	39149.260	2.0
1589.0706	14.00	-1.67	54205.090	2.0	60496.358	2.0
1589.1125	22.00	-2.54	30060.328	4.0	36351.430	5.0
1589.1483	22.00	-2.86	41895.150	5.0	48186.110	4.0
1589.2090	29.01	-1.97	116576.810	0.0	122867.530	1.0
1589.2595	28.01	-2.13	100078.780	1.5	106369.300	1.5
1589.3782	23.00	-4.95	33306.960	4.5	39597.010	4.5
1589.4515	6.00	-3.54	81343.990	2.0	87633.750	2.0
1589.5415	7.00	-2.18	104996.240	1.5	111285.644	1.5
1589.5956	24.00	-2.63	42218.370	0.0	48507.560	1.0
1589.6803	26.00	-2.22	44415.057	4.0	50703.912	5.0
1589.6944	22.00	-4.75	37555.021	3.0	43843.820	3.0
1589.7852	28.01	-2.04	100332.090	4.5	106620.530	3.5
1589.8108	14.00	-2.45	57295.881	0.0	63584.220	1.0
1589.8210	14.00	-3.38	57798.072	2.0	64086.370	1.0
1589.9710	14.00	-1.06	54528.220	2.0	60815.925	2.0
1589.9773	18.00	.20	115366.900	1.0	121654.580	2.0
1590.0155	26.00	-3.10	44411.137	1.0	50698.666	2.0
1590.0835	28.01	-4.82	52205.950	3.5	58493.210	2.5
1590.0846	7.00	-2.47	104984.340	.5	111271.596	.5
1590.0856	26.00	-4.72	47106.463	4.0	53393.715	4.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1590.1670	28.01	-4.17	114874.880	2.5	121161.810	1.5
1590.2034	26.00	-3.99	47452.702	4.0	53739.488	5.0
1590.2125	19.00	-2.87	27450.690	.5	33737.440	1.5
1590.2679	12.00	-1.89	54248.809	0.0	60535.340	1.0
1590.3314	26.01	-4.00	54870.620	2.5	61156.900	3.5
1590.3704	22.00	-2.18	31373.801	3.0	37659.927	3.0
1590.3846	14.00	-.71	56700.250	1.0	62986.320	2.0
1590.4149	18.01	-.36	199959.620	2.5	206245.570	3.5
1590.4251	19.00	-3.17	27450.690	.5	33736.600	.5
1590.4757	14.00	-.99	56700.250	1.0	62985.960	1.0
1590.4807	24.00	-4.24	42538.810	3.0	48824.500	4.0
1590.5779	26.00	.08	45333.834	2.0	51619.140	3.0
1590.5910	12.00	-2.01	54250.086	1.0	60535.340	1.0
1590.5910	12.00	-1.71	54250.086	1.0	60535.340	2.0
1590.6072	27.00	-4.41	46685.430	1.5	52970.620	2.5
1590.6173	9.00	-1.99	130141.650	1.5	136426.800	1.5
1590.7566	30.02	.08	293768.600	1.0	300053.200	2.0
1590.8123	18.00	-2.52	117183.654	2.0	123468.034	1.0
1590.8224	27.00	-1.52	42434.230	2.5	48718.570	2.5
1590.8502	26.00	-3.39	47590.070	4.0	53874.300	5.0
1590.9421	7.00	-4.61	104859.700	1.5	111143.567	.5
1590.9687	22.00	-4.66	37617.868	4.0	43901.630	4.0
1591.1135	27.00	-1.30	41918.410	3.5	48201.600	3.5
1591.2377	15.01	.23	123891.600	2.0	130174.300	2.0
1591.2595	12.00	-3.19	54252.726	2.0	60535.340	1.0
1591.2595	12.00	-2.18	54252.726	2.0	60535.340	2.0
1591.2595	12.00	-1.26	54252.726	2.0	60535.340	3.0
1591.3162	28.01	-3.86	127331.600	2.5	133613.990	1.5
1591.3288	17.00	-1.21	94663.670	1.5	100946.010	.5
1591.3729	7.00	-1.57	106477.800	.5	112759.966	1.5
1591.3751	18.00	-3.91	114975.070	1.0	121257.227	1.0
1591.3767	14.00	-2.46	57468.239	2.0	63750.390	1.0
1591.4099	28.01	-4.67	130570.420	.5	136852.440	1.5
1591.4116	14.00	-1.70	54205.090	2.0	60487.103	1.0
1591.4246	26.00	-.29	43763.938	1.0	50045.900	2.0
1591.4474	12.00	-4.00	54676.438	3.0	60958.310	2.0
1591.4757	27.00	-1.69	42796.670	1.5	49078.430	1.5
1591.5148	17.00	-.50	95706.534	1.5	101988.140	2.5
1591.5163	18.01	-1.74	183914.560	.5	190196.160	.5
1591.5163	12.00	-2.08	54676.710	3.0	60958.310	2.0
1591.5163	12.00	-3.48	54676.710	2.0	60958.310	2.0
1591.5348	22.00	-4.94	18825.890	1.0	25107.417	2.0
1591.5568	23.01	-3.35	30673.140	2.0	36954.580	1.0
1591.6194	22.00	-4.81	37690.320	5.0	43971.513	5.0
1591.6227	10.01	-2.95	301855.710	2.5	308136.890	1.5
1591.6683	15.01	-.13	123345.000	0.0	129626.000	1.0
1591.6861	24.00	-3.48	35501.260	3.0	41782.190	4.0
1591.7725	14.00	-3.37	50499.838	2.0	56780.427	1.0
1591.7976	23.00	-3.10	32846.740	2.5	39127.730	1.5
1591.8221	26.00	-4.93	29798.960	4.0	36079.353	3.0
1591.8351	22.00	-4.78	41928.528	2.0	48208.870	3.0
1591.8964	15.00	-2.53	75484.400	2.5	81764.500	1.5
1591.9066	25.00	-4.22	38008.700	5.5	44288.760	4.5
1592.0105	23.00	-5.01	14548.830	2.5	20828.480	2.5
1592.1063	26.00	-2.08	44243.668	5.0	50522.940	6.0
1592.1530	7.00	-4.87	104886.070	.5	111165.158	1.5
1592.1578	28.00	-1.64	47424.830	1.0	53703.899	1.0
1592.1806	28.00	-1.49	44475.158	2.0	50754.137	2.0
1592.1930	25.00	-2.75	57485.970	2.5	63764.900	2.5
1592.1946	26.00	-4.46	48531.896	3.0	54810.820	4.0
1592.1953	17.00	-2.91	95313.749	1.5	101592.670	.5
1592.2083	22.00	-2.96	41780.950	4.0	48059.820	3.0
1592.2438	28.01	-1.27	99559.330	2.5	105838.060	3.5
1592.3250	9.00	-2.33	130141.650	1.5	136420.060	.5
1592.4340	29.01	-3.56	110365.980	2.0	116643.960	3.0
1592.4822	23.00	-3.98	20202.490	2.5	26480.280	3.5
1592.4822	23.00	-1.40	17242.050	5.5	23519.840	4.5
1592.4974	9.00	-2.74	130149.070	.5	136426.800	1.5
1592.5278	22.00	-4.27	37976.780	2.0	44254.390	3.0
1592.5507	23.01	-4.43	30641.710	3.0	36919.230	3.0
1592.6512	7.00	-2.12	105008.520	2.5	111285.644	1.5
1592.6727	26.00	-4.39	37157.546	2.0	43434.585	3.0
1592.6826	15.00	-2.59	74271.800	1.5	80548.800	2.5
1592.8128	26.00	-3.49	47960.973	4.0	54237.460	4.0
1592.8721	17.00	.15	85917.937	.5	92194.190	1.5
1592.9516	7.00	-3.89	110349.060	2.5	116625.000	1.5
1592.9516	7.00	-4.30	110349.060	2.5	116625.000	2.5
1592.9821	27.00	-3.83	39649.160	3.5	45924.980	3.5
1593.0999	7.00	-2.65	104996.240	1.5	111271.596	.5
1593.2664	23.00	-3.56	15688.800	2.5	21963.500	3.5
1593.2740	15.00	-1.14	66343.330	.5	72618.000	.5
1593.2969	18.01	-.93	202420.490	.5	208695.070	1.5
1593.5229	27.00	-3.61	46186.410	1.5	52460.100	2.5
1593.5887	26.00	-4.56	47693.289	3.0	53966.720	2.0
1593.5965	13.01	-1.25	139916.700	1.0	146190.100	0.0
1593.6006	26.00	-3.95	47008.351	5.0	53281.735	5.0
1593.6245	18.01	-3.79	199981.940	1.5	206255.230	2.5
1593.7515	23.01	-4.45	44200.970	1.0	50473.760	1.0
1593.8202	18.01	-3.67	157233.930	3.5	163506.450	3.5
1593.9269	28.01	-3.46	114874.880	2.5	121146.980	2.5
1594.1038	26.00	-2.19	46889.126	4.0	53160.530	3.0
1594.1638	10.00	-2.91	164285.882	0.0	170557.050	1.0
1594.2090	9.00	-2.39	130149.070	.5	136420.060	.5
1594.2293	22.00	-4.93	36340.670	2.0	42611.580	1.0
1594.3234	25.00	-4.71	56490.790	2.5	62761.330	2.5
1594.3564	18.00	-3.98	119212.930	3.0	125483.340	2.0
1594.4022	18.00	-2.82	119212.930	3.0	125483.160	3.0
1594.5192	18.00	-2.74	119212.930	3.0	125482.700	3.0
1594.5192	18.00	-1.41	119212.930	3.0	125482.700	4.0
1594.5574	18.01	-1.35	199879.320	3.5	206148.940	3.5
1594.6044	28.00	-4.68	44475.158	2.0	50744.593	1.0
1594.7677	17.00	-4.54	94468.857	.5	100737.650	.5
1594.8387	18.00	-2.43	112138.980	2.0	118407.494	1.0
1594.8504	12.00	-2.41	53134.642	2.0	59403.110	1.0
1594.8932	13.01	-2.09	139916.700	1.0	146185.000	1.0
1594.8932	13.01	-1.61	139916.700	1.0	146185.000	2.0
1595.0713	15.00	-3.70	69924.700	2.5	76192.300	1.5
1595.1120	22.00	-.30	41995.390	6.0	48262.830	7.0
1595.2395	28.00	-2.63	44565.100	3.0	50832.039	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1595.3258	26.00	-4.76	54491.080	3.0	60757.680	4.0
1595.3513	28.01	-3.46	107142.210	1.5	113408.710	1.5
1595.4477	12.00	-1.82	53134.642	2.0	59400.763	2.0
1595.4477	12.00	-2.38	53134.642	2.0	59400.763	3.0
1595.4477	12.00	-.64	53134.642	2.0	59400.763	3.0
1595.4775	26.00	-2.35	46889.126	4.0	53155.130	4.0
1595.5779	24.00	-2.68	42292.960	1.0	48558.570	2.0
1595.6676	13.00	-1.40	38929.405	1.5	45194.663	2.5
1595.9633	14.00	-1.60	56690.903	2.0	62955.000	2.0
1595.9686	20.00	-4.64	42170.214	2.0	48434.290	2.0
1595.9686	20.00	-3.74	42170.214	2.0	48434.290	1.0
1595.9750	17.00	.25	84485.309	1.5	90749.360	2.5
1596.0064	14.00	.13	48264.292	3.0	54528.220	2.0
1596.0563	20.00	-3.74	42170.558	3.0	48434.290	2.0
1596.0563	20.00	-4.47	42170.558	3.0	48434.290	3.0
1596.0837	18.00	-2.68	114805.180	2.0	121068.804	1.0
1596.1008	14.00	-1.85	56690.903	2.0	62954.460	3.0
1596.1755	20.00	-3.41	42171.026	4.0	48434.290	3.0
1596.2606	27.00	-4.09	41101.800	.5	47364.730	1.5
1596.2734	27.00	-3.46	40827.770	1.5	47090.650	2.5
1596.2989	15.00	-.07	66544.120	2.5	72806.900	2.5
1596.3907	10.01	-2.28	302475.610	.5	308738.030	1.5
1596.4161	21.00	-3.68	32696.840	2.5	38959.160	3.5
1596.5844	27.00	-4.21	46002.830	2.5	52264.490	1.5
1596.8287	13.00	-1.25	38933.961	2.5	45194.663	3.5
1596.8287	13.00	-2.55	38933.961	2.5	45194.663	2.5
1596.8573	24.00	-4.06	27163.200	0.0	33423.790	1.0
1596.9619	25.00	-4.65	51445.650	1.5	57705.830	.5
1597.0111	28.00	-1.67	44206.185	3.0	50466.172	4.0
1597.0351	17.00	.04	84688.637	.5	90948.530	1.5
1597.0716	27.00	-2.66	48217.320	3.5	54477.070	3.5
1597.1914	18.01	-4.42	161048.640	1.5	167307.920	.5
1597.2218	7.00	-1.55	106477.800	.5	112736.961	1.5
1597.5299	26.00	-4.45	45281.816	2.0	51539.770	2.0
1597.5488	15.00	-.38	66360.120	1.5	72618.000	.5
1597.5973	17.00	-.92	94732.300	3.5	100989.990	3.5
1597.6203	27.00	-4.72	49025.420	1.5	55283.020	2.5
1597.6466	7.00	-3.93	104886.070	.5	111143.567	.5
1597.6764	10.01	-2.14	318183.690	4.5	324441.070	3.5
1597.7875	26.00	-2.87	44166.240	3.0	50423.185	4.0
1597.7914	10.01	-2.25	318184.260	3.5	324441.190	2.5
1597.8220	10.01	-3.68	318184.260	3.5	324441.070	3.5
1597.8246	10.01	-3.99	318184.270	4.5	324441.070	3.5
1597.8943	26.00	-4.22	48122.913	3.0	54379.440	3.0
1598.0038	10.00	-3.85	161590.346	4.0	167846.444	4.0
1598.0074	10.00	-4.66	161590.346	4.0	167846.430	3.0
1598.1055	17.01	-1.78	141350.000	3.0	147605.700	3.0
1598.1336	25.00	.43	41403.930	2.5	47659.520	2.5
1598.1743	14.00	-4.44	57328.789	1.0	63584.220	1.0
1598.2282	19.00	-2.21	27397.100	2.5	33652.320	2.5
1598.2282	19.00	-.90	27397.100	2.5	33652.320	3.5
1598.2563	23.02	-1.82	156130.000	4.5	162385.110	3.5
1598.3482	14.00	-1.09	56700.250	1.0	62955.000	2.0
1598.3945	10.00	-4.80	161592.120	3.0	167846.689	2.0
1598.3976	10.00	-3.97	161592.120	3.0	167846.677	3.0
1598.4571	10.00	-4.37	161592.120	3.0	167846.444	4.0
1598.4939	19.00	-1.06	27398.140	1.5	33652.320	2.5
1598.5535	17.00	-2.30	94973.683	.5	101227.630	.5
1598.5706	23.00	-3.03	30771.720	4.5	37025.600	3.5
1598.7086	18.01	.21	199879.320	3.5	206132.660	4.5
1598.7206	16.00	-1.30	74267.597	2.0	80520.890	1.0
1598.7211	14.00	-.75	57468.239	2.0	63721.530	2.0
1598.8452	26.00	-3.91	48122.913	3.0	54375.719	2.0
1598.9030	14.00	-.83	56733.380	0.0	62985.960	1.0
1598.9183	23.00	-3.03	32988.820	3.5	39241.340	2.5
1598.9209	18.00	-3.88	117563.020	0.0	123815.530	1.0
1598.9311	18.01	-1.09	203344.980	1.5	209597.450	1.5
1598.9485	18.00	-.91	108722.668	0.0	114975.070	1.0
1598.9490	26.01	-4.54	54904.500	3.5	61156.900	3.5
1598.9611	7.00	-2.89	105008.520	2.5	111260.873	3.5
1598.9879	26.00	-4.42	48238.832	2.0	54491.080	3.0
1598.9900	16.00	-1.53	74268.650	1.0	80520.890	1.0
1599.0181	27.00	-3.44	47091.140	.5	53343.270	1.5
1599.1091	12.00	-2.15	54706.536	1.0	60958.310	2.0
1599.1229	28.01	-3.83	114942.420	1.5	121194.140	2.5
1599.2380	26.00	-3.76	54555.450	4.0	60806.720	3.0
1599.3964	14.00	-2.57	57328.789	1.0	63579.440	0.0
1599.5146	16.00	-2.00	74270.701	0.0	80520.890	1.0
1599.6091	28.01	-3.22	113753.040	4.5	120002.860	3.5
1599.7202	26.00	-4.71	45964.944	2.0	52214.330	1.0
1599.7306	28.00	-2.74	49327.560	3.0	55576.905	3.0
1599.7332	26.00	-4.80	47755.485	3.0	54004.820	3.0
1599.7575	10.01	-4.23	318191.950	3.5	324441.190	2.5
1599.8036	28.01	-2.80	129396.040	5.5	135645.100	5.5
1599.8192	26.00	-3.28	44285.436	2.0	50534.435	3.0
1599.9880	28.01	-3.62	99340.550	3.5	105588.890	4.5
1600.1121	20.00	-1.19	42514.845	0.0	48762.700	1.0
1600.1237	27.00	-3.68	46454.950	1.5	52702.760	1.5
1600.1852	24.00	-4.29	27176.220	1.0	33423.790	1.0
1600.4329	17.00	-2.96	95612.357	1.5	101858.960	2.5
1600.4746	28.01	-3.55	128732.030	1.5	134978.470	2.5
1600.4900	6.00	-.09	77679.820	2.0	83926.200	3.0
1600.5461	14.00	-1.56	57468.239	2.0	63714.400	2.0
1600.5617	22.01	-2.52	24961.340	1.5	31207.440	2.5
1600.7001	22.00	-4.14	36065.750	3.0	42311.310	3.0
1600.8655	22.00	-3.68	29768.655	2.0	36013.570	2.0
1600.8803	14.00	-1.11	56690.903	2.0	62935.760	3.0
1600.9462	25.00	-4.37	45060.810	3.5	51305.410	2.5
1600.9744	28.01	-4.70	129396.040	5.5	135640.530	4.5
1601.0231	18.01	-4.36	173347.830	1.5	179592.130	2.5
1601.1021	20.00	-1.79	42518.708	1.0	48762.700	1.0
1601.1021	20.00	-4.25	42518.708	1.0	48762.700	2.0
1601.1514	13.01	-4.21	138536.400	3.0	144780.200	2.0
1601.2231	23.00	-3.20	33155.300	4.5	39398.820	3.5
1601.2334	18.01	-4.23	202429.840	3.5	208673.320	2.5
1601.2788	7.00	-2.25	105017.570	3.5	111260.873	3.5
1601.3078	16.01	-1.48	119242.130	1.5	125485.320	.5
1601.3822	28.00	-4.14	51343.800	2.0	57586.700	2.0
1601.4689	28.00	-1.79	42790.027	2.0	49032.589	2.0
1601.4694	24.00	.06	37883.340	2.0	44125.900	1.0
1601.4720	28.01	-4.46	114869.350	1.5	121111.900	.5
1601.5917	14.00	-2.70	54245.020	0.0	60487.103	1.0
1601.6582	26.00	-2.32	45595.046	0.0	51836.870	1.0
1601.6723	28.00	-1.91	44475.158	2.0	50716.927	1.0
1601.8581	26.00	-3.09	45220.662	3.0	51461.707	4.0
1601.8620	18.01	-1.63	199879.320	3.5	206120.350	2.5
1601.9518	23.02	-2.04	155682.600	3.5	161923.280	2.5
1601.9518	25.00	-3.59	57305.620	3.5	63546.300	3.5
1601.9595	28.01	-4.03	115000.250	3.5	121240.900	3.5
1602.1007	30.02	.15	293768.600	1.0	300008.700	1.0
1602.1007	15.01	-1.96	125391.900	4.0	131632.000	3.0
1602.1418	6.00	-1.63	77679.820	2.0	83919.760	2.0
1602.1603	26.00	-4.70	45220.662	3.0	51460.530	3.0
1602.1701	6.00	-.14	77679.820	2.0	83919.650	3.0
1602.2112	7.00	-2.58	110385.330	2.5	116625.000	1.5
1602.2112	7.00	-3.15	110385.330	2.5	116625.000	2.5
1602.2112	7.00	-4.50	110385.330	3.5	116625.000	2.5
1602.2733	10.00	-2.23	161607.261	2.0	167846.689	2.0
1602.2764	10.00	-4.25	161607.261	2.0	167846.677	3.0
1602.3113	23.00	-3.39	15724.220	3.5	21963.500	3.5
1602.3397	10.00	-1.08	161607.261	2.0	167846.430	3.0
1602.4407	14.00	-1.68	54257.582	3.0	60496.358	2.0
1602.4690	17.00	-4.93	95706.534	1.5	101945.200	.5
1602.4690	17.00	-3.35	95706.534	1.5	101945.200	1.5
1602.4962	17.00	-.31	85442.430	1.5	91680.990	1.5
1602.5399	28.01	-3.94	129367.910	6.5	135606.300	6.5
1602.6195	22.00	-.82	41995.390	6.0	48233.470	6.0
1602.6537	26.00	-4.81	44760.739	1.0	50998.686	2.0
1602.8636	22.00	-1.19	41780.950	4.0	48018.080	4.0
1602.9227	28.01	-3.32	112686.300	2.5	118923.200	3.5
1603.1104	23.00	-2.28	17116.920	3.5	23353.090	3.5
1603.1260	20.00	-1.48	42526.591	2.0	48762.700	2.0
1603.1260	20.00	-.56	42526.591	2.0	48762.700	3.0
1603.1260	20.00	-2.48	42526.591	2.0	48762.700	1.0
1603.2340	26.00	-4.57	47831.132	2.0	54066.821	2.0
1603.3248	28.00	-.46	50039.180	2.0	56274.516	2.0
1603.3469	24.00	-4.78	42589.250	5.0	48824.500	4.0
1603.5171	26.00	-3.62	47606.092	5.0	53840.680	6.0
1603.6262	17.00	-4.21	88080.042	2.5	94314.206	1.5
1603.6787	9.00	-2.45	130221.120	1.5	136455.080	1.5
1603.8117	17.00	-.87	85917.937	.5	92151.380	.5
1603.8528	17.00	-1.15	95612.357	1.5	101845.640	1.5
1604.0003	27.00	-3.13	41968.890	2.5	48201.600	3.5
1604.0387	26.00	-4.95	47834.260	3.0	54066.821	2.0
1604.0464	26.00	.37	47377.909	4.0	53610.440	4.0
1604.0878	28.01	-3.64	129396.040	5.5	135628.410	4.5
1604.0909	18.00	-4.06	118459.662	1.0	124692.020	2.0
1604.1985	7.00	-4.40	110349.060	2.5	116581.000	1.5
1604.1985	7.00	-4.59	110349.060	2.5	116581.000	2.5
1604.2191	7.00	-3.46	110349.140	3.5	116581.000	2.5
1604.2726	26.00	-4.03	44243.668	5.0	50475.320	4.0
1604.3887	26.00	-3.99	47929.981	4.0	54161.182	3.0
1604.4379	28.01	-3.30	100389.520	2.5	106620.530	3.5
1604.4714	22.00	-3.68	35757.510	4.0	41988.390	3.0
1604.4972	18.01	-3.02	200393.020	4.5	206623.800	3.5
1604.5718	27.00	-3.29	46685.430	1.5	52915.920	.5
1604.6027	9.00	-1.56	130221.120	1.5	136451.490	2.5
1604.6844	22.00	-3.81	20795.599	5.0	27025.652	4.0
1604.8989	10.01	-3.00	301948.000	1.5	308177.220	1.5
1604.9734	7.00	-4.72	104984.340	.5	111213.271	1.5
1604.9891	15.00	-.46	66343.330	.5	72572.200	1.5
1605.1201	14.00	-1.23	57541.918	1.0	63770.280	1.0
1605.1386	27.00	-4.81	48217.320	3.5	54445.610	2.5
1605.1850	22.00	-2.40	34327.960	1.0	40556.070	1.0
1605.1953	18.01	-.22	202253.590	1.5	208481.660	.5
1605.2314	18.01	-3.28	202467.140	1.5	208695.070	1.5
1605.3422	22.00	-4.81	40302.950	3.0	46530.450	4.0
1605.3629	27.00	-3.45	39649.160	3.5	45876.580	2.5
1605.3956	20.00	-3.13	42343.587	3.0	48570.880	2.0
1605.5655	14.00	-1.71	56978.256	1.0	63204.890	2.0
1605.7728	18.00	-3.34	119566.110	3.0	125791.940	2.0
1605.8090	17.00	-2.18	94827.150	2.5	101052.840	2.5
1605.8528	28.01	-2.26	129419.580	4.5	135645.100	5.5
1605.8735	7.01	-.68	220495.360	2.0	226720.800	2.0
1605.8838	15.01	-.31	123345.000	0.0	129570.400	1.0
1606.0008	14.00	-.44	48020.074	1.0	54245.020	0.0
1606.0101	17.00	-.15	92194.190	1.5	98419.100	2.5
1606.1624	22.00	-1.02	41895.150	5.0	48119.470	5.0
1606.2450	15.02	-1.10	172429.200	2.5	178653.200	2.5
1606.2450	15.02	.21	172429.200	2.5	178653.200	3.5
1606.2450	15.02	.05	172429.200	1.5	178653.200	2.5
1606.2656	28.01	-3.41	127219.970	3.5	133443.890	2.5
1606.3121	28.00	-1.92	50039.180	2.0	56262.920	3.0
1606.3483	15.01	-2.19	125129.700	3.0	131353.300	2.0
1606.3947	25.00	-2.77	57621.900	1.5	63845.320	1.5
1606.5418	7.00	-2.59	110402.150	3.5	116625.000	2.5
1606.5496	26.01	-4.75	54870.620	2.5	61093.440	2.5
1606.5625	24.00	-3.83	42438.820	2.0	48661.590	3.0
1606.5715	22.00	-2.78	29986.185	3.0	36208.920	4.0
1606.7123	17.00	-1.53	85917.937	.5	92140.127	1.5
1606.7638	9.00	-.83	129381.860	2.5	135603.850	2.5
1606.7923	23.01	-3.34	30267.460	2.0	36489.340	1.0
1606.8646	18.00	-4.26	117151.387	1.0	123372.987	2.0
1606.9033	22.00	-3.96	38159.710	3.0	44381.160	4.0
1607.0015	28.01	-2.68	129424.030	5.5	135645.100	5.5
1607.0325	28.01	-3.23	129419.580	4.5	135640.530	4.5
1607.1410	7.00	-3.76	110404.470	1.5	116625.000	1.5
1607.1539	7.00	-2.60	110404.520	2.5	116625.000	1.5
1607.1539	7.00	-3.09	110404.520	2.5	116625.000	2.5
1607.2053	26.00	-2.80	44760.739	1.0	50981.020	0.0
1607.2164	14.00	-3.81	57798.072	2.0	64018.310	1.0
1607.2914	22.00	-3.68	29912.262	3.0	36132.210	4.0
1607.3322	24.00	-3.90	29420.900	1.0	35640.690	0.0
1607.3555	25.00	-3.92	56567.930	1.5	62787.630	1.5
1607.4356	28.01	-3.51	114942.420	1.5	121161.810	1.5
1607.5571	22.00	-3.30	35652.950	3.0	41871.870	2.0
1607.6372	18.01	-4.02	161089.310	.5	167307.920	.5
1607.7339	17.00	-1.89	94827.150	2.5	101045.386	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1607.7432	25.00	-3.05	57305.620	3.5	63523.820	2.5
1607.7562	17.00	-.82	85442.430	1.5	91660.580	2.5
1607.7970	26.00	-4.81	22838.320	2.0	29056.312	3.0
1607.8621	23.00	-2.75	31786.190	.5	38003.930	1.5
1608.0657	28.00	-4.24	42954.234	2.0	49171.187	1.0
1608.0924	18.00	-3.87	114975.070	1.0	121191.920	2.0
1608.1829	28.01	-4.59	129424.030	5.5	135640.530	4.5
1608.2294	26.02	-.87	184181.390	1.0	190397.710	2.0
1608.2887	26.00	-2.72	44664.061	2.0	50880.152	1.0
1608.4416	13.01	-1.06	142607.000	2.0	148822.500	3.0
1608.6745	24.00	-2.76	42292.960	1.0	48507.560	1.0
1608.6983	7.00	-4.45	104984.340	.5	111198.848	.5
1608.7496	27.00	-3.42	47128.960	2.5	53343.270	1.5
1608.7885	7.00	-1.91	106477.800	.5	112691.960	.5
1608.8221	28.01	-1.66	114836.630	3.5	121050.660	2.5
1608.8221	14.00	-4.12	50566.397	1.0	56780.427	1.0
1608.8965	18.00	-2.19	118651.447	1.0	124865.190	2.0
1608.8998	9.00	-3.84	130221.120	1.5	136434.850	2.5
1608.9257	22.00	-1.44	34170.950	0.0	40384.580	1.0
1608.9308	24.00	-3.34	44050.870	4.0	50264.480	3.0
1608.9826	28.01	-3.98	129988.050	2.5	136201.460	3.5
1608.9930	22.00	-.50	41780.950	4.0	47994.320	5.0
1609.0293	24.00	-4.05	48458.670	2.0	54671.900	1.0
1609.0551	9.00	-2.78	130374.860	1.5	136587.990	1.5
1609.0686	26.00	-4.43	33412.706	3.0	39625.784	4.0
1609.2468	21.00	-3.89	32659.210	1.5	38871.600	2.5
1609.3271	15.00	-.96	66360.120	1.5	72572.200	1.5
1609.3530	18.01	-3.72	189654.780	2.5	195866.760	1.5
1609.3789	26.02	-.57	184181.390	1.0	190393.270	1.0
1609.4308	22.00	-.40	41895.150	5.0	48106.830	6.0
1609.4411	28.01	-3.16	112686.300	2.5	118897.940	2.5
1609.4787	14.00	-.11	48102.323	2.0	54313.818	1.0
1609.5292	23.00	-2.84	30864.340	5.5	37075.640	4.5
1609.7371	26.00	-3.88	48238.832	2.0	54449.330	1.0
1609.7645	12.00	-2.33	54676.438	3.0	60886.830	2.0
1609.7645	12.00	-3.24	54676.438	3.0	60886.830	3.0
1609.7988	28.01	-2.13	129396.040	5.5	135606.300	6.5
1609.8091	18.01	-1.40	183985.940	1.5	190196.160	.5
1609.8247	28.01	-4.80	129396.040	5.5	135606.200	5.5
1609.8350	12.00	-3.17	54676.710	2.0	60886.830	2.0
1609.8350	12.00	-2.27	54676.710	2.0	60886.830	1.0
1609.8350	12.00	-2.97	54676.710	3.0	60886.830	2.0
1609.8350	12.00	-4.55	54676.710	2.0	60886.830	3.0
1609.8350	12.00	-3.38	54676.710	3.0	60886.830	3.0
1609.8350	12.00	-1.94	54676.710	4.0	60886.830	3.0
1609.8475	10.00	-1.50	161636.617	1.0	167846.689	2.0
1609.8662	17.01	-1.84	140259.000	2.0	146469.000	3.0
1609.9025	18.01	-3.52	189654.780	2.5	195864.640	2.5
1609.9128	28.01	-3.51	129419.580	4.5	135629.400	3.5
1609.9180	28.01	-4.40	115108.090	2.5	121317.890	3.5
1609.9180	15.01	.19	123456.300	1.0	129666.100	2.0
1609.9725	9.00	-3.39	130374.860	1.5	136584.450	2.5
1610.0139	27.00	-3.30	46562.870	1.5	52772.300	2.5
1610.1695	28.01	-2.55	129419.580	4.5	135628.410	4.5
1610.2624	14.00	-1.44	57541.918	1.0	63750.390	1.0
1610.4190	12.00	-2.72	53134.642	2.0	59342.510	1.0
1610.4190	12.00	-3.19	53134.642	2.0	59342.510	2.0
1610.4429	7.00	-2.97	104996.240	1.5	111204.016	2.5
1610.4756	26.00	-4.78	48475.740	3.0	54683.390	4.0
1610.4834	21.00	-3.46	32751.540	3.5	38959.160	3.5
1610.5015	18.01	-2.14	203918.150	1.5	210125.700	2.5
1610.5742	28.01	-4.89	112719.750	3.5	118927.020	4.5
1610.6095	18.00	-4.03	114861.670	0.0	121068.804	1.0
1610.8570	18.01	.40	202467.140	1.5	208673.320	2.5
1610.9108	18.00	-1.29	118651.447	1.0	124857.420	2.0
1610.9349	23.02	-3.72	156130.000	4.5	162335.880	3.5
1610.9497	18.00	-1.31	118651.447	1.0	124857.270	1.0
1610.9869	9.00	-1.76	130221.120	1.5	136426.800	1.5
1611.0258	20.01	-.58	80521.530	1.5	86727.060	2.5
1611.1296	25.00	-4.83	51100.490	4.5	57305.620	3.5
1611.2086	28.00	-3.10	42954.234	2.0	49159.060	2.0
1611.2776	28.01	-2.94	114942.420	1.5	121146.980	2.5
1611.2831	26.00	-4.86	33765.291	2.0	39969.830	3.0
1611.3244	28.01	-3.87	129424.030	5.5	135628.410	4.5
1611.3244	28.01	-2.22	100078.780	1.5	106283.160	2.5
1611.4049	6.00	-1.49	78731.270	1.0	84935.340	1.0
1611.5327	26.00	-4.10	54161.182	3.0	60364.760	3.0
1611.5660	26.01	-4.73	93484.750	4.5	99688.200	3.5
1611.6777	28.01	-3.33	129419.580	4.5	135622.600	3.5
1611.7385	26.00	-3.48	45551.748	1.0	51754.534	1.0
1611.7848	7.00	-4.50	104996.240	1.5	111198.848	.5
1611.8281	28.00	-1.93	44475.158	2.0	50677.599	3.0
1611.8388	24.00	-2.88	44050.870	4.0	50253.270	5.0
1611.9947	17.02	-3.93	198835.500	.5	205037.300	1.5
1612.1494	7.00	-4.04	104859.700	1.5	111060.905	.5
1612.2079	23.02	-2.88	154480.500	4.5	160681.480	3.5
1612.2287	20.01	-.42	80526.160	2.5	86727.060	3.5
1612.2287	20.01	-1.72	80526.160	2.5	86727.060	2.5
1612.2494	17.00	-.87	91538.500	1.5	97739.320	1.5
1612.2611	18.00	-1.44	105617.315	2.0	111818.090	1.0
1612.2703	24.00	-3.64	27223.050	2.0	33423.790	1.0
1612.2806	18.01	-4.29	148842.370	2.5	155043.070	2.5
1612.3041	27.00	-2.19	46502.150	.5	52702.760	1.5
1612.3041	9.00	-1.95	129484.660	1.5	135685.270	1.5
1612.3223	17.00	-1.63	91538.500	1.5	97739.040	.5
1612.3353	26.01	-3.89	93487.710	3.5	99688.200	3.5
1612.3899	22.00	-1.51	41985.830	3.0	48186.110	4.0
1612.4419	27.00	-3.89	46260.020	1.5	52460.100	2.5
1612.5530	14.00	-2.06	57583.657	4.0	63783.310	4.0
1612.6552	26.00	-4.62	54555.450	4.0	60754.710	4.0
1612.7384	9.00	-2.20	130221.120	1.5	136420.060	.5
1612.7566	17.00	-1.70	94973.683	.5	101172.553	1.5
1612.7749	13.01	-2.24	142601.600	3.0	148800.400	3.0
1612.7749	13.01	-.73	142601.600	3.0	148800.400	4.0
1612.7749	13.01	-2.56	142601.600	3.0	148800.400	4.0
1612.7879	18.01	-1.74	173393.380	2.5	179592.130	2.5
1612.9016	14.00	-1.45	57583.657	4.0	63781.970	5.0
1613.0117	28.01	-2.25	115120.000	2.5	121317.890	3.5
1613.0379	26.00	-4.54	44664.061	2.0	50861.850	3.0
1613.0845	24.00	-3.55	29420.900	1.0	35618.510	1.0
1613.1132	27.00	-3.03	48317.170	3.5	54514.670	3.5
1613.1184	15.00	-3.44	66544.120	2.5	72741.600	1.5
1613.3396	24.00	-4.81	43124.880	2.0	49321.510	2.0
1613.4516	15.00	-3.03	75104.600	.5	81300.800	1.5
1613.4680	17.00	-4.36	88272.720	.5	94468.857	.5
1613.4829	22.00	-.90	31628.668	5.0	37824.748	4.0
1613.5000	14.00	-2.92	54185.264	1.0	60381.278	1.0
1613.5662	24.00	-4.92	44068.720	3.0	50264.480	3.0
1613.5896	7.00	-3.13	110385.330	2.5	116581.000	1.5
1613.5896	7.00	-2.50	110385.330	2.5	116581.000	2.5
1613.5896	7.00	-3.01	110385.330	3.5	116581.000	2.5
1613.6162	28.00	-1.20	44262.619	2.0	50458.187	1.0
1613.6350	7.00	-2.62	105008.520	2.5	111204.016	2.5
1613.6599	21.00	-2.50	33707.250	2.5	39902.650	3.5
1613.6824	20.00	-.53	36547.688	0.0	42743.002	1.0
1613.6938	24.00	-2.55	42292.960	1.0	48488.230	0.0
1613.8084	26.00	-3.16	51619.140	3.0	57813.970	3.0
1613.8709	28.01	-3.57	112719.750	3.5	118914.340	4.5
1613.8709	22.00	-4.57	41087.310	3.0	47281.900	3.0
1613.9752	18.01	-3.49	208803.240	5.5	214997.430	4.5
1614.0325	22.00	-2.90	40844.190	3.0	47038.160	3.0
1614.1393	9.00	-3.30	129772.830	2.5	135966.390	1.5
1614.1393	18.01	-3.58	208803.240	4.5	214996.800	3.5
1614.1810	25.00	-3.06	56567.930	1.5	62761.330	2.5
1614.2462	18.01	-4.70	209248.550	2.5	215441.700	3.5
1614.3179	26.00	-4.74	40534.180	3.0	46727.055	2.0
1614.3901	14.00	-3.41	57798.072	2.0	63990.670	2.0
1614.5199	13.01	-1.92	139916.700	1.0	146108.800	1.0
1614.6321	18.01	-2.93	183914.560	.5	190106.230	1.5
1614.6451	28.01	-3.70	114970.190	.5	121161.810	1.5
1614.7847	17.00	-.61	95612.357	1.5	101803.442	2.5
1614.7941	14.00	-1.44	57295.881	0.0	63486.930	1.0
1614.8016	26.01	-4.43	54902.420	1.5	61093.440	2.5
1614.8511	27.00	-3.30	45971.190	3.5	52162.020	3.5
1614.8616	28.01	-3.44	112686.300	2.5	118877.090	1.5
1614.9424	18.01	-4.59	209251.460	3.5	215441.940	4.5
1614.9510	17.00	-4.84	95534.923	.5	101725.370	1.5
1614.9594	22.00	-4.62	29768.655	2.0	35959.070	1.0
1615.0442	28.01	-4.69	115000.250	3.5	121190.340	4.5
1615.0763	20.00	-.18	36554.749	1.0	42744.716	2.0
1615.1635	14.00	-3.40	57583.657	4.0	63773.290	3.0
1615.2417	18.00	-4.34	117183.654	2.0	123372.987	2.0
1615.2451	18.01	-.62	199959.620	2.5	206148.940	3.5
1615.2707	28.00	-2.03	36600.805	2.0	42790.027	2.0
1615.2772	22.00	-3.08	29907.273	2.0	36096.470	3.0
1615.3190	28.00	-3.61	44565.100	3.0	50754.137	2.0
1615.3443	26.01	-3.63	54904.500	3.5	61093.440	2.5
1615.3573	10.01	-1.60	301948.000	1.5	308136.890	1.5
1615.4161	17.00	-4.21	94314.206	1.5	100502.871	1.5
1615.5237	20.00	-.66	36554.749	1.0	42743.002	1.0
1615.5333	26.00	-4.00	45551.748	1.0	51739.964	2.0
1615.5863	26.00	-.38	48036.667	2.0	54224.680	1.0
1615.6941	30.02	-1.46	296720.900	3.0	302908.500	4.0
1615.7364	20.00	-.16	36731.615	1.0	42919.053	2.0
1615.7479	14.00	-1.82	57017.496	2.0	63204.890	2.0
1615.8163	26.00	-2.92	53739.488	5.0	59926.620	5.0
1615.8587	9.00	-3.02	129937.330	1.5	136124.300	.5
1615.8748	26.00	-3.65	46982.302	6.0	53169.210	6.0
1615.8845	26.00	-4.18	44511.795	2.0	50698.666	2.0
1615.9438	26.00	-4.37	40534.180	3.0	46720.824	4.0
1615.9500	28.01	-3.11	129419.580	4.5	135606.200	5.5
1615.9926	26.00	-4.44	48304.623	2.0	54491.080	3.0
1615.9955	7.00	-4.24	105017.570	3.5	111204.016	2.5
1616.1643	8.02	-1.66	373046.200	0.0	379232.000	1.0
1616.3001	20.00	-4.87	37748.197	1.0	43933.477	1.0
1616.3027	27.00	-2.89	45971.190	3.5	52156.460	4.5
1616.3654	17.00	-1.98	84988.480	1.5	91173.510	1.5
1616.3691	14.00	-1.26	48020.074	1.0	54205.090	2.0
1616.3699	12.00	-2.02	54250.086	1.0	60435.099	2.0
1616.4413	27.00	-2.70	46671.940	2.5	52856.680	3.5
1616.4517	15.00	-2.87	75705.400	3.5	81890.100	2.5
1616.4998	22.00	-3.71	36000.144	4.0	42184.660	4.0
1616.5803	22.00	-4.03	29912.262	3.0	36096.470	3.0
1616.5806	28.00	-2.13	50789.500	4.0	56973.707	5.0
1616.6608	26.00	-4.22	51630.070	2.0	57813.970	3.0
1616.8227	22.00	-4.13	40466.979	2.0	46650.260	3.0
1616.8438	13.01	-1.37	140091.200	1.0	146274.400	2.0
1616.8653	7.00	-5.00	105143.680	2.5	111326.798	2.5
1616.8857	7.01	-.77	220495.360	2.0	226678.400	2.0
1617.0165	14.00	-2.07	54313.818	1.0	60496.358	2.0
1617.0504	24.00	-3.81	48636.140	3.0	54818.550	2.0
1617.0601	12.00	-2.50	54252.726	2.0	60435.099	2.0
1617.0871	28.01	-1.85	129424.030	5.5	135606.300	6.5
1617.1132	28.01	-4.51	129424.030	5.5	135606.200	5.5
1617.2011	22.00	-1.81	29818.310	3.0	36000.144	4.0
1617.2597	20.00	-.28	37751.867	2.0	43933.477	1.0
1617.4669	7.00	-3.30	104984.340	.5	111165.158	1.5
1617.4978	15.01	-3.08	132372.600	1.0	138553.300	2.0
1617.5161	7.01	-.38	220495.360	2.0	226675.990	3.0
1617.5345	25.00	-4.06	51305.410	2.5	57485.970	2.5
1617.5680	18.00	-3.74	118469.117	2.0	124649.549	3.0
1617.6041	12.00	-3.37	54706.536	1.0	60886.830	2.0
1617.7648	28.01	-3.93	130147.870	.5	136327.550	1.5
1617.7826	14.00	-1.01	57541.918	1.0	63721.530	2.0
1617.8075	26.00	-3.48	44243.668	5.0	50423.185	4.0
1617.8722	28.01	-1.14	98467.250	3.5	104646.520	3.5
1617.8740	14.00	-3.08	57583.657	4.0	63762.920	4.0
1617.8800	17.00	-.45	92194.190	1.5	98373.430	2.5
1617.9167	22.00	-3.35	36132.210	4.0	42311.310	3.0
1617.9559	26.00	-4.25	47590.070	4.0	53769.020	4.0
1617.9821	7.00	-3.81	110402.150	3.5	116581.000	2.5
1617.9945	18.00	-1.16	107289.747	2.0	113468.550	2.0
1618.0005	17.00	-1.48	92194.190	1.5	98372.970	1.5
1618.0177	26.00	-4.21	45281.816	2.0	51460.530	3.0
1618.0626	14.00	-2.90	57583.657	4.0	63762.200	3.0
1618.1163	14.00	-1.31	54528.220	2.0	60706.558	1.0
1618.2081	14.00	-3.83	50602.440	0.0	56780.427	1.0
1618.3645	22.01	-2.22	63444.760	3.5	69622.150	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1618.3829	27.00	-3.36	27497.060	2.5	33674.380	2.5
1618.4117	24.00	-3.57	49027.580	2.0	55204.790	3.0
1618.4405	13.01	-2.17	133914.100	2.0	140091.200	1.0
1618.4458	24.00	-3.62	35398.020	4.0	41575.100	3.0
1618.5453	23.00	-3.55	15664.750	1.5	21841.450	2.5
1618.5898	7.00	-3.34	110404.470	1.5	116581.000	.5
1618.5898	7.00	-3.65	110404.470	1.5	116581.000	1.5
1618.5898	7.00	-3.76	110404.470	1.5	116581.000	2.5
1618.6030	9.00	-3.04	129937.330	1.5	136113.810	1.5
1618.6030	7.00	-3.21	110404.520	2.5	116581.000	2.5
1618.6475	14.00	-.75	54528.220	2.0	60704.530	3.0
1618.6632	25.00	-3.41	51445.650	1.5	57621.900	1.5
1618.6659	24.00	-2.68	42648.260	3.0	48824.500	4.0
1618.6795	14.00	-2.63	54205.090	2.0	60381.278	1.0
1618.7864	28.01	-2.58	114874.880	2.5	121050.660	2.5
1618.7970	18.01	-2.69	208803.240	4.5	214978.980	4.5
1618.7970	18.01	-4.42	208803.240	5.5	214978.980	4.5
1618.8284	18.01	-.87	208803.240	4.5	214978.860	5.5
1618.8284	18.01	-2.69	208803.240	5.5	214978.860	5.5
1618.8389	16.01	-2.91	158826.870	2.5	165002.450	1.5
1618.9196	26.00	-3.43	47106.463	4.0	53281.735	5.0
1618.9280	28.01	-3.37	128803.230	2.5	134978.470	2.5
1618.9857	17.00	-.59	91564.300	.5	97739.320	1.5
1619.0342	7.00	-4.39	104886.070	.5	111060.905	.5
1619.0538	21.00	-3.71	32696.840	2.5	38871.600	2.5
1619.0591	17.00	-2.39	91564.300	.5	97739.040	.5
1619.2715	20.01	-.38	81498.000	.5	87671.930	1.5
1619.2820	7.01	-.11	196540.230	0.0	202714.120	1.0
1619.3761	14.00	-1.25	57468.239	2.0	63641.770	3.0
1619.4407	14.00	-2.14	54313.818	1.0	60487.103	1.0
1619.4656	7.01	.24	196592.070	1.0	202765.260	2.0
1619.5155	23.00	-6.25	14514.750	1.5	20687.750	1.5
1619.6513	14.00	-.60	57541.918	1.0	63714.400	2.0
1619.7075	20.00	.10	36575.119	2.0	42747.387	3.0
1619.7374	26.00	-2.70	46889.126	4.0	53061.280	5.0
1619.7516	9.00	-2.44	129937.330	1.5	136109.430	.5
1619.7618	12.00	-2.80	54248.809	0.0	60420.870	1.0
1619.8569	17.00	-.77	85735.091	1.5	91906.790	2.5
1619.9330	26.00	-.24	43633.491	2.0	49804.900	3.0
1620.0115	23.00	-1.55	17181.980	4.5	23353.090	3.5
1620.0970	12.00	-2.32	54250.086	1.0	60420.870	1.0
1620.1779	22.00	-1.03	31489.451	4.0	37659.927	3.0
1620.3793	22.00	-4.51	30039.211	5.0	36208.920	4.0
1620.3817	15.01	-.60	123456.300	1.0	129626.000	1.0
1620.4087	20.00	-.65	36575.119	2.0	42744.716	2.0
1620.5871	7.00	-3.10	104996.240	1.5	111165.158	1.5
1620.6102	10.01	-4.05	276511.820	.5	282680.650	.5
1620.6181	15.00	-3.66	69852.800	.5	76021.600	1.5
1620.6444	15.00	-.97	75353.400	1.5	81522.100	2.5
1620.7431	7.00	-2.95	106758.731	.5	112927.055	1.5
1620.7665	18.00	-2.42	118906.665	2.0	125074.900	2.0
1620.7904	12.00	-2.10	54252.726	2.0	60420.870	1.0
1620.8590	20.00	-1.82	36575.119	2.0	42743.002	1.0
1620.9098	28.01	-1.44	114874.880	2.5	121042.570	1.5
1620.9203	18.01	-2.40	204417.230	1.5	210584.880	1.5
1620.9229	28.01	-4.63	114874.880	2.5	121042.620	1.5
1620.9671	7.00	-2.29	106778.337	1.5	112945.809	2.5
1621.2538	14.00	-2.85	56503.346	2.0	62669.727	2.0
1621.2857	28.01	-3.84	129474.270	3.5	135640.530	4.5
1621.3435	23.00	-4.69	37752.540	2.5	43918.580	2.5
1621.3711	18.00	-3.42	118906.665	2.0	125072.600	1.0
1621.4019	14.00	-1.32	56503.346	2.0	62669.164	3.0
1621.4082	7.00	-4.90	105119.850	1.5	111285.644	1.5
1621.4487	26.01	-4.24	58666.360	3.5	64832.000	4.5
1621.5010	17.00	-4.09	91538.500	1.5	97703.941	2.5
1621.5328	27.00	-3.64	45904.680	1.5	52070.000	2.5
1621.5539	7.00	-4.36	110459.760	1.5	116625.000	1.5
1621.5670	14.00	-.99	48020.074	1.0	54185.264	1.0
1621.5802	17.00	-2.22	91538.500	1.5	97703.640	1.5
1621.6065	55.00	-2.86	22588.890	0.0	28755.614	0.0
1621.6162	22.00	-1.17	31373.801	3.0	37538.804	2.0
1621.6823	20.00	-2.54	41679.008	1.0	47843.760	0.0
1621.7546	14.00	-1.79	56503.346	2.0	62667.823	3.0
1622.0196	22.00	-4.68	41943.950	1.0	48107.420	2.0
1622.1622	26.00	-4.65	47606.092	5.0	53769.020	4.0
1622.1853	17.00	-2.47	94827.150	2.5	100989.990	3.5
1622.3223	28.01	-3.25	130570.420	.5	136732.740	1.5
1622.3723	14.02	.15	234387.640	1.0	240549.770	2.0
1622.3868	20.00	-1.23	42514.845	0.0	48676.920	1.0
1622.4118	24.00	-3.48	27176.220	1.0	33338.200	0.0
1622.4779	22.00	-2.61	30039.211	5.0	36200.940	5.0
1622.6351	22.00	-2.89	29971.078	4.0	36132.210	4.0
1622.7070	26.00	-3.72	47008.351	5.0	53169.210	6.0
1622.7410	18.01	-2.25	199959.620	2.5	206120.350	2.5
1622.8569	28.01	-2.08	113753.040	4.5	119913.330	4.5
1622.9333	24.00	-2.92	44050.870	4.0	50210.870	4.0
1622.9596	27.00	-4.83	48317.170	3.5	54477.070	3.5
1622.9622	10.01	-1.10	302816.980	1.5	308976.870	.5
1623.0387	21.00	-3.05	14926.240	2.5	21085.840	3.5
1623.0914	15.00	-2.47	74301.700	2.5	80461.100	3.5
1623.1370	7.00	-3.51	104984.340	.5	111143.567	.5
1623.1467	27.00	-4.40	46002.830	2.5	52162.020	3.5
1623.1731	22.01	-2.38	63168.230	2.5	69327.320	1.5
1623.3286	28.01	-1.82	99340.550	3.5	105499.050	3.5
1623.3346	22.00	-4.14	29907.273	2.0	36065.750	3.0
1623.3755	22.00	-3.34	29855.248	1.0	36013.570	2.0
1623.4045	20.00	-1.83	42518.708	1.0	48676.920	1.0
1623.4045	20.00	-4.31	42518.708	1.0	48676.920	2.0
1623.4232	14.00	-2.67	57328.789	1.0	63486.930	1.0
1623.5645	26.00	-1.55	47755.485	3.0	53913.090	2.0
1623.5658	26.00	-4.37	53769.020	4.0	59926.620	5.0
1623.5983	26.00	-4.26	47590.070	4.0	53747.547	3.0
1623.6845	26.02	-.97	184247.160	2.0	190404.310	3.0
1623.7979	20.01	-.12	81517.000	1.5	87673.720	2.5
1623.8195	7.00	-4.12	105008.520	2.5	111165.158	1.5
1623.8928	28.01	-3.80	129474.270	3.5	135630.630	2.5
1623.9245	28.01	-1.97	128822.230	1.5	134978.470	2.5
1624.0300	22.00	-1.87	41780.950	4.0	47936.790	3.0
1624.0363	5.00	.27	48611.817	.5	54767.633	1.5
1624.0617	28.01	-4.70	133853.040	4.5	140008.760	3.5
1624.0696	23.00	-2.45	17054.870	2.5	23210.560	2.5
1624.0933	15.01	-3.70	132397.700	2.0	138553.300	2.0
1624.1833	14.00	-1.20	48102.323	2.0	54257.582	3.0
1624.2173	28.01	-3.27	129474.270	3.5	135629.400	3.5
1624.2701	20.01	-1.08	81517.000	1.5	87671.930	1.5
1624.2754	28.01	-4.61	130570.420	.5	136725.330	.5
1624.2754	9.00	-2.25	129937.330	1.5	136092.240	2.5
1624.4100	15.00	-4.20	74271.800	1.5	80426.200	1.5
1624.4206	28.01	-3.19	112719.750	3.5	118874.110	3.5
1624.4617	5.00	.53	48613.600	1.5	54767.804	2.5
1624.4786	28.01	-2.50	129474.270	3.5	135628.410	4.5
1624.5069	5.00	-.43	48613.600	1.5	54767.633	1.5
1624.5446	23.00	-2.73	31786.190	.5	37940.080	.5
1624.5948	13.01	.64	133435.000	2.0	139588.700	3.0
1624.6423	28.01	-4.05	130174.030	1.5	136327.550	1.5
1624.6978	22.00	-1.39	41906.510	2.0	48059.820	3.0
1624.6993	26.00	-3.86	45551.748	1.0	51705.052	2.0
1624.7439	18.00	-4.83	118906.665	2.0	125059.800	2.0
1624.7453	28.01	-3.26	133853.040	4.5	140006.170	4.5
1624.7664	25.00	-3.44	51552.780	.5	57705.830	.5
1624.7954	7.00	-3.09	110349.060	2.5	116502.000	1.5
1624.8720	23.00	-3.67	15688.800	2.5	21841.450	2.5
1624.9090	9.00	-2.38	129937.330	1.5	136089.840	1.5
1624.9312	17.00	-2.21	95706.534	1.5	101858.960	2.5
1624.9819	14.00	-2.00	56978.256	1.0	63130.490	1.0
1625.0331	24.00	-3.68	29420.900	1.0	35572.940	2.0
1625.0511	12.00	-3.35	54676.438	3.0	60828.410	2.0
1625.1108	7.00	-4.52	105119.850	1.5	111271.596	.5
1625.1229	12.00	-2.54	54676.710	3.0	60828.410	2.0
1625.1229	12.00	-3.49	54676.710	2.0	60828.410	2.0
1625.2234	28.01	-3.69	128827.150	3.5	134978.470	2.5
1625.2366	27.00	-2.58	48753.720	1.5	54904.990	2.5
1625.2572	28.00	-1.48	44314.980	4.0	50466.172	4.0
1625.3000	22.00	-3.25	29914.720	3.0	36065.750	3.0
1625.3343	28.01	-2.28	129479.730	1.5	135630.630	2.5
1625.3740	18.01	-1.14	202544.320	2.5	208695.070	1.5
1625.4268	26.02	-.40	184247.160	2.0	190397.710	2.0
1625.4480	15.00	-.44	66343.330	.5	72493.800	1.5
1625.4809	7.00	-1.15	106758.731	.5	112909.076	1.5
1625.4852	20.00	-1.52	42526.591	2.0	48676.920	2.0
1625.4852	20.00	-.60	42526.591	2.0	48676.920	3.0
1625.4852	20.00	-2.53	42526.591	2.0	48676.920	1.0
1625.5458	23.00	-4.48	20202.490	2.5	26352.590	2.5
1625.5637	14.00	-3.04	58774.368	3.0	64924.400	3.0
1625.5669	27.00	-3.87	45971.190	3.5	52121.210	4.5
1625.6198	7.01	.45	196711.540	2.0	202861.360	3.0
1625.8154	25.00	-3.73	56356.210	3.5	62505.290	3.5
1625.8500	14.00	-4.26	58775.451	2.0	64924.400	3.0
1625.8630	30.02	-2.23	296720.900	3.0	302869.800	3.0
1625.9111	7.00	-1.68	106778.337	1.5	112927.055	1.5
1625.9444	22.00	-3.42	30060.328	4.0	36208.920	4.0
1626.0137	28.01	-2.92	129474.270	3.5	135622.600	3.5
1626.0217	13.01	-.42	133440.400	3.0	139588.700	3.0
1626.0217	13.01	.54	133440.400	3.0	139588.700	4.0
1626.0217	13.01	.35	133440.400	3.0	139588.700	4.0
1626.0243	28.01	-3.85	114942.420	1.5	121090.710	.5
1626.0798	28.01	-3.79	131063.850	.5	137211.930	.5
1626.2753	26.00	-3.22	44551.325	3.0	50698.666	2.0
1626.2788	26.00	-3.90	48238.832	2.0	54386.160	1.0
1626.2790	7.00	-3.95	104996.240	1.5	111143.567	.5
1626.3523	29.01	-.00	133594.050	3.0	139741.100	3.0
1626.3581	10.00	-2.42	161699.661	2.0	167846.689	2.0
1626.3608	14.00	-3.64	57798.072	2.0	63945.090	3.0
1626.3613	10.00	-1.52	161699.661	2.0	167846.677	3.0
1626.4193	18.00	-2.68	107496.463	1.0	113643.260	1.0
1626.4240	26.00	-4.34	47008.351	5.0	53155.130	4.0
1626.4267	10.00	-3.40	161699.661	2.0	167846.430	3.0
1626.4502	18.01	-4.50	151087.250	2.5	157233.930	3.5
1626.4793	26.00	-3.05	51827.590	2.0	57974.160	2.0
1626.6010	26.02	-.80	184247.160	2.0	190393.270	1.0
1626.6222	28.01	-1.67	99442.860	4.5	105588.890	4.5
1626.6235	22.00	-4.13	29986.185	3.0	36132.210	4.0
1626.7961	14.00	-2.05	56780.427	1.0	62925.800	1.0
1626.8237	7.00	-1.73	106758.731	.5	112904.000	.5
1626.8319	10.00	-3.56	161701.451	3.0	167846.689	2.0
1626.8351	10.00	-2.79	161701.451	3.0	167846.677	3.0
1626.8674	14.00	-1.69	56978.256	1.0	63123.360	0.0
1626.8764	10.01	-1.65	302831.800	.5	308976.870	.5
1626.8968	10.00	-1.39	161701.451	3.0	167846.444	4.0
1626.9005	10.00	-2.27	161701.451	3.0	167846.430	3.0
1626.9320	7.01	.05	220495.360	2.0	226640.220	3.0
1626.9716	28.01	-3.98	100475.820	3.5	106620.530	3.5
1626.9724	26.00	-4.40	48304.623	2.0	54449.330	1.0
1626.9902	28.01	-4.36	131133.580	2.5	137278.220	1.5
1627.0643	28.01	-3.15	68156.570	1.5	74300.930	1.5
1627.0815	18.00	-3.64	118459.662	1.0	124603.957	2.0
1627.1967	28.01	-2.42	129479.730	1.5	135623.590	1.5
1627.2047	18.01	-2.69	199959.620	2.5	206103.450	1.5
1627.2100	28.01	-3.54	129474.270	3.5	135618.080	2.5
1627.3292	26.00	-3.67	47017.170	3.0	53160.530	3.0
1627.4245	25.00	-2.64	57621.900	1.5	63764.900	2.5
1627.5112	14.00	-1.34	57198.027	3.0	63340.700	3.0
1627.6074	28.01	-4.85	112686.300	2.5	118828.610	2.5
1627.6498	24.00	-3.58	44068.720	3.0	50210.870	4.0
1627.6990	7.00	-4.27	105143.680	2.5	111285.644	1.5
1627.7266	28.01	-1.83	129503.240	4.5	135645.100	5.5
1627.7319	18.01	-.36	189934.550	.5	196076.390	1.5
1627.8485	13.01	-2.22	133447.300	4.0	139588.700	3.0
1627.8485	13.01	-.65	133447.300	4.0	139588.700	4.0
1627.8485	13.01	-.79	133447.300	4.0	139588.700	4.0
1627.8485	13.01	.87	133447.300	4.0	139588.700	5.0
1627.8989	28.00	-2.04	44565.100	3.0	50706.310	4.0
1627.9201	22.00	-3.56	36065.750	3.0	42206.880	2.0
1627.9784	9.00	-3.07	129937.330	1.5	136078.240	2.5
1628.0466	14.00	-1.70	56780.427	1.0	62921.080	2.0
1628.0574	22.00	-4.82	30060.328	4.0	36200.940	5.0
1628.0585	26.00	-2.89	48238.832	2.0	54379.440	3.0
1628.1423	28.00	-4.19	44206.185	3.0	50346.477	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1628.1640	27.00	-3.31	49025.420	1.5	55165.630	2.5
1628.1720	28.01	-1.78	129479.730	1.5	135619.910	1.5
1628.1932	28.01	-4.04	115785.060	1.5	121925.160	.5
1628.2489	27.00	-3.91	46562.870	1.5	52702.760	1.5
1628.2727	13.01	-1.38	138799.300	0.0	144939.100	1.0
1628.3550	25.00	-2.42	57705.830	.5	63845.320	1.5
1628.3948	17.00	-.52	91564.300	.5	97703.640	1.5
1628.4504	27.00	-4.40	48217.320	3.5	54356.450	4.5
1628.4568	17.00	-3.18	95706.534	1.5	101845.640	1.5
1628.4663	7.00	-2.91	110485.930	1.5	116625.000	1.5
1628.4663	7.00	-4.16	110485.930	1.5	116625.000	2.5
1628.4799	22.00	-1.96	34327.960	1.0	40466.979	2.0
1628.4875	7.00	-3.16	110486.010	2.5	116625.000	1.5
1628.4875	7.00	-3.31	110486.010	2.5	116625.000	2.5
1628.4876	25.00	-3.59	57305.620	3.5	63444.610	4.5
1628.5061	23.00	-6.47	14548.830	2.5	20687.750	1.5
1628.6043	17.00	-1.58	84988.480	1.5	91127.030	2.5
1628.6415	18.01	-2.69	199981.940	1.5	206120.350	2.5
1628.6574	28.01	-1.86	129479.730	1.5	135618.080	2.5
1628.6972	55.00	-1.98	22588.890	0.0	28728.767	0.0
1628.7609	26.00	-4.50	47017.170	3.0	53155.130	4.0
1628.7847	27.00	-3.05	45876.580	2.5	52014.450	1.5
1628.8033	24.00	-4.70	31106.370	4.0	37244.170	4.0
1628.8723	14.00	-2.39	58786.860	3.0	64924.400	3.0
1628.9387	26.00	-3.71	51836.870	1.0	57974.160	2.0
1628.9387	28.01	-2.52	129503.240	4.5	135640.530	4.5
1629.0456	26.00	-3.16	48238.832	2.0	54375.719	2.0
1629.1590	27.00	-3.52	45904.680	1.5	52041.140	.5
1629.1670	28.01	-2.63	113753.040	4.5	119889.470	5.5
1629.1908	26.00	-4.17	45913.480	3.0	52049.820	2.0
1629.2006	18.00	-1.94	107289.747	2.0	113426.050	2.0
1629.2126	14.00	-2.03	54245.020	0.0	60381.278	1.0
1629.2599	15.00	.08	67113.820	2.5	73249.900	1.5
1629.2665	26.00	-3.95	47755.485	3.0	53891.540	3.0
1629.2838	7.01	-2.65	203537.660	1.0	209673.650	2.0
1629.3263	17.00	-.55	91538.500	1.5	97674.330	2.5
1629.3980	22.00	-1.84	34535.040	2.0	40670.600	2.0
1629.4086	14.00	-.92	58788.880	4.0	64924.400	3.0
1629.5520	27.00	-4.48	48217.320	3.5	54352.300	3.5
1629.5892	18.00	-4.29	118469.117	2.0	124603.957	2.0
1629.6158	24.00	-3.59	48839.900	1.0	54974.640	2.0
1629.6511	26.00	-3.55	48122.913	3.0	54257.520	2.0
1629.7454	26.00	-3.56	44243.668	5.0	50377.920	5.0
1629.8973	15.00	-.81	66360.120	1.5	72493.800	1.5
1629.9388	28.00	.10	50039.180	2.0	56172.704	3.0
1629.9620	26.00	-4.13	49242.680	2.0	55376.117	1.0
1629.9729	26.00	-4.05	47606.092	5.0	53739.488	5.0
1630.0675	28.01	-3.41	115565.980	2.5	121699.020	1.5
1630.0954	18.00	-2.48	118906.665	2.0	125039.600	1.0
1630.1286	28.01	-2.62	115108.090	2.5	121240.900	3.5
1630.1685	22.00	-1.40	41780.950	4.0	47913.610	4.0
1630.2190	27.00	-2.18	46502.150	.5	52634.620	.5
1630.2660	7.00	-1.73	106778.337	1.5	112910.630	2.5
1630.3939	7.00	-2.23	106477.800	.5	112609.612	1.5
1630.4194	28.00	-1.66	50142.800	3.0	56274.516	2.0
1630.5115	18.00	-4.51	118512.170	0.0	124643.540	1.0
1630.5168	7.00	-2.08	106814.459	2.5	112945.809	2.5
1630.6792	7.00	-1.77	106778.337	1.5	112909.076	1.5
1630.7508	27.00	-2.99	46329.630	2.5	52460.100	2.5
1630.7535	15.00	-.17	66813.040	1.5	72943.500	.5
1630.8567	28.00	-1.67	44336.100	4.0	50466.172	4.0
1630.8830	22.00	-3.45	29829.097	0.0	35959.070	1.0
1630.9126	22.00	-4.41	38451.298	2.0	44581.160	2.0
1631.0504	28.00	-1.74	42605.964	3.0	48735.308	2.0
1631.1419	18.01	-.91	202544.320	2.5	208673.320	2.5
1631.1952	15.01	.58	123891.600	2.0	130020.400	3.0
1631.2085	29.01	-4.43	130945.000	1.0	137073.750	2.0
1631.2537	27.00	-4.50	45904.680	1.5	52033.260	1.5
1631.4675	17.00	-1.88	95597.593	.5	101725.370	1.5
1631.5253	26.00	-3.11	54237.200	4.0	60364.760	3.0
1631.6211	13.01	-2.83	138811.900	2.0	144939.100	1.0
1631.6211	13.01	-3.31	138811.900	1.0	144939.100	1.0
1631.6233	20.00	-2.19	41679.008	1.0	47806.200	1.0
1631.6744	15.00	-3.19	69894.600	1.5	76021.600	1.5
1631.7782	7.00	-4.43	110498.390	3.5	116625.000	2.5
1631.7809	7.00	-4.37	110498.400	2.5	116625.000	1.5
1631.8981	28.01	-3.17	129503.240	4.5	135629.400	3.5
1632.0306	7.00	-1.93	106778.337	1.5	112904.000	.5
1632.0324	17.00	-4.15	88188.550	1.5	94314.206	1.5
1632.1027	22.00	-4.59	29971.078	4.0	36096.470	3.0
1632.1619	28.01	-2.30	129503.240	4.5	135628.410	4.5
1632.3138	28.01	-1.61	128853.870	2.5	134978.470	2.5
1632.3138	13.01	-1.19	142607.000	2.0	148731.600	3.0
1632.3404	15.00	-3.24	74301.700	2.5	80426.200	1.5
1632.3724	27.00	-4.19	40621.620	1.5	46746.000	2.5
1632.4524	22.00	-1.98	41995.390	6.0	48119.470	5.0
1632.4964	26.00	-.32	43434.585	3.0	49558.500	4.0
1632.5244	27.00	-3.70	45971.190	3.5	52095.000	3.5
1632.6283	28.01	-4.46	115739.150	4.5	121862.570	3.5
1632.6523	26.00	-4.35	54683.390	4.0	60806.720	3.0
1632.6870	7.00	-2.43	110501.800	3.5	116625.000	2.5
1632.7297	28.01	-4.17	112686.300	2.5	118809.340	1.5
1632.7590	22.00	-1.85	41895.150	5.0	48018.080	4.0
1632.7937	17.01	-2.97	131754.800	1.0	137877.600	2.0
1632.7990	24.00	-4.64	42538.810	3.0	48661.590	3.0
1632.8350	28.00	-3.59	43654.974	3.0	49777.619	3.0
1632.8790	23.00	-6.94	14910.040	3.5	21032.520	3.5
1632.9803	55.00	-1.71	22631.830	0.0	28755.603	0.0
1632.9937	7.01	-.49	196592.070	1.0	202714.120	1.0
1633.0097	26.00	-4.04	51691.980	3.0	57813.970	3.0
1633.0406	12.00	-3.15	54706.536	1.0	60828.410	2.0
1633.0417	17.00	-.83	85442.430	1.5	91564.300	.5
1633.0924	23.02	-3.84	155801.600	1.5	161923.280	2.5
1633.1378	18.01	-3.77	199981.940	1.5	206103.450	1.5
1633.1751	14.02	.61	234428.400	1.0	240549.770	2.0
1633.1892	26.00	-1.22	48221.323	1.0	54342.640	2.0
1633.2097	7.00	-3.05	110459.760	.5	116581.000	.5
1633.2097	7.00	-3.37	110459.760	.5	116581.000	1.5
1633.2097	7.00	-2.77	110459.760	1.5	116581.000	.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1633.2097	7.00	-2.38	110459.760	1.5	116581.000	1.5
1633.2097	7.00	-4.75	110459.760	1.5	116581.000	2.5
1633.2850	26.00	-3.65	45509.112	1.0	51630.070	2.0
1633.3005	28.01	-2.42	115120.000	2.5	121240.900	3.5
1633.3939	6.00	-1.44	72610.720	2.0	78731.270	1.0
1633.4019	28.01	-3.82	114970.190	.5	121090.710	.5
1633.4126	27.00	-4.86	44782.130	4.5	50902.610	4.5
1633.4633	18.01	-2.26	183985.940	1.5	190106.230	1.5
1633.4713	6.00	-.36	78731.270	1.0	84851.530	1.0
1633.4873	30.02	-3.71	294005.800	5.0	300126.000	4.0
1633.4873	13.01	-2.62	138518.700	2.0	144638.900	2.0
1633.4873	13.01	-1.89	138518.700	2.0	144638.900	1.0
1633.4873	13.01	-4.17	138518.700	2.0	144638.900	3.0
1633.5087	28.00	-.39	50142.800	3.0	56262.920	3.0
1633.5247	21.00	-4.90	32751.540	3.5	38871.600	2.5
1633.5514	10.01	-3.32	302057.260	.5	308177.220	1.5
1633.6074	24.00	-2.19	42438.820	2.0	48558.570	2.0
1633.6181	28.01	-3.63	115108.090	2.5	121227.800	2.5
1633.6974	26.00	-3.25	44760.739	1.0	50880.152	1.0
1633.7067	26.00	-4.50	44415.057	4.0	50534.435	3.0
1633.7115	28.01	-3.40	129503.240	4.5	135622.600	3.5
1633.7356	28.01	-3.27	129479.730	1.5	135599.000	.5
1633.7569	9.00	-1.11	129484.660	1.5	135603.850	2.5
1633.7799	14.00	-1.72	56978.256	1.0	63097.360	1.0
1633.9411	15.00	-2.46	68183.200	1.5	74301.700	2.5
1633.9411	17.01	-1.90	139350.000	1.0	145468.500	1.0
1633.9777	14.00	-2.12	57372.297	2.0	63490.660	3.0
1634.1815	30.02	.19	294005.800	5.0	300123.400	5.0
1634.2136	23.01	-3.82	44657.990	2.0	50775.470	2.0
1634.3036	14.00	-1.88	57372.297	2.0	63489.440	2.0
1634.5690	29.01	-1.44	133594.050	3.0	139710.200	2.0
1634.6142	14.00	-2.12	57468.239	2.0	63584.220	1.0
1634.6857	14.00	-.80	57372.297	2.0	63488.010	3.0
1634.6892	17.01	-2.29	141010.000	2.0	147125.700	3.0
1634.7267	23.00	-3.23	33481.450	3.5	39597.010	4.5
1634.7748	24.00	-4.22	44068.720	3.0	50184.100	2.0
1634.8176	27.00	-4.30	49197.740	4.5	55312.960	4.5
1634.8352	14.00	-2.36	56978.256	1.0	63093.410	2.0
1634.9031	22.00	-4.99	41943.950	1.0	48058.850	1.0
1634.9913	28.01	-3.73	130174.030	1.5	136288.600	2.5
1635.0261	23.02	-2.87	154265.200	3.5	160379.640	2.5
1635.0394	12.01	-2.85	108784.330	.5	114898.720	1.5
1635.0670	26.00	-3.05	48122.913	3.0	54237.200	4.0
1635.0694	26.00	-4.37	45220.662	3.0	51334.940	4.0
1635.1170	15.01	-.52	123456.300	1.0	129570.400	1.0
1635.1705	29.01	-1.58	140984.200	1.0	147098.100	0.0
1635.4077	17.00	-1.52	95612.357	1.5	101725.370	1.5
1635.4128	14.00	-1.80	57017.496	2.0	63130.490	1.0
1635.5193	7.00	-1.83	106814.459	2.5	112927.055	1.5
1635.5453	28.00	-3.23	44565.100	3.0	50677.599	3.0
1635.5557	12.01	-3.15	108784.330	.5	114896.790	.5
1635.8022	7.00	-4.47	106758.731	.5	112870.270	.5
1635.8207	28.01	-1.68	128867.000	3.5	134978.470	2.5
1635.8287	22.00	-1.55	41995.390	6.0	48106.830	6.0
1636.1379	22.00	-3.36	29986.185	3.0	36096.470	3.0
1636.2490	18.01	-1.80	204417.230	1.5	210527.100	2.5
1636.3214	17.01	-2.51	131768.000	2.0	137877.600	2.0
1636.3615	28.01	-2.04	99559.330	2.5	105668.780	2.5
1636.3910	28.01	-3.80	109675.720	.5	115785.060	1.5
1636.4189	28.00	-.67	42605.964	3.0	48715.200	4.0
1636.4749	12.00	-3.44	54192.256	3.0	60301.283	2.0
1636.4749	12.00	-2.11	54192.256	3.0	60301.283	3.0
1636.4749	12.00	-2.30	54192.256	3.0	60301.283	3.0
1636.4749	12.00	-.83	54192.256	3.0	60301.283	4.0
1636.4851	12.00	-2.07	54192.294	2.0	60301.283	2.0
1636.4851	12.00	-1.08	54192.294	2.0	60301.283	3.0
1636.4851	12.00	-2.49	54192.294	2.0	60301.283	3.0
1636.4963	12.00	-1.16	54192.336	1.0	60301.283	2.0
1636.5196	28.01	-3.36	112719.750	3.5	118828.610	2.5
1636.5284	18.00	-4.79	119683.113	2.0	125791.940	2.0
1636.6294	9.02	.27	453696.100	.5	459804.550	1.5
1636.6342	14.00	-2.36	58774.368	3.0	64882.800	2.0
1636.6857	28.01	-1.98	114942.420	1.5	121050.660	2.5
1636.7393	28.01	-4.40	115209.850	3.5	121317.890	3.5
1636.8036	28.01	-2.39	115120.000	2.5	121227.800	2.5
1636.8599	14.02	-1.89	234442.180	2.0	240549.770	2.0
1636.9244	14.00	-3.39	58775.451	2.0	64882.800	2.0
1636.9537	26.00	-4.67	54257.520	2.0	60364.760	3.0
1636.9976	17.00	-1.77	94482.236	2.5	100589.312	2.5
1637.0405	22.00	-3.84	36000.144	4.0	42107.060	4.0
1637.0797	28.01	-3.21	115592.250	1.5	121699.020	1.5
1637.0931	18.01	-4.87	200138.850	3.5	206245.570	3.5
1637.1413	21.00	-2.11	14926.240	2.5	21032.780	2.5
1637.1815	23.00	-4.08	37959.660	2.5	44066.050	3.5
1637.2065	22.00	-3.53	29907.273	2.0	36013.570	2.0
1637.2137	25.00	-4.70	51515.630	2.5	57621.900	1.5
1637.2593	30.02	-3.09	296720.900	3.0	302827.000	2.0
1637.2781	28.01	-3.77	108763.320	.5	114869.350	1.5
1637.3371	22.00	-1.50	33680.130	3.0	39785.940	4.0
1637.3853	11.00	-1.33	30266.990	.5	36372.620	.5
1637.4229	26.00	-2.96	54066.570	4.0	60172.060	4.0
1637.7662	28.01	-3.43	130184.390	2.5	136288.600	2.5
1637.8360	7.00	-4.36	110521.050	1.5	116625.000	1.5
1637.8360	7.00	-4.04	110521.050	1.5	116625.000	2.5
1637.8703	22.00	-3.57	29855.248	1.0	35959.070	1.0
1637.8762	28.01	-3.82	121227.800	2.5	127331.600	2.5
1637.9326	18.01	-.65	200151.640	1.5	206255.230	2.5
1637.9825	18.00	-4.93	115366.900	1.0	121470.304	0.0
1638.0176	14.00	-.23	47284.061	1.0	53387.334	1.0
1638.0373	24.00	-4.41	44080.900	2.0	50184.100	2.0
1638.1017	28.01	-2.18	129503.240	4.5	135606.200	5.5
1638.1232	22.00	-2.84	18818.230	0.0	24921.110	1.0
1638.1535	14.00	-.78	48102.323	2.0	54205.090	2.0
1638.2252	13.01	-1.69	138536.400	3.0	144638.900	2.0
1638.2252	13.01	-2.59	138536.400	3.0	144638.900	3.0
1638.5452	22.00	-4.95	29912.262	3.0	36013.570	2.0
1638.5581	17.00	-1.48	84648.100	2.5	90749.360	2.5
1638.6172	28.00	-.14	48671.900	3.0	54772.940	3.0
1638.7998	27.00	-3.92	46671.940	2.5	52772.300	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1638.8563	28.01	-2.73	114942.420	1.5	121042.570	1.5
1638.8697	28.01	-3.26	114942.420	1.5	121042.520	1.5
1638.8858	11.00	-1.03	30272.580	1.5	36372.620	.5
1639.0288	26.00	-3.94	44511.795	2.0	50611.303	3.0
1639.0605	22.00	-4.90	41959.460	0.0	48058.850	1.0
1639.1062	28.01	-4.24	106620.530	3.5	112719.750	3.5
1639.1196	22.00	-1.39	41895.150	5.0	47994.320	5.0
1639.1921	13.01	-1.91	140091.200	1.0	146190.100	0.0
1639.2056	22.00	-4.99	29914.720	3.0	36013.570	2.0
1639.2163	27.00	-3.57	45971.190	3.5	52070.000	2.5
1639.2432	26.00	-3.65	48350.620	1.0	54449.330	1.0
1639.2964	26.00	-3.35	44243.668	5.0	50342.180	6.0
1639.3051	10.01	-2.99	276276.850	1.5	282375.330	1.5
1639.3150	18.00	-2.88	118651.447	1.0	124749.890	0.0
1639.3898	11.00	-2.16	33200.675	.5	39298.840	1.5
1639.3929	26.00	.01	48036.667	2.0	54134.820	2.0
1639.4180	9.00	-.65	130489.930	.5	136587.990	1.5
1639.4663	27.00	-4.18	46872.740	3.5	52970.620	2.5
1639.4690	25.00	-2.92	57485.970	2.5	63583.840	1.5
1639.5214	11.00	-2.46	33200.675	.5	39298.350	.5
1639.5457	22.00	-3.77	14028.470	2.0	20126.055	3.0
1639.5604	7.00	-4.18	110404.470	1.5	116502.000	.5
1639.5604	7.00	-3.64	110404.470	1.5	116502.000	1.5
1639.5739	7.00	-2.19	110404.520	2.5	116502.000	1.5
1639.7057	26.02	-1.18	184316.580	3.0	190413.570	4.0
1639.7277	17.00	-1.94	95706.534	1.5	101803.442	2.5
1639.7299	15.00	-2.57	69924.700	2.5	76021.600	1.5
1639.7447	26.00	-1.55	47755.485	3.0	53852.330	4.0
1639.8052	7.00	-1.39	106814.459	2.5	112911.079	3.5
1639.9259	7.00	-1.13	106814.459	2.5	112910.630	2.5
1639.9397	23.02	-4.51	154480.500	4.5	160576.620	3.5
1639.9531	17.00	-.50	85442.430	1.5	91538.500	1.5
1639.9881	14.00	-4.48	58786.860	3.0	64882.800	2.0
1640.0661	18.01	-4.30	203501.800	2.5	209597.450	1.5
1640.1334	28.01	-3.81	107082.210	2.5	113177.610	3.5
1640.1665	18.00	-3.52	118459.662	1.0	124554.939	1.0
1640.1818	22.00	-2.34	18825.890	1.0	24921.110	1.0
1640.2221	7.00	-2.65	110485.930	1.5	116581.000	.5
1640.2221	7.00	-3.34	110485.930	1.5	116581.000	1.5
1640.2437	7.00	-2.26	110486.010	2.5	116581.000	1.5
1640.2437	7.00	-4.68	110486.010	2.5	116581.000	2.5
1640.3293	22.00	-4.96	29971.078	4.0	36065.750	3.0
1640.3441	7.00	-3.49	106814.459	2.5	112909.076	1.5
1640.4563	22.00	-4.64	41368.860	4.0	47463.060	4.0
1640.4757	26.00	-4.29	47831.132	2.0	53925.260	1.0
1640.4959	14.00	-3.21	56780.427	1.0	62874.480	2.0
1640.5242	10.00	-.76	162830.703	3.0	168924.651	2.0
1640.5640	13.01	-1.45	140091.200	1.0	146185.000	1.0
1640.5640	13.01	-2.54	140091.200	2.0	146185.000	1.0
1640.5640	13.01	-.97	140091.200	1.0	146185.000	2.0
1640.5640	13.01	-1.36	140091.200	2.0	146185.000	2.0
1640.5640	13.01	-.61	140091.200	2.0	146185.000	3.0
1640.5640	13.01	-1.23	140091.200	0.0	146185.000	1.0
1640.5774	10.01	-1.93	301801.090	3.5	307894.840	2.5
1640.5817	18.00	-4.30	114975.070	1.0	121068.804	1.0
1640.6071	23.00	-1.70	17116.920	3.5	23210.560	2.5
1640.6179	28.01	-4.49	130197.230	1.5	136290.830	.5
1640.6206	22.00	-.83	42092.520	4.0	48186.110	4.0
1640.6660	7.00	-2.83	105119.850	1.5	111213.271	1.5
1640.7797	22.00	-4.60	30039.211	5.0	36132.210	4.0
1640.7864	14.00	-1.70	56503.346	2.0	62596.320	2.0
1640.9679	30.02	-.80	294005.800	5.0	300098.100	4.0
1640.9760	27.00	-4.87	45111.480	4.5	51203.750	5.5
1640.9760	27.00	-4.28	48334.370	1.5	54426.640	1.5
1641.0030	27.00	-4.36	46002.830	2.5	52095.000	3.5
1641.0137	28.01	-2.89	114052.040	3.5	120144.170	2.5
1641.0595	27.00	-4.01	47612.180	1.5	53704.140	2.5
1641.0668	7.00	-2.12	106778.337	1.5	112870.270	.5
1641.0865	23.00	-4.37	33306.960	4.5	39398.820	3.5
1641.0999	9.00	-4.17	130059.400	.5	136151.210	.5
1641.1188	27.00	-3.37	46671.940	2.5	52763.680	3.5
1641.1296	30.02	.02	294034.300	4.0	300126.000	4.0
1641.1350	23.00	-8.31	14514.750	1.5	20606.430	.5
1641.2982	14.00	-.77	54871.031	1.0	60962.105	2.0
1641.3982	20.00	-4.06	42343.587	3.0	48434.290	2.0
1641.3990	28.01	-4.98	121240.900	3.5	127331.600	2.5
1641.5823	6.00	-1.03	75253.970	1.0	81343.990	2.0
1641.6335	25.00	-4.71	57305.620	3.5	63395.450	3.5
1641.6631	18.01	-.62	182951.150	.5	189040.870	1.5
1641.6685	15.00	-2.13	75705.400	3.5	81795.100	3.5
1641.6707	20.00	-4.20	42170.558	3.0	48260.250	3.0
1641.7370	28.00	-1.60	48671.900	3.0	54761.346	4.0
1641.7969	20.00	-3.14	42171.026	4.0	48260.250	3.0
1641.8303	30.02	-1.80	294034.300	4.0	300123.400	5.0
1641.8681	6.00	-2.44	79310.850	2.0	85399.810	2.0
1641.9204	20.00	-4.25	42170.214	2.0	48258.980	2.0
1641.9328	6.00	-.58	75255.270	2.0	81343.990	2.0
1641.9652	15.00	-3.30	68183.200	1.5	74271.800	1.5
1642.0132	20.00	-3.35	42170.558	3.0	48258.980	2.0
1642.0277	26.00	-4.51	45281.816	2.0	51370.184	2.0
1642.0299	26.01	-3.74	93484.750	4.5	99573.110	4.5
1642.1038	20.00	-3.51	42170.214	2.0	48258.300	1.0
1642.1998	26.02	-.33	184316.580	3.0	190404.310	3.0
1642.2160	7.00	-2.33	106477.800	.5	112565.470	.5
1642.2619	30.02	.84	296720.900	3.0	302808.400	4.0
1642.2673	22.00	-4.62	41194.420	3.0	47281.900	3.0
1642.4129	7.00	-4.91	110349.060	2.5	116436.000	1.5
1642.4318	27.00	-2.80	46685.430	1.5	52772.300	2.5
1642.5214	14.00	-2.00	57798.072	2.0	63884.610	1.0
1642.6828	26.00	-2.57	53840.680	6.0	59926.620	5.0
1642.7880	9.00	-.26	130016.100	2.5	136101.650	3.5
1642.9188	22.00	-.35	33700.874	4.0	39785.940	4.0
1642.9701	26.00	-4.97	45964.944	2.0	52049.820	2.0
1642.9852	28.01	-2.74	115209.850	3.5	121294.670	4.5
1643.0384	22.00	-.40	37659.927	3.0	43744.550	4.0
1643.2876	20.02	-2.66	365363.880	1.0	371447.580	1.0
1643.3147	23.00	-4.89	37834.980	1.5	43918.580	2.5
1643.4173	23.00	-5.67	14949.300	4.5	21032.520	3.5
1643.4457	26.00	.19	47755.485	3.0	53838.600	3.0
1643.4926	14.00	-1.47	48102.323	2.0	54185.264	1.0
1643.5173	28.01	-3.32	107142.210	1.5	113225.060	.5
1643.5821	7.00	-3.93	110498.390	3.5	116581.000	2.5
1643.5848	7.00	-3.85	110498.400	2.5	116581.000	1.5
1643.6605	18.00	.03	114147.750	1.0	120230.070	2.0
1643.7983	27.00	-4.49	46032.100	4.5	52113.910	5.5
1643.8721	26.00	-4.73	48304.623	2.0	54386.160	1.0
1643.9681	26.00	-4.06	49297.660	1.0	55378.842	2.0
1643.9821	26.02	-.40	184316.580	3.0	190397.710	2.0
1644.0092	6.00	-2.68	79318.780	1.0	85399.810	2.0
1644.0632	23.01	-4.30	44657.990	2.0	50738.820	1.0
1644.1417	17.00	-2.70	84988.480	1.5	91069.020	.5
1644.1958	18.01	-2.17	194800.180	4.5	200880.520	3.5
1644.2281	9.00	-2.30	130374.860	1.5	136455.080	1.5
1644.2985	28.01	-2.08	113753.040	4.5	119833.000	5.5
1644.3244	14.00	-1.52	57017.496	2.0	63097.360	1.0
1644.3661	28.01	-3.56	130208.890	3.5	136288.600	2.5
1644.3688	13.01	-1.50	138559.200	4.0	144638.900	3.0
1644.3877	10.01	-1.92	302057.260	.5	308136.890	1.5
1644.4310	18.01	-2.84	196076.390	1.5	202155.860	2.5
1644.4800	7.00	-2.96	106758.731	.5	112838.020	1.5
1644.5473	27.00	-4.86	45105.590	3.5	51184.630	3.5
1644.5587	7.00	-2.42	105119.850	1.5	111198.848	.5
1644.5641	26.00	-4.30	46982.302	6.0	53061.280	5.0
1644.6285	17.00	-2.01	91660.580	2.5	97739.320	1.5
1644.7051	26.00	-4.36	49297.660	1.0	55376.117	1.0
1644.7070	26.00	-3.05	51619.140	3.0	57697.590	4.0
1644.7535	20.00	-2.38	41679.008	1.0	47757.286	2.0
1644.7746	9.00	-2.85	129607.070	.5	135685.270	1.5
1644.8071	27.00	-2.85	46186.410	1.5	52264.490	1.5
1644.8342	10.01	-.62	312763.910	4.5	318841.890	4.5
1644.8450	10.01	-2.19	312763.910	4.5	318841.850	3.5
1644.9235	18.01	-3.86	206120.350	2.5	212198.000	3.5
1645.0523	7.00	-1.87	106868.635	3.5	112945.809	2.5
1645.1592	7.00	-1.00	106814.459	2.5	112891.238	3.5
1645.1996	9.00	-3.16	130374.860	1.5	136451.490	2.5
1645.2172	7.00	-4.46	104984.340	.5	111060.905	.5
1645.2619	10.01	-1.50	312765.490	3.5	318841.890	4.5
1645.2727	10.01	-.70	312765.490	3.5	318841.850	3.5
1645.3322	9.00	-.87	130016.100	2.5	136092.240	2.5
1645.3377	27.00	-2.89	48828.870	2.5	54904.990	2.5
1645.3934	14.00	-1.71	57017.496	2.0	63093.410	2.0
1645.4430	26.00	-3.41	47693.289	3.0	53769.020	4.0
1645.4514	18.01	-1.38	208591.780	1.5	214667.480	2.5
1645.4958	26.00	-4.77	48036.667	2.0	54112.203	2.0
1645.5598	15.00	-2.36	75689.200	1.5	81764.500	1.5
1645.6437	10.01	-3.29	301948.000	1.5	308022.990	.5
1645.6906	26.00	-3.46	48304.623	2.0	54379.440	3.0
1645.6951	17.01	-1.35	140259.000	2.0	146333.800	2.0
1645.8794	6.00	-4.54	81769.790	2.0	87843.910	1.0
1645.9146	22.00	-1.20	41985.830	3.0	48059.820	3.0
1645.9523	28.00	-1.57	43258.792	4.0	49332.643	4.0
1645.9553	24.00	-3.08	35501.260	3.0	41575.100	3.0
1645.9661	30.02	-1.37	294034.300	4.0	300108.100	3.0
1645.9688	23.00	-4.79	31541.180	3.5	37614.970	3.5
1645.9824	9.00	-1.72	130016.100	2.5	136089.840	1.5
1646.0076	20.00	-2.78	41679.008	1.0	47752.655	1.0
1646.0203	26.00	-3.10	45220.662	3.0	51294.262	3.0
1646.1830	30.02	-.49	294035.100	2.0	300108.100	3.0
1646.1992	29.01	-3.12	117231.690	1.0	123304.630	1.0
1646.2887	23.02	-2.78	155496.800	1.5	161569.410	1.5
1646.3510	28.01	-2.35	114970.190	.5	121042.570	1.5
1646.3646	28.01	-3.59	114970.190	.5	121042.520	1.5
1646.5110	6.00	-1.00	75253.970	1.0	81325.760	1.0
1646.5219	27.00	-4.48	46562.870	1.5	52634.620	.5
1646.5346	17.00	-1.23	94973.683	.5	101045.386	1.5
1646.6276	15.00	-1.30	66813.040	1.5	72884.400	2.5
1646.6385	26.00	-4.53	54683.390	4.0	60754.710	4.0
1646.6577	16.00	-.37	73920.011	3.0	79991.260	4.0
1646.6992	26.00	-3.67	48304.623	2.0	54375.719	2.0
1646.7253	17.01	-2.56	140259.000	2.0	146330.000	1.0
1646.7497	27.00	-4.89	48443.760	2.5	54514.670	3.5
1646.8636	6.00	-1.47	75255.270	2.0	81325.760	1.0
1646.8983	10.00	-1.62	163657.268	1.0	169727.630	1.0
1646.9206	23.02	-3.45	155853.000	2.5	161923.280	2.5
1647.0291	18.01	-1.28	204515.000	.5	210584.880	1.5
1647.0291	10.01	-.16	312772.010	3.5	318841.890	4.5
1647.0400	10.01	-1.48	312772.010	3.5	318841.850	3.5
1647.0943	6.00	-.99	75256.120	0.0	81325.760	1.0
1647.1076	7.00	-2.10	105143.680	2.5	111213.271	1.5
1647.1159	29.01	.36	135664.340	1.0	141733.900	2.0
1647.1480	14.00	-4.79	58774.368	3.0	64843.810	4.0
1647.1594	10.01	-.16	312772.450	2.5	318841.850	3.5
1647.2354	25.00	-3.24	51552.780	.5	57621.900	1.5
1647.2924	25.00	-4.15	57305.620	3.5	63374.530	4.5
1647.3385	24.00	-2.42	42438.820	2.0	48507.560	1.0
1647.3583	26.00	-4.71	42859.756	2.0	48928.423	2.0
1647.3657	28.01	-2.97	123434.600	4.5	129503.240	4.5
1647.4037	18.01	-1.14	203344.980	1.5	209413.480	1.5
1647.4161	26.00	-3.58	48531.896	3.0	54600.350	3.0
1647.4218	28.00	-1.93	50789.500	4.0	56857.933	4.0
1647.4743	10.00	-1.09	162899.113	2.0	168967.353	1.0
1647.5837	26.00	-3.81	47092.693	3.0	53160.530	3.0
1647.6860	14.00	-1.99	54313.818	1.0	60381.278	1.0
1647.7648	27.00	-3.97	46002.830	2.5	52070.000	2.5
1647.7871	18.00	-3.87	118459.662	1.0	124526.750	0.0
1647.9278	28.01	-.47	114836.630	3.5	120903.200	3.5
1647.9604	28.01	-4.87	129988.050	2.5	136054.500	1.5
1648.0853	18.01	-1.63	196089.870	2.5	202155.860	2.5
1648.1000	28.00	-2.04	42605.964	3.0	48671.900	3.0
1648.1620	14.00	-3.37	57798.072	2.0	63863.780	2.0
1648.1641	7.02	.27	311716.100	1.5	317781.800	2.5
1648.2429	27.00	-2.48	48217.320	3.5	54282.730	2.5
1648.3407	15.00	-.43	58174.450	1.5	64239.500	.5
1648.3815	9.00	-3.41	130059.400	.5	136124.300	.5
1648.4359	15.00	-2.95	75699.800	.5	81764.500	1.5
1648.4454	7.00	-4.95	104996.240	1.5	111060.905	.5
1648.4522	10.01	-2.00	312763.910	4.5	318828.550	3.5
1648.6696	18.01	-1.67	195281.380	.5	201345.220	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1648.6805	30.02	-.38	294034.300	4.0	300098.100	4.0
1648.8818	10.01	-1.78	312765.490	3.5	318828.550	2.5
1648.8818	10.01	-.72	312765.490	3.5	318828.550	3.5
1648.9525	27.00	-4.87	45111.480	4.5	51174.280	5.5
1648.9661	6.00	-3.92	81769.790	2.0	87832.540	2.0
1648.9715	25.00	-4.30	41403.930	2.5	47466.660	1.5
1648.9832	26.00	-3.99	48928.423	2.0	54991.110	1.0
1649.0512	26.00	-4.42	47092.693	3.0	53155.130	4.0
1649.1168	26.00	-4.01	47812.104	4.0	53874.300	5.0
1649.1320	9.00	-2.94	130016.100	2.5	136078.240	2.5
1649.2833	28.00	-1.99	44475.158	2.0	50536.742	1.0
1649.3959	18.01	-4.90	202420.490	.5	208481.660	.5
1649.5715	28.00	-.94	48671.900	3.0	54732.425	2.0
1649.6109	6.00	-3.57	81769.790	2.0	87830.170	1.0
1649.6229	7.00	-4.49	105143.680	2.5	111204.016	2.5
1649.6245	25.00	-4.22	57485.970	2.5	63546.300	3.5
1649.6428	26.00	-4.42	44415.057	4.0	50475.320	4.0
1649.7171	9.00	-3.27	130374.860	1.5	136434.850	2.5
1649.8006	7.00	-3.45	106778.337	1.5	112838.020	1.5
1649.8042	22.00	-2.98	41780.950	4.0	47840.620	3.0
1649.8505	7.02	.02	311691.300	.5	317750.800	1.5
1650.0025	12.00	-2.91	54676.438	3.0	60735.380	2.0
1650.0025	12.00	-4.11	54676.438	3.0	60735.380	3.0
1650.0057	10.01	-1.01	301948.000	1.5	308006.930	.5
1650.0766	12.00	-4.05	54676.710	2.0	60735.380	2.0
1650.0766	12.00	-3.14	54676.710	2.0	60735.380	1.0
1650.0766	12.00	-4.25	54676.710	3.0	60735.380	3.0
1650.0766	12.00	-2.81	54676.710	4.0	60735.380	3.0
1650.0792	27.00	-4.97	45111.480	4.5	51170.140	4.5
1650.1446	18.01	-1.04	194822.100	3.5	200880.520	3.5
1650.2754	9.00	-1.04	129937.330	1.5	135995.270	.5
1650.3279	17.00	-1.87	95534.923	.5	101592.670	.5
1650.3298	28.00	-1.61	48715.200	4.0	54772.940	3.0
1650.3615	5.00	-3.39	57786.376	.5	63844.000	1.5
1650.5205	6.00	-1.13	75253.970	1.0	81311.010	0.0
1650.5287	22.00	-3.95	39149.260	2.0	45206.270	3.0
1650.5353	5.00	-3.13	57787.014	1.5	63844.000	2.5
1650.5353	5.00	-4.09	57787.014	1.5	63844.000	1.5
1650.6159	23.02	-3.67	154265.200	3.5	160321.890	2.5
1650.6350	22.00	-1.63	34327.960	1.0	40384.580	1.0
1650.6568	10.01	-1.93	312772.010	3.5	318828.550	2.5
1650.6568	10.01	-1.03	312772.010	3.5	318828.550	3.5
1650.7522	28.01	-1.80	99442.860	4.5	105499.050	3.5
1650.7768	10.01	-.55	312772.450	2.5	318828.550	2.5
1650.7768	10.01	.03	312772.450	2.5	318828.550	3.5
1650.7945	20.00	-1.28	42514.845	0.0	48570.880	1.0
1650.8926	26.00	-4.28	45294.830	5.0	51350.505	4.0
1650.8939	7.00	-3.61	110385.330	2.5	116441.000	1.5
1650.8939	7.00	-3.91	110385.330	2.5	116441.000	2.5
1650.8939	7.00	-3.09	110385.330	3.5	116441.000	2.5
1651.0958	14.00	-3.67	58788.880	4.0	64843.810	4.0
1651.1367	9.00	-2.32	130016.100	2.5	136070.880	3.5
1651.2375	9.00	-.82	130059.400	.5	136113.810	1.5
1651.2790	26.00	-4.26	47693.289	3.0	53747.547	3.0
1651.3311	26.00	-3.97	47106.463	4.0	53160.530	3.0
1651.3657	18.01	-4.23	195297.610	1.5	201351.550	2.5
1651.4258	7.01	-.54	196711.540	2.0	202765.260	2.0
1651.5404	18.01	-1.77	208921.200	1.5	214974.500	2.5
1651.5589	26.00	-2.75	44826.920	0.0	50880.152	1.0
1651.6416	26.00	-3.93	47008.351	5.0	53061.280	5.0
1651.6749	26.00	.60	47960.973	4.0	54013.780	5.0
1651.7379	22.00	-4.71	36000.144	4.0	42052.720	3.0
1651.8078	26.00	-4.70	53874.300	5.0	59926.620	5.0
1651.8482	20.00	-1.88	42518.708	1.0	48570.880	1.0
1651.8482	20.00	-4.20	42518.708	1.0	48570.880	2.0
1651.8506	22.00	-1.47	35035.147	2.0	41087.310	3.0
1651.9115	9.00	-2.14	130374.860	1.5	136426.800	1.5
1651.9505	22.00	-4.57	29907.273	2.0	35959.070	1.0
1651.9838	18.00	-1.42	106087.305	1.0	112138.980	2.0
1652.1217	24.00	-4.39	44050.870	4.0	50102.040	3.0
1652.1271	18.01	-1.61	208923.410	2.5	214974.560	3.5
1652.1326	26.02	-1.58	184374.590	4.0	190425.720	5.0
1652.1435	18.01	-2.92	208923.410	2.5	214974.500	2.5
1652.2582	7.00	-4.26	110385.330	2.5	116436.000	1.5
1652.2582	7.00	-4.55	110385.330	2.5	116436.000	2.5
1652.2582	7.00	-4.49	110385.330	3.5	116436.000	2.5
1652.4057	27.00	-2.40	46746.000	2.5	52796.130	2.5
1652.4330	9.00	-1.06	130059.400	.5	136109.430	.5
1652.4685	15.00	-2.22	66834.500	1.5	72884.400	2.5
1652.4958	15.00	-1.48	75484.400	2.5	81534.200	3.5
1652.5505	17.01	-3.21	131754.800	1.0	137804.400	1.0
1652.6215	9.02	-3.66	460141.630	2.5	466190.970	3.5
1652.6886	9.00	-3.95	117872.916	1.5	123922.010	1.5
1652.7143	15.00	-2.01	75353.400	1.5	81402.400	2.5
1652.7280	18.01	-3.77	206148.940	3.5	212197.890	4.5
1652.7591	7.00	-2.49	106758.731	.5	112807.567	.5
1652.7963	30.02	-1.03	294034.300	4.0	300083.000	3.0
1652.8053	26.00	-4.16	47106.463	4.0	53155.130	4.0
1652.8081	10.00	-1.33	163657.268	1.0	169705.925	0.0
1652.8838	28.01	-4.70	130470.900	4.5	136519.280	4.5
1652.9510	9.00	-4.40	117872.916	1.5	123921.050	2.5
1653.0150	30.02	.32	294035.100	2.0	300083.000	3.0
1653.0942	18.01	-1.12	195297.610	1.5	201345.220	1.5
1653.1297	18.01	-4.77	204417.230	1.5	210464.710	2.5
1653.4797	15.01	-.09	124947.600	2.0	130993.800	3.0
1653.4945	28.00	-.07	48715.200	4.0	54761.346	4.0
1653.5010	7.00	-.98	106778.337	1.5	112824.459	2.5
1653.6438	55.00	-.82	21765.650	0.0	27812.902	0.0
1653.7237	7.00	-4.51	105119.850	1.5	111165.158	1.5
1653.7533	9.00	-4.27	130374.860	1.5	136420.060	.5
1653.8736	27.00	-3.26	46671.940	2.5	52716.700	3.5
1653.9896	22.00	-.48	37538.804	2.0	43583.140	3.0
1654.0025	20.00	-1.57	42526.591	2.0	48570.880	2.0
1654.0025	20.00	-.64	42526.591	2.0	48570.880	3.0
1654.0025	20.00	-2.57	42526.591	2.0	48570.880	1.0
1654.0761	28.01	-4.97	127885.860	4.5	133929.880	3.5
1654.0898	9.02	.53	454097.660	1.5	460141.630	2.5
1654.1199	21.00	-1.95	15041.980	3.5	21085.840	3.5
1654.1235	26.00	-4.53	47960.973	4.0	54004.820	3.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1654.1637	17.01	-1.94	141010.000	2.0	147053.700	2.0
1654.2565	17.00	-1.41	91660.580	2.5	97703.941	2.5
1654.2660	16.00	-.53	67876.685	4.0	73920.011	3.0
1654.3389	17.00	-2.23	91660.580	2.5	97703.640	1.5
1654.3553	30.02	-.69	294005.800	5.0	300048.800	5.0
1654.5076	7.00	-.77	106868.635	3.5	112911.079	3.5
1654.5464	14.00	-2.44	57541.918	1.0	63584.220	1.0
1654.5469	7.00	-2.71	106758.731	.5	112801.031	1.5
1654.5497	25.00	-2.81	57305.620	3.5	63347.910	4.5
1654.5634	7.00	-3.20	110459.760	1.5	116502.000	.5
1654.5634	7.00	-3.23	110459.760	.5	116502.000	.5
1654.5634	7.00	-4.63	110459.760	1.5	116502.000	1.5
1654.6291	10.03	-4.67	635866.000	.5	641908.000	.5
1654.6305	7.00	-1.75	106868.635	3.5	112910.630	2.5
1654.6839	22.00	-1.65	34327.960	1.0	40369.760	0.0
1654.6965	14.00	-1.04	56503.346	2.0	62545.100	1.0
1654.7305	23.00	-3.70	31962.300	.5	38003.930	1.5
1654.7699	17.00	-4.68	88272.720	.5	94314.206	1.5
1654.8482	30.02	1.01	294005.800	5.0	300047.000	6.0
1654.9030	30.02	-.49	294035.100	2.0	300076.100	2.0
1654.9276	18.00	-.31	114147.750	1.0	120188.660	2.0
1654.9441	18.01	-.29	190592.170	1.5	196633.020	2.5
1654.9825	28.00	.27	50142.800	3.0	56183.510	4.0
1655.0153	18.00	-1.21	114147.750	1.0	120188.340	1.0
1655.0893	25.00	-2.76	51445.650	1.5	57485.970	2.5
1655.1219	14.00	-2.99	58311.659	0.0	64351.860	1.0
1655.1551	14.00	-2.15	57450.580	3.0	63490.660	3.0
1655.2017	18.01	-4.54	167307.920	.5	173347.830	1.5
1655.2674	28.01	-3.91	123434.600	4.5	129474.270	3.5
1655.4154	10.01	-.84	301855.710	2.5	307894.840	2.5
1655.4566	26.02	-.36	184374.590	4.0	190413.570	4.0
1655.4895	14.00	-2.74	57450.580	3.0	63489.440	2.0
1655.4922	7.00	-4.64	110402.150	3.5	116441.000	2.5
1655.5854	23.00	-4.94	33360.310	3.5	39398.820	3.5
1655.5992	18.00	-2.55	119444.880	2.0	125483.340	2.0
1655.6347	14.00	-.86	57450.580	3.0	63488.910	4.0
1655.6484	18.00	-1.29	119444.880	2.0	125483.160	3.0
1655.6515	26.00	-2.91	48122.913	3.0	54161.182	3.0
1655.7664	25.00	-4.96	57485.970	2.5	63523.820	2.5
1655.7746	18.00	-3.25	119444.880	2.0	125482.700	3.0
1655.8075	15.00	-1.30	75484.400	2.5	81522.100	2.5
1655.8262	28.00	-.21	48735.308	2.0	54772.940	3.0
1655.8564	14.00	-2.42	57541.918	1.0	63579.440	0.0
1655.8816	14.00	-2.11	57450.580	3.0	63488.010	3.0
1655.9612	6.00	-1.83	81769.790	2.0	87806.930	3.0
1655.9667	10.01	-2.90	312804.730	2.5	318841.850	3.5
1655.9858	28.01	-3.40	127885.860	4.5	133922.910	4.5
1655.9995	17.01	-3.08	131767.400	0.0	137804.400	1.0
1656.0434	18.01	-.90	196119.020	3.5	202155.860	2.5
1656.0599	22.00	-3.39	38544.380	3.0	44581.160	2.0
1656.1065	25.00	-3.21	56356.210	3.5	62392.820	4.5
1656.1065	20.01	.37	74484.920	.5	80521.530	1.5
1656.1120	27.00	-4.09	49484.050	3.5	55520.640	3.5
1656.1285	7.00	-4.22	110404.470	1.5	116441.000	1.5
1656.1285	7.00	-4.95	110404.470	1.5	116441.000	2.5
1656.1367	15.00	-4.78	74271.800	1.5	80308.300	2.5
1656.1422	7.00	-3.98	110404.520	2.5	116441.000	1.5
1656.1422	7.00	-4.95	110404.520	2.5	116441.000	2.5
1656.1641	17.01	-3.00	131768.000	2.0	137804.400	1.0
1656.1806	23.00	-4.77	31721.730	4.5	37758.070	4.5
1656.2327	7.00	-4.59	110544.850	2.5	116581.000	1.5
1656.2349	22.00	-4.60	30060.328	4.0	36096.470	3.0
1656.2821	28.01	-1.50	98467.250	3.5	104503.220	2.5
1656.4001	26.00	-4.00	48350.620	1.0	54386.160	1.0
1656.4303	28.01	-2.31	133973.330	2.5	140008.760	3.5
1656.5236	28.01	-4.93	51045.460	4.5	57080.550	3.5
1656.6307	7.02	-.68	311716.100	1.5	317750.800	1.5
1656.6568	26.00	-2.67	44664.061	2.0	50698.666	2.0
1656.6719	28.01	-3.47	127895.330	3.5	133929.880	3.5
1656.7487	15.00	-1.14	66343.330	.5	72377.600	.5
1656.7731	7.00	-1.83	106778.337	1.5	112812.518	2.5
1656.8190	17.00	-4.98	94468.857	.5	100502.871	1.5
1656.8531	24.00	-4.13	29584.620	2.0	35618.510	1.0
1656.8640	7.00	-3.31	110402.150	3.5	116436.000	2.5
1656.8750	18.01	-1.80	194996.490	1.5	201030.300	.5
1656.9300	28.01	-3.63	95332.530	2.5	101366.140	2.5
1656.9327	15.00	-2.31	70391.600	2.5	76425.200	2.5
1657.0096	24.00	-3.30	44068.720	3.0	50102.040	3.0
1657.0123	27.00	-2.19	48443.760	2.5	54477.070	3.5
1657.0453	23.00	-1.82	17054.870	2.5	23088.060	1.5
1657.0525	16.00	-1.96	67886.847	2.0	73920.011	3.0
1657.1040	17.00	-4.00	94314.206	1.5	100347.182	2.5
1657.1433	14.00	-1.98	56780.427	1.0	62813.260	1.0
1657.3035	22.00	-2.52	41985.830	3.0	48018.080	4.0
1657.3200	18.01	.21	203344.980	1.5	209377.170	2.5
1657.3576	28.00	-4.59	50789.500	4.0	56821.553	3.0
1657.4272	23.01	-2.99	30641.710	3.0	36673.510	2.0
1657.4492	18.00	-4.48	119760.220	1.0	125791.940	2.0
1657.4821	30.02	.28	294044.500	1.0	300076.100	2.0
1657.5151	7.00	-3.63	110404.520	2.5	116436.000	1.5
1657.5151	7.00	-4.00	110404.520	2.5	116436.000	2.5
1657.6333	28.01	-2.70	115209.850	3.5	121240.900	3.5
1657.6333	20.01	-2.59	83458.080	2.5	89489.130	2.5
1657.6333	20.01	-1.29	83458.080	3.5	89489.130	2.5
1657.6599	16.00	-1.12	67889.058	3.0	73920.011	3.0
1657.6965	27.00	-4.52	46671.940	2.5	52702.760	1.5
1657.8010	9.00	-3.32	130059.400	.5	136089.840	1.5
1657.8037	27.00	-3.81	46002.830	2.5	52033.260	1.5
1657.8449	22.00	-2.77	41906.510	2.0	47936.790	3.0
1657.9483	28.00	-1.16	50142.800	3.0	56172.704	3.0
1657.9631	20.01	-1.45	83458.080	2.5	89487.930	1.5
1657.9989	26.02	-.14	184374.590	4.0	190404.310	3.0
1658.0237	28.01	-4.53	121190.340	4.5	127219.970	3.5
1658.0866	16.00	-1.60	67884.577	1.0	73913.978	2.0
1658.1337	7.00	-2.83	106778.337	1.5	112807.567	.5
1658.1364	27.00	-3.52	40345.950	2.5	46375.170	1.5
1658.1805	9.00	-2.77	129937.330	1.5	135966.390	1.5
1658.2161	18.01	-3.89	208803.240	4.5	214832.170	3.5
1658.2382	26.00	-3.45	51945.310	2.0	57974.160	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1658.2398	12.00	-3.38	54706.536	1.0	60735.380	2.0
1658.3207	28.01	-4.10	93390.060	2.5	99418.610	3.5
1658.3840	28.01	-1.27	114874.880	2.5	120903.200	3.5
1658.3895	26.00	-3.65	51945.860	1.0	57974.160	2.0
1658.4500	15.00	-.42	66544.120	2.5	72572.200	1.5
1658.4852	28.00	-2.35	48671.900	3.0	54699.852	3.0
1658.5546	15.00	-2.88	74271.800	1.5	80299.500	1.5
1658.5644	26.00	-.66	48531.896	3.0	54559.560	3.0
1658.5749	26.00	-4.21	45333.834	2.0	51361.460	3.0
1658.5876	28.01	-4.86	127895.330	3.5	133922.910	4.5
1658.5895	28.00	-1.89	42790.027	2.0	48817.600	1.0
1658.5958	28.01	-1.48	100592.980	3.5	106620.530	3.5
1658.6230	14.00	-3.80	57328.789	1.0	63356.240	2.0
1658.6412	22.00	-4.39	29986.185	3.0	36013.570	2.0
1658.7031	26.00	-4.99	52682.930	2.0	58710.090	3.0
1658.7111	16.00	-1.01	67886.847	2.0	73913.978	2.0
1658.7194	16.00	-1.48	67883.208	0.0	73910.309	1.0
1658.7609	22.00	-2.49	42092.520	4.0	48119.470	5.0
1658.9294	28.00	-1.61	44112.192	1.0	50138.530	0.0
1658.9610	14.00	-2.42	56780.427	1.0	62806.650	0.0
1659.0279	15.00	-.47	66360.120	1.5	72386.100	2.5
1659.0962	16.00	-1.13	67884.577	1.0	73910.309	1.0
1659.1496	10.00	-1.40	162899.113	2.0	168924.651	2.0
1659.2014	28.01	-2.97	94283.940	4.5	100309.290	5.5
1659.2372	10.01	-2.19	312816.670	5.5	318841.890	4.5
1659.2593	10.01	-2.21	312816.750	4.5	318841.890	4.5
1659.2703	10.01	-2.32	312816.750	4.5	318841.850	3.5
1659.2705	26.00	-3.11	48350.620	1.0	54375.719	2.0
1659.2758	23.00	-4.80	31398.090	2.5	37423.170	1.5
1659.3162	28.00	-1.38	45281.152	3.0	51306.085	3.0
1659.3198	16.00	-.81	67889.058	3.0	73913.978	2.0
1659.4327	10.01	-.10	312804.040	1.5	318828.550	2.5
1659.4955	22.00	-4.18	13981.750	1.0	20006.032	2.0
1659.5666	12.00	-1.94	52556.206	0.0	58580.230	1.0
1659.6229	10.01	-1.41	312804.730	2.5	318828.550	2.5
1659.6229	10.01	-1.60	312804.730	2.5	318828.550	3.5
1659.6513	7.00	-4.76	105119.850	1.5	111143.567	.5
1659.6941	7.00	-1.95	106814.459	2.5	112838.020	1.5
1659.7214	16.00	-1.24	67886.847	2.0	73910.309	1.0
1659.7248	28.01	-4.47	116824.150	2.5	122847.600	3.5
1659.9331	7.00	-1.28	106778.337	1.5	112801.031	1.5
1659.9582	7.00	-1.79	106868.635	3.5	112891.238	3.5
1660.2683	7.00	-4.69	105143.680	2.5	111165.158	1.5
1660.2901	28.00	-3.38	50689.490	2.0	56710.889	2.0
1660.3615	24.00	-3.41	44080.900	2.0	50102.040	3.0
1660.3919	22.00	-3.04	34535.040	2.0	40556.070	1.0
1660.5008	17.00	-2.90	94482.236	2.5	100502.671	1.5
1660.5160	28.01	-4.88	102742.740	1.5	108763.320	.5
1660.5725	22.00	-4.17	14105.680	3.0	20126.055	3.0
1660.7011	10.00	-1.35	163707.721	1.0	169727.630	1.0
1660.7201	6.00	-1.38	81769.790	2.0	87789.630	1.0
1660.7422	24.00	-4.66	42538.810	3.0	48558.570	2.0
1660.8693	10.00	-2.26	166975.341	1.0	172994.640	2.0
1660.8828	18.01	-2.02	194861.270	2.5	200880.520	3.5
1660.9433	10.00	-.93	163708.599	2.0	169727.630	1.0
1660.9684	23.02	-4.89	155569.100	2.5	161588.040	3.5
1660.9971	17.00	-2.59	95706.534	1.5	101725.370	1.5
1661.0236	14.00	-2.21	56700.250	1.0	62718.990	0.0
1661.0371	14.00	-2.60	57468.239	2.0	63486.930	1.0
1661.0379	26.00	-3.62	48238.832	2.0	54257.520	2.0
1661.1009	22.00	-2.90	41895.150	5.0	47913.610	4.0
1661.2002	30.02	.31	294035.100	2.0	300053.200	2.0
1661.2196	26.00	-4.91	27394.676	3.0	33412.706	3.0
1661.2416	28.01	-4.14	115209.850	3.5	121227.800	2.5
1661.2444	7.00	-4.81	110349.060	2.5	116367.000	1.5
1661.2665	7.00	-4.90	110349.140	3.5	116367.000	2.5
1661.3383	13.01	-1.28	140091.200	1.0	146108.800	1.0
1661.3383	13.01	-.97	140091.200	2.0	146108.800	1.0
1661.3383	13.01	-1.67	140091.200	0.0	146108.800	1.0
1661.3714	15.00	-.45	66360.120	1.5	72377.600	.5
1661.4128	27.00	-3.38	46685.430	1.5	52702.760	1.5
1661.4283	28.00	-1.35	47686.625	0.0	53703.899	1.0
1661.4846	28.01	-4.71	130184.390	2.5	136201.460	3.5
1661.6144	22.00	-3.27	41854.010	1.0	47870.610	2.0
1661.6934	14.00	-1.62	56503.346	2.0	62519.660	2.0
1661.7608	7.00	-3.02	110485.930	1.5	116502.000	.5
1661.7829	7.00	-4.20	110486.010	2.5	116502.000	1.5
1661.8354	10.01	-.52	302961.070	1.5	308976.870	.5
1661.9478	26.00	-1.23	45061.287	3.0	51076.680	4.0
1661.9735	17.01	-3.09	131754.800	1.0	137770.100	0.0
1662.0254	26.00	-4.92	45551.748	1.0	51566.860	1.0
1662.0813	25.00	-4.85	50341.300	4.5	56356.210	3.5
1662.1189	12.00	-1.70	54248.809	0.0	60263.583	1.0
1662.1891	18.01	-4.86	202467.140	1.5	208481.660	.5
1662.1946	30.02	.92	294034.300	4.0	300048.800	5.0
1662.1946	25.00	-3.48	56490.790	2.5	62505.290	3.5
1662.2222	22.01	-2.99	25193.040	2.5	31207.440	2.5
1662.2269	22.00	-4.32	37659.927	3.0	43674.310	4.0
1662.2526	19.00	-2.05	27397.100	2.5	33411.390	1.5
1662.4019	17.00	-1.96	91660.580	2.5	97674.330	2.5
1662.4129	28.01	-4.18	121317.890	3.5	127331.600	2.5
1662.4677	17.00	-1.11	91660.580	2.5	97674.092	3.5
1662.4718	12.00	-1.83	54250.086	1.0	60263.583	1.0
1662.4718	12.00	-1.52	54250.086	1.0	60263.583	2.0
1662.5180	24.00	-1.99	42648.260	3.0	48661.590	3.0
1662.5401	19.00	-3.00	27398.140	1.5	33411.390	1.5
1662.5456	29.01	-.49	133727.870	2.0	139741.100	3.0
1662.5813	20.00	-2.61	36731.615	1.0	42744.716	2.0
1662.6684	28.00	-2.22	43258.792	4.0	49271.578	3.0
1662.7143	28.01	-2.69	100010.170	.5	106022.790	.5
1662.7624	26.00	-4.00	45281.816	2.0	51294.262	3.0
1662.8432	28.00	-2.17	50789.500	4.0	56801.654	5.0
1662.8609	19.00	-2.31	27398.140	1.5	33410.230	.5
1662.8886	18.01	-4.87	204113.710	1.5	210125.700	2.5
1662.9411	10.01	-2.23	312816.750	4.5	318828.550	3.5
1663.0553	20.00	-2.92	36731.615	1.0	42743.002	1.0
1663.1071	15.00	-2.89	68260.600	.5	74271.800	1.5
1663.2020	12.00	-3.00	54252.726	2.0	60263.583	1.0
1663.2020	12.00	-2.00	54252.726	2.0	60263.583	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1663.2020	12.00	-1.08	54252.726	2.0	60263.583	3.0
1663.2427	18.01	-3.70	200234.860	2.5	206245.570	3.5
1663.3008	15.00	-2.85	69894.600	1.5	75905.100	2.5
1663.4391	7.00	-3.48	106814.459	2.5	112824.459	2.5
1663.4779	7.00	-4.94	110349.140	3.5	116359.000	2.5
1663.5191	22.00	-1.99	18911.399	2.0	24921.110	1.0
1663.5609	9.00	-1.91	130141.650	1.5	136151.210	.5
1663.5803	29.01	-3.15	110365.980	2.0	116375.470	3.0
1663.7990	30.02	-1.04	294044.500	1.0	300053.200	2.0
1663.8683	26.02	-.54	184417.270	5.0	190425.720	5.0
1663.8959	22.01	-3.79	64884.650	2.5	70893.000	3.5
1663.8987	25.00	-4.69	37420.240	5.5	43428.580	4.5
1663.9574	26.00	-3.17	44415.057	4.0	50423.185	4.0
1664.0497	26.00	-4.45	47755.485	3.0	53763.280	3.0
1664.1314	28.01	-2.43	115108.090	2.5	121115.590	1.5
1664.1646	6.00	-3.53	81769.790	2.0	87777.170	3.0
1664.2497	18.00	-3.87	118651.447	1.0	124658.520	2.0
1664.3079	14.00	-2.64	57198.027	3.0	63204.890	2.0
1664.3209	17.00	-4.82	91660.580	2.5	97667.396	3.5
1664.3807	15.00	-2.66	74301.700	2.5	80308.300	2.5
1664.5051	26.00	-3.80	47834.529	5.0	53840.680	6.0
1664.6551	26.00	-2.63	51691.980	3.0	57697.590	4.0
1664.7355	14.03	.40	299676.950	.5	305682.270	1.5
1664.7801	28.00	-2.77	36600.805	2.0	42605.964	3.0
1664.7826	27.00	-3.29	46454.950	1.5	52460.100	2.5
1664.8796	7.01	-1.45	220716.000	3.0	226720.800	2.0
1664.9379	23.00	-4.55	31317.500	4.5	37322.090	3.5
1664.9711	27.00	-3.57	46260.020	1.5	52264.490	1.5
1664.9767	18.01	-3.15	184191.710	.5	190196.160	.5
1664.9878	20.01	.63	74521.750	1.5	80526.160	2.5
1665.1597	22.00	-4.70	39686.100	2.0	45689.890	3.0
1665.2124	7.00	-4.30	110498.400	2.5	116502.000	1.5
1665.2798	26.00	-.08	48221.323	1.0	54224.680	1.0
1665.2956	6.00	-2.87	81769.790	2.0	87773.090	2.0
1665.3234	17.01	-2.84	153571.000	1.0	159574.200	2.0
1665.4732	26.02	-4.62	200325.560	4.0	206328.220	3.0
1665.4899	15.01	-.66	124947.600	2.0	130950.200	2.0
1665.4899	13.01	-1.53	133914.100	2.0	139916.700	1.0
1665.4954	7.01	-1.87	196711.540	2.0	202714.120	1.0
1665.5107	10.00	-4.28	165828.175	2.0	171830.700	1.0
1665.5731	30.02	-.67	294123.700	3.0	300126.000	4.0
1665.6119	24.00	-3.26	35572.940	2.0	41575.100	3.0
1665.6174	9.00	-2.13	130149.070	.5	136151.210	.5
1665.6979	27.00	-4.74	48443.760	2.5	54445.610	2.5
1665.8589	28.01	-1.41	100619.260	4.5	106620.530	3.5
1665.8687	7.00	-.95	106758.731	.5	112759.966	1.5
1666.1088	23.01	-4.07	30673.140	2.0	36673.510	2.0
1666.1255	23.02	-2.32	155569.100	2.5	161569.410	1.5
1666.1532	25.00	-2.60	51305.410	2.5	57305.620	3.5
1666.2593	26.00	-3.78	47831.132	2.0	53830.960	3.0
1666.2726	28.01	-4.84	122837.330	4.5	128837.110	5.5
1666.2727	20.01	-.33	74521.750	1.5	80521.530	1.5
1666.3218	18.00	-3.37	118651.447	1.0	124651.050	1.0
1666.4226	18.01	-2.97	204585.640	2.5	210584.880	1.5
1666.4337	28.01	-4.31	116087.380	4.5	122086.580	3.5
1666.4429	26.00	-4.12	42532.729	3.0	48531.896	3.0
1666.4587	28.00	-3.59	42954.234	2.0	48953.344	1.0
1666.5087	22.00	-3.15	41995.390	6.0	47994.320	5.0
1666.5754	12.01	-1.62	108900.030	2.5	114898.720	1.5
1666.6199	12.01	-2.57	108900.190	1.5	114898.720	1.5
1666.6568	26.00	-4.54	45220.662	3.0	51219.059	3.0
1666.7104	10.00	-1.66	163707.721	1.0	169705.925	0.0
1666.7507	7.00	-2.10	106814.459	2.5	112812.518	2.5
1666.7643	28.01	-4.88	129988.050	2.5	135986.060	3.5
1666.7727	18.01	-4.14	204515.000	.5	210512.980	1.5
1666.8227	15.00	-3.84	74301.700	2.5	80299.500	1.5
1666.9005	18.01	-1.84	194883.000	3.5	200880.520	3.5
1666.9450	22.01	-4.60	24961.340	1.5	30958.700	2.5
1667.0125	28.00	-.82	48735.308	2.0	54732.425	2.0
1667.0450	10.03	-3.90	636475.000	1.5	642472.000	2.5
1667.0645	25.00	-4.54	50359.280	3.5	56356.210	3.5
1667.1145	10.01	-3.36	277325.600	1.5	283322.350	1.5
1667.1285	26.00	-4.63	47834.260	3.0	53830.960	3.0
1667.1562	12.01	-1.87	108900.190	1.5	114896.790	.5
1667.1646	25.00	-3.99	56490.790	2.5	62487.360	2.5
1667.1654	17.00	.40	95144.623	2.5	101141.190	3.5
1667.2135	28.00	-2.16	43089.636	5.0	49086.030	4.0
1667.2397	26.02	.06	184417.270	5.0	190413.570	4.0
1667.3092	22.00	-2.20	36096.470	3.0	42092.520	4.0
1667.3153	28.00	.41	48671.900	3.0	54667.928	4.0
1667.3398	27.00	-.93	41528.530	5.5	47524.470	4.5
1667.3870	28.01	-3.77	130331.780	1.5	136327.550	1.5
1667.4371	28.01	-2.89	115120.000	2.5	121115.590	1.5
1667.4760	24.00	-1.74	35398.020	4.0	41393.470	5.0
1667.5798	17.00	-3.70	95597.593	.5	101592.670	.5
1667.5959	17.00	-4.65	90487.870	3.5	96482.889	2.5
1667.7108	10.00	-4.68	167000.034	4.0	172994.640	3.0
1667.7108	10.00	-3.72	167000.034	4.0	172994.640	4.0
1667.8126	28.01	-3.99	116275.810	3.5	122270.050	3.5
1667.8238	30.02	.61	296875.600	2.0	302869.800	3.0
1667.9128	18.01	-.69	202149.110	2.5	208142.990	3.5
1667.9323	18.01	-3.69	200138.850	3.5	206132.660	4.5
1667.9545	26.00	-4.71	54555.450	4.0	60549.180	5.0
1668.0158	10.00	-2.83	167001.130	3.0	172994.640	2.0
1668.0158	10.00	-3.84	167001.130	3.0	172994.640	3.0
1668.0381	7.01	-.16	220495.360	2.0	226488.790	3.0
1668.0770	14.00	-.50	48264.292	3.0	54257.582	3.0
1668.1243	22.00	-3.21	41194.420	3.0	47187.540	2.0
1668.1716	18.01	-4.42	186340.480	1.5	192333.430	.5
1668.1828	28.01	-3.35	114052.040	3.5	120044.950	4.5
1668.2376	7.00	-.19	106868.635	3.5	112861.348	4.5
1668.2774	28.01	-4.19	130208.890	3.5	136201.460	3.5
1668.4103	18.00	-3.41	118651.447	1.0	124643.540	1.0
1668.4667	22.00	-2.28	39214.380	3.0	45206.270	3.0
1668.4724	13.00	-3.17	38929.405	1.5	44921.275	1.5
1668.7118	28.01	-3.50	112906.930	1.5	118897.940	2.5
1668.7703	21.00	-3.48	15041.980	3.5	21032.780	2.5
1668.9180	28.01	-3.97	129271.720	3.5	135261.990	4.5
1668.9238	13.00	-2.47	38929.405	1.5	44919.654	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1668.9374	13.01	-.13	143262.700	2.0	149252.900	3.0
1668.9653	18.01	-1.61	208921.200	1.5	214911.300	2.5
1669.0013	26.00	-4.73	49135.003	3.0	55124.974	3.0
1669.1520	28.01	-3.47	123434.600	4.5	129424.030	5.5
1669.1939	7.01	-1.15	220495.360	2.0	226484.640	2.0
1669.2133	26.00	-4.73	48460.120	0.0	54449.330	1.0
1669.3025	24.00	-4.58	44068.720	3.0	50057.610	2.0
1669.4614	24.00	-3.55	29584.620	2.0	35572.940	2.0
1669.4821	22.00	-4.68	36000.144	4.0	41988.390	3.0
1669.5283	24.00	-4.69	51401.240	5.0	57389.320	6.0
1669.5445	26.00	-4.70	45551.748	1.0	51539.770	2.0
1669.5814	18.01	-2.05	208923.410	2.5	214911.300	2.5
1669.7402	7.01	.11	220495.360	2.0	226482.680	3.0
1669.7419	13.00	-2.21	38933.961	2.5	44921.275	1.5
1669.7737	30.02	.79	296921.300	3.0	302908.500	4.0
1669.9489	7.00	-2.08	106814.459	2.5	112801.031	1.5
1669.9578	10.01	-4.74	318184.270	4.5	324170.810	3.5
1670.1140	7.01	-1.26	205350.180	2.0	211336.160	1.0
1670.1196	28.01	-4.79	130215.500	4.5	136201.460	3.5
1670.1950	27.00	-4.43	41104.960	2.5	47090.650	2.5
1670.2204	14.00	-2.48	54871.031	1.0	60856.630	1.0
1670.2926	29.01	-4.64	108014.660	3.0	114000.000	3.0
1670.2982	26.00	-3.07	54379.440	3.0	60364.760	3.0
1670.3521	22.00	-1.52	33655.853	2.0	39640.980	3.0
1670.3875	15.00	-2.04	75905.100	2.5	81890.100	2.5
1670.3931	28.01	-3.22	123434.600	4.5	129419.580	4.5
1670.4846	28.00	-.84	48715.200	4.0	54699.852	3.0
1670.5550	30.02	-.50	294123.700	3.0	300108.100	3.0
1670.6807	10.01	-2.23	312844.600	1.5	318828.550	2.5
1670.6834	27.00	-3.73	46872.740	3.5	52856.680	3.5
1670.6835	6.00	-4.43	81769.790	2.0	87753.730	2.0
1670.7532	25.00	.54	41403.930	2.5	47387.620	3.5
1670.7671	18.00	-3.91	119847.810	1.0	125831.450	0.0
1670.8716	7.00	-.51	106814.459	2.5	112797.725	3.5
1670.8755	12.00	-4.30	54676.438	3.0	60659.690	2.0
1670.9012	25.00	-2.98	57305.620	3.5	63288.780	3.5
1670.9152	26.00	-2.55	44551.325	3.0	50534.435	3.0
1670.9180	13.01	-1.55	143269.800	3.0	149252.900	3.0
1670.9180	13.01	-1.64	143269.800	3.0	149252.900	4.0
1670.9180	13.01	.14	143269.800	3.0	149252.900	4.0
1670.9244	10.00	-1.94	167011.563	2.0	172994.640	2.0
1670.9244	10.00	-3.69	167011.563	2.0	172994.640	3.0
1670.9515	12.00	-2.86	54676.710	3.0	60659.690	2.0
1670.9515	12.00	-4.37	54676.710	2.0	60659.690	2.0
1670.9794	27.00	-4.13	48443.760	2.5	54426.640	1.5
1671.0437	9.00	-2.96	130141.650	1.5	136124.300	.5
1671.1330	29.01	-.53	133727.870	2.0	139710.200	2.0
1671.2286	7.00	-.83	106778.337	1.5	112760.325	2.5
1671.2448	22.00	-3.04	41481.130	5.0	47463.060	4.0
1671.2615	14.01	-.89	122163.740	1.5	128145.610	2.5
1671.2783	14.01	-.74	122163.800	2.5	128145.610	3.5
1671.2783	14.01	-2.04	122163.800	2.5	128145.610	2.5
1671.3118	24.00	-4.70	51401.240	5.0	57382.930	5.0
1671.3174	7.00	-3.71	110385.330	3.5	116367.000	2.5
1671.3174	7.00	-3.58	110385.330	3.5	116367.000	3.5
1671.3289	7.00	-2.05	106778.337	1.5	112759.966	1.5
1671.4375	7.00	-4.30	110459.760	.5	116441.000	.5
1671.4375	7.00	-4.60	110459.760	.5	116441.000	1.5
1671.4375	7.00	-4.20	110459.760	1.5	116441.000	.5
1671.4375	7.00	-3.42	110459.760	1.5	116441.000	1.5
1671.4375	7.00	-4.01	110459.760	1.5	116441.000	2.5
1671.4711	28.01	-4.09	109846.000	3.5	115827.120	3.5
1671.5186	7.00	-4.94	110521.050	1.5	116502.000	.5
1671.5404	26.00	-4.92	48702.518	4.0	54683.390	4.0
1671.6472	28.01	-2.89	115209.850	3.5	121190.340	4.5
1671.6724	15.00	-1.64	69924.700	2.5	75905.100	2.5
1671.6967	17.00	-2.86	95612.357	1.5	101592.670	.5
1671.7283	7.01	-2.16	220716.000	3.0	226696.200	4.0
1671.7981	27.00	-3.42	46375.170	1.5	52355.120	.5
1671.8345	28.01	.73	116833.150	4.5	122812.970	3.5
1671.8457	28.01	-4.03	100389.520	2.5	106369.300	1.5
1671.8792	22.00	-2.60	40670.600	2.0	46650.260	3.0
1671.8957	13.00	.29	32949.804	.5	38929.405	1.5
1672.0050	18.01	-1.34	183675.570	3.5	189654.780	2.5
1672.0229	28.00	-2.47	51124.800	3.0	57103.946	3.0
1672.0442	28.01	-3.89	121240.900	3.5	127219.970	3.5
1672.0526	10.01	-4.56	318191.950	3.5	324170.990	2.5
1672.1130	14.00	-1.97	56690.903	2.0	62669.727	2.0
1672.2484	26.02	.23	184447.380	6.0	190425.720	5.0
1672.2704	14.00	-1.33	56690.903	2.0	62669.164	3.0
1672.2791	7.00	-2.79	106758.731	.5	112736.961	1.5
1672.3267	10.01	-3.85	277344.290	2.5	283322.350	1.5
1672.3924	26.00	-.22	47755.485	3.0	53733.310	3.0
1672.4050	23.00	-4.57	31962.300	.5	37940.080	.5
1672.4660	22.00	-4.06	14028.470	2.0	20006.032	2.0
1672.5533	10.01	-4.46	318183.730	5.5	324160.980	4.5
1672.6168	28.00	-2.85	50789.500	4.0	56766.523	4.0
1672.6456	14.00	-.88	56690.903	2.0	62667.823	3.0
1672.7044	24.00	-3.46	44080.900	2.0	50057.610	2.0
1672.8360	7.00	-4.97	110459.760	.5	116436.000	1.5
1672.8360	7.00	-3.96	110459.760	1.5	116436.000	1.5
1673.1187	9.00	-2.46	130149.070	.5	136124.300	.5
1673.2042	10.00	-2.28	165828.175	2.0	171803.100	2.0
1673.3512	30.02	.62	294123.700	3.0	300098.100	4.0
1673.3652	29.01	-4.53	130945.000	2.0	136919.350	3.0
1673.3792	30.02	-1.01	296852.700	1.0	302827.000	2.0
1673.4828	29.01	-2.56	135759.970	2.0	141733.900	2.0
1673.5557	7.00	-3.49	110385.330	2.5	116359.000	2.5
1673.5557	7.00	-5.00	110385.330	2.5	116359.000	3.5
1673.5557	7.00	-3.74	110385.330	3.5	116359.000	2.5
1673.5557	7.00	-3.76	110385.330	3.5	116359.000	3.5
1673.5753	30.02	-.11	294035.100	2.0	300008.700	1.0
1673.6033	26.00	-3.98	47420.215	5.0	53393.715	4.0
1673.6258	10.01	-2.07	318184.260	3.5	324157.680	2.5
1673.6593	13.01	-1.64	142849.200	3.0	148822.500	2.0
1673.6593	13.01	-3.07	142849.200	3.0	148822.500	3.0
1673.6593	13.01	-4.50	142849.200	3.0	148822.500	4.0
1673.6593	13.01	-3.24	142849.200	4.0	148822.500	3.0
1673.6593	13.01	-1.67	142849.200	4.0	148822.500	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1673.6593	13.01	-2.93	142849.200	4.0	148822.500	4.0
1673.6593	13.01	-3.07	142849.200	4.0	148822.500	4.0
1673.6593	13.01	-1.41	142849.200	5.0	148822.500	4.0
1673.9116	15.00	-.37	66834.500	1.5	72806.900	2.5
1673.9320	17.00	-1.53	94973.683	.5	100946.010	.5
1673.9396	13.01	-1.44	143280.600	4.0	149252.900	4.0
1673.9396	13.01	-1.58	143280.600	4.0	149252.900	4.0
1673.9396	13.01	.09	143280.600	4.0	149252.900	5.0
1673.9396	13.01	-3.00	143280.600	4.0	149252.900	3.0
1673.9508	22.00	-1.75	36013.570	2.0	41985.830	3.0
1673.9654	14.00	-2.37	57798.072	2.0	63770.280	1.0
1673.9788	9.00	-1.03	130141.650	1.5	136113.810	1.5
1673.9992	18.00	-1.20	107496.463	1.0	113468.550	2.0
1674.1195	26.00	-4.60	45220.662	3.0	51192.320	4.0
1674.3769	23.00	-3.32	20767.570	3.5	26738.310	4.5
1674.5396	28.01	-3.08	112906.930	1.5	118877.090	1.5
1674.5494	10.00	-3.20	165828.175	2.0	171798.300	1.0
1674.5564	28.01	.24	129367.910	6.5	135338.010	5.5
1674.5845	13.01	-.88	138811.900	2.0	144781.900	3.0
1674.5845	13.01	-1.79	138811.900	3.0	144781.900	3.0
1674.6378	27.00	-2.67	27497.060	2.5	33466.870	3.5
1674.6406	28.01	-4.15	72985.650	1.5	78955.450	1.5
1674.7312	14.00	-1.26	56700.250	1.0	62669.727	2.0
1674.9464	18.01	.18	200151.640	1.5	206120.350	2.5
1674.9520	24.00	-3.60	44088.920	1.0	50057.610	2.0
1675.0564	13.00	.55	32965.643	1.5	38933.961	2.5
1675.1069	14.00	-1.40	54528.220	2.0	60496.358	2.0
1675.2074	9.00	-1.77	130141.650	1.5	136109.430	.5
1675.2433	10.00	-1.01	167026.988	1.0	172994.640	2.0
1675.3000	25.01	-1.26	108409.800	5.0	114377.250	4.0
1675.3422	22.00	-1.37	42092.520	4.0	48059.820	3.0
1675.3843	25.01	-1.69	108410.100	4.0	114377.250	4.0
1675.4124	25.01	-2.51	108410.200	3.0	114377.250	4.0
1675.4882	27.00	-3.33	50578.730	3.5	56545.510	2.5
1675.6791	15.01	-.50	124947.600	2.0	130913.700	3.0
1675.7297	27.00	-4.76	49484.050	3.5	55449.970	2.5
1675.7718	27.00	-1.23	27497.060	2.5	33462.830	2.5
1675.7803	10.01	-2.46	318191.940	2.5	324157.680	2.5
1675.7831	10.01	-1.61	302057.260	.5	308022.990	.5
1675.7831	10.01	-3.86	318191.950	3.5	324157.680	2.5
1675.8000	7.00	-2.97	110385.330	2.5	116351.000	1.5
1675.8308	27.00	-4.84	48317.170	3.5	54282.730	2.5
1675.8448	6.00	-4.54	81769.790	2.0	87735.300	1.0
1675.8504	10.01	-4.70	318191.940	2.5	324157.430	1.5
1675.8757	15.00	-2.68	75104.600	.5	81070.000	1.5
1675.9039	28.01	-3.72	115085.360	3.5	121050.660	2.5
1675.9460	9.00	-1.94	130489.930	.5	136455.080	1.5
1676.0050	7.00	-3.16	110402.060	4.5	116367.000	3.5
1676.0219	12.01	.48	97455.120	.5	103420.000	1.5
1676.0303	7.00	-2.97	110402.150	3.5	116367.000	2.5
1676.0303	7.00	-3.90	110402.150	3.5	116367.000	3.5
1676.0471	24.00	-3.25	48839.900	1.0	54804.690	1.0
1676.0612	9.00	-1.77	130149.070	.5	136113.810	1.5
1676.1163	28.00	-.42	48735.308	2.0	54699.852	3.0
1676.2129	30.02	-.66	294044.500	1.0	300008.700	1.0
1676.2270	14.03	.10	299676.950	.5	305641.100	.5
1676.2411	22.00	-3.39	41906.510	2.0	47870.610	2.0
1676.2467	28.01	-1.24	129297.910	3.5	135261.990	4.5
1676.3360	13.00	-.40	32965.643	1.5	38929.405	1.5
1676.4027	10.00	-3.20	165828.175	2.0	171791.700	2.0
1676.4687	24.00	-4.68	21856.940	3.0	27820.230	3.0
1676.5888	26.00	-4.32	44415.057	4.0	50377.920	5.0
1676.6824	7.00	-3.08	110404.470	1.5	116367.000	.5
1676.6824	7.00	-4.71	110404.470	1.5	116367.000	1.5
1676.6965	7.00	-3.19	110404.520	2.5	116367.000	1.5
1676.6965	7.00	-4.42	110404.520	2.5	116367.000	2.5
1676.7190	7.01	-1.36	220716.000	3.0	226678.400	2.0
1676.7842	14.00	-2.17	57798.072	2.0	63760.240	3.0
1676.8020	18.00	-.79	118906.665	2.0	124868.770	3.0
1676.8427	23.00	-4.37	31541.180	3.5	37503.140	2.5
1676.8484	25.00	-3.47	57621.900	1.5	63583.840	1.5
1676.9890	28.01	-3.53	123434.600	4.5	129396.040	5.5
1677.0548	17.00	.51	95180.419	3.5	101141.625	4.5
1677.1550	22.00	-.52	33680.130	3.0	39640.980	3.0
1677.1772	17.00	-1.01	95180.419	3.5	101141.190	3.5
1677.1972	19.00	-2.63	27450.690	.5	33411.390	1.5
1677.2186	37.00	-2.60	25700.536	0.0	31662.788	0.0
1677.2929	9.00	-1.44	130149.070	.5	136109.430	.5
1677.3801	17.00	-2.46	84988.480	1.5	90948.530	1.5
1677.3970	7.01	-.11	220716.000	3.0	226675.990	3.0
1677.5237	19.00	-2.93	27450.690	.5	33410.230	.5
1677.5912	30.02	.38	294123.700	3.0	300083.000	3.0
1677.5940	23.00	-4.67	31268.150	3.5	37227.440	2.5
1677.6616	28.01	-3.99	130331.780	1.5	136290.830	.5
1677.6982	23.00	-3.71	37959.660	2.5	43918.580	2.5
1677.7086	14.00	-1.49	54528.220	2.0	60487.103	1.0
1677.7249	10.00	-2.09	165828.175	2.0	171787.000	3.0
1677.7815	7.00	-1.99	106778.337	1.5	112736.961	1.5
1677.8094	18.00	-2.67	118906.665	2.0	124865.190	2.0
1677.8516	18.00	-1.83	118906.665	2.0	124865.040	3.0
1678.0524	37.00	-1.65	25703.498	0.0	31662.787	0.0
1678.2558	7.00	-3.03	110402.060	4.5	116359.000	3.5
1678.2812	7.00	-4.20	110402.150	3.5	116359.000	2.5
1678.2896	28.01	-4.13	130331.780	1.5	136288.600	2.5
1678.3460	6.00	-1.24	80562.850	1.0	86519.470	1.0
1678.3891	10.00	-2.57	166606.333	0.0	172562.800	1.0
1678.4900	22.00	-4.46	13981.750	1.0	19937.859	1.0
1678.5703	7.00	-4.30	106868.635	3.5	112824.459	2.5
1678.5737	26.00	-4.29	47590.070	4.0	53545.882	3.0
1678.6785	26.01	-4.94	44232.510	4.5	50187.950	3.5
1678.7011	25.00	-4.32	51530.610	3.5	57485.970	2.5
1678.7152	10.01	-3.84	318202.370	1.5	324157.680	2.5
1678.7828	7.00	-4.04	110485.930	1.5	116441.000	.5
1678.7828	7.00	-3.91	110485.930	1.5	116441.000	1.5
1678.7828	7.00	-4.87	110485.930	1.5	116441.000	2.5
1678.8053	7.00	-3.94	110486.010	2.5	116441.000	1.5
1678.8053	7.00	-3.61	110486.010	2.5	116441.000	2.5
1678.8542	26.00	-4.50	47106.463	4.0	53061.280	5.0
1678.8781	10.00	-1.23	163012.621	1.0	168967.353	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1678.9351	7.00	-4.65	110404.470	1.5	116359.000	2.5
1678.9492	7.00	-4.40	110404.520	2.5	116359.000	2.5
1679.1917	28.01	-4.66	116893.980	2.5	122847.600	3.5
1679.2538	28.01	-4.55	115739.150	4.5	121692.550	4.5
1679.2780	37.00	-1.93	25700.536	0.0	31655.476	0.0
1679.3231	12.00	-3.10	54706.536	1.0	60659.690	2.0
1679.3243	24.00	-4.09	31280.350	5.0	37233.500	5.0
1679.3356	11.00	-4.50	34586.960	2.5	40540.070	2.5
1679.3356	11.00	-3.20	34586.960	3.5	40540.070	2.5
1679.3356	11.00	-3.36	34586.960	2.5	40540.070	1.5
1679.3956	26.00	-4.23	48304.623	2.0	54257.520	2.0
1679.4433	28.00	-1.17	48715.200	4.0	54667.928	4.0
1679.5274	18.01	-4.55	206245.570	3.5	212198.000	3.5
1679.5359	30.02	-1.05	294123.700	3.0	300076.100	2.0
1679.5584	18.01	-3.02	206245.570	3.5	212197.890	4.5
1679.5590	14.00	-3.38	57798.072	2.0	63750.390	1.0
1679.5697	29.01	.01	140984.200	1.0	146936.480	2.0
1679.7024	18.01	-.65	200151.640	1.5	206103.450	1.5
1679.8181	30.02	.03	296875.600	2.0	302827.000	2.0
1679.9084	12.01	-.22	97468.920	1.5	103420.000	1.5
1679.9205	26.00	-3.45	44676.963	4.0	50628.000	3.0
1679.9420	26.00	-.25	47377.909	4.0	53328.870	4.0
1679.9423	22.00	-3.09	41985.830	3.0	47936.790	3.0
1679.9733	28.01	-2.98	92325.850	3.5	98276.700	4.5
1679.9818	28.01	-2.59	114052.040	3.5	120002.860	3.5
1679.9931	12.01	.73	97468.920	1.5	103419.700	2.5
1680.0001	18.00	-1.57	118906.665	2.0	124857.420	2.0
1680.0425	18.00	-2.32	118906.665	2.0	124857.270	1.0
1680.0467	9.00	-4.49	130141.650	1.5	136092.240	2.5
1680.0778	29.01	-3.49	130386.400	2.0	136336.880	1.0
1680.1004	23.00	-4.44	38115.650	3.5	44066.050	3.5
1680.1315	9.00	-.79	130016.100	2.5	135966.390	1.5
1680.1936	7.00	-4.59	110485.930	1.5	116436.000	1.5
1680.1964	18.01	-1.58	183090.810	1.5	189040.870	1.5
1680.2162	7.00	-3.55	110486.010	2.5	116436.000	1.5
1680.2162	7.00	-4.01	110486.010	2.5	116436.000	2.5
1680.2763	7.00	-1.96	106996.032	1.5	112945.809	2.5
1680.3037	15.00	-.36	66544.120	2.5	72493.800	1.5
1680.3065	10.01	-.79	302057.260	.5	308006.930	.5
1680.3715	14.02	.81	243868.500	3.0	249817.940	4.0
1680.3794	7.00	-4.11	104765.740	4.5	110715.152	3.5
1680.3969	14.02	.71	243868.500	3.0	249817.850	4.0
1680.4421	27.00	-3.89	46685.430	1.5	52634.620	.5
1680.5608	6.00	-2.59	81769.790	2.0	87718.560	1.0
1680.6370	30.02	.13	296921.300	3.0	302869.800	3.0
1680.6766	27.00	-3.41	48334.370	1.5	54282.730	2.5
1680.7246	27.00	-4.08	43130.240	.5	49078.430	1.5
1680.7246	9.00	-3.13	130141.650	1.5	136089.840	1.5
1680.9072	14.00	-1.95	56978.256	1.0	62925.800	1.0
1680.9366	22.00	-1.60	35959.070	1.0	41906.510	2.0
1680.9479	15.00	-1.82	75353.400	1.5	81300.800	1.5
1681.0440	24.00	-3.44	49027.580	2.0	54974.640	2.0
1681.0456	14.00	-2.49	56503.346	2.0	62450.400	1.0
1681.0521	10.00	-1.47	167047.609	2.0	172994.640	2.0
1681.0521	10.00	-3.71	167047.609	2.0	172994.640	3.0
1681.0521	10.00	-4.47	167047.609	2.0	172994.640	3.0
1681.1061	10.01	-1.21	301948.000	1.5	307894.840	2.5
1681.1811	7.00	-1.94	106980.480	.5	112927.055	1.5
1681.1938	7.00	-4.25	110404.470	1.5	116351.000	.5
1681.1938	7.00	-3.50	110404.470	1.5	116351.000	1.5
1681.2079	7.00	-3.67	110404.520	2.5	116351.000	1.5
1681.3518	10.00	-2.62	167048.669	3.0	172994.640	2.0
1681.3518	10.00	-3.14	167048.669	3.0	172994.640	3.0
1681.3518	10.00	-3.57	167048.669	3.0	172994.640	4.0
1681.3722	17.00	-1.62	85735.091	1.5	91680.990	1.5
1681.3815	7.00	-1.25	106814.459	2.5	112760.325	2.5
1681.3917	16.01	-4.50	158826.870	2.5	164772.700	3.5
1681.4189	26.00	-3.75	49433.108	2.0	55378.842	2.0
1681.4830	7.00	-4.25	106814.459	2.5	112759.966	1.5
1681.5470	28.00	-1.03	42790.027	2.0	48735.308	2.0
1681.6231	14.00	-1.64	57541.918	1.0	63486.930	1.0
1681.6565	14.00	-3.72	54871.031	1.0	60815.925	2.0
1681.7512	28.00	.47	48715.200	4.0	54659.759	5.0
1681.8103	9.00	-.69	129659.500	3.5	135603.850	2.5
1681.8191	26.00	-3.45	47929.981	4.0	53874.300	5.0
1681.9065	28.01	-2.13	100078.780	1.5	106022.790	.5
1681.9094	17.01	-4.27	152233.100	2.0	158177.100	1.0
1681.9264	26.02	-4.93	200384.280	3.0	206328.220	3.0
1681.9354	26.00	-3.50	48122.913	3.0	54066.821	2.0
1681.9425	7.00	-4.74	106868.635	3.5	112812.518	2.5
1681.9518	6.00	-2.82	80562.850	1.0	86506.700	2.0
1682.0064	26.00	-2.60	48122.913	3.0	54066.570	4.0
1682.0254	6.00	-3.33	81769.790	2.0	87713.380	3.0
1682.1380	10.00	-2.90	166656.508	1.0	172599.700	0.0
1682.2422	14.00	-4.94	56978.256	1.0	62921.080	2.0
1682.2575	18.01	-2.71	206255.230	2.5	212198.000	3.5
1682.2886	21.00	-2.30	30573.100	.5	36515.760	1.5
1682.3028	7.00	-3.20	110498.390	3.5	116441.000	2.5
1682.3056	7.00	-4.92	110498.400	2.5	116441.000	1.5
1682.3934	23.00	-4.38	38123.760	4.5	44066.050	3.5
1682.4755	28.01	-3.92	98561.220	2.5	104503.220	2.5
1682.4840	28.01	-.30	129396.040	5.5	135338.010	5.5
1682.5378	23.02	-4.55	155981.500	3.5	161923.280	2.5
1682.5661	23.00	-4.85	19189.280	1.5	25130.960	2.5
1682.5944	27.00	-3.85	48317.170	3.5	54258.750	2.5
1682.6284	18.01	-1.72	204585.640	2.5	210527.100	2.5
1682.7304	17.01	-4.04	153633.100	1.0	159574.200	2.0
1682.7431	7.00	-4.31	105119.850	1.5	111060.905	.5
1682.7550	26.00	-4.63	47452.702	4.0	53393.715	4.0
1682.8012	27.00	-3.47	48217.320	3.5	54158.170	4.5
1682.8159	14.00	-1.39	48264.292	3.0	54205.090	2.0
1682.8238	9.00	-2.53	130149.070	.5	136089.840	1.5
1683.0119	22.00	-1.57	33700.874	4.0	39640.980	3.0
1683.1213	28.01	-2.48	99559.330	2.5	105499.050	3.5
1683.2517	25.01	-1.87	108409.800	5.0	114349.060	5.0
1683.2517	25.01	-1.09	108409.800	6.0	114349.060	5.0
1683.2686	7.00	-4.14	110501.800	3.5	116441.000	2.5
1683.2687	22.00	-2.73	29818.310	3.0	35757.510	4.0
1683.3367	25.01	-2.91	108410.100	4.0	114349.060	5.0
1683.4898	6.00	-2.60	81769.790	2.0	87708.210	2.0
1683.4955	15.00	-3.38	74271.800	1.5	80210.200	.5
1683.5975	28.01	-3.93	128732.030	1.5	134670.070	1.5
1683.6295	26.00	-2.57	44760.739	1.0	50698.666	2.0
1683.6372	24.00	-4.48	44080.900	2.0	50018.800	1.0
1683.7194	7.00	-4.42	110498.390	3.5	116436.000	2.5
1683.7279	28.01	-2.60	101144.630	3.5	107082.210	2.5
1683.7968	26.00	-3.87	45833.240	4.0	51770.577	3.0
1683.8235	26.00	-3.82	45281.816	2.0	51219.059	3.0
1683.9151	25.00	-4.38	57487.080	2.5	63424.000	3.5
1683.9292	9.00	-2.43	130489.930	.5	136426.800	1.5
1684.0087	9.00	-2.15	130141.650	1.5	136078.240	2.5
1684.1790	18.00	-4.02	119847.810	1.0	125783.800	1.0
1684.2130	9.00	-1.71	130059.400	.5	135995.270	.5
1684.2414	25.01	-1.47	108410.100	4.0	114345.870	3.0
1684.2697	25.01	-1.66	108410.200	3.0	114345.870	3.0
1684.2981	25.01	-2.31	108410.300	2.0	114345.870	3.0
1684.3341	26.00	-4.78	47812.104	4.0	53747.547	3.0
1684.3378	17.00	-4.50	94314.206	1.5	100249.636	2.5
1684.4996	27.00	-2.58	46329.630	2.5	52264.490	1.5
1684.5621	25.01	-1.73	108410.200	3.0	114344.840	2.0
1684.5904	25.01	-1.73	108410.300	2.0	114344.840	2.0
1684.6043	26.00	-4.88	47834.529	5.0	53769.020	4.0
1684.6614	27.00	-3.18	50611.220	3.5	56545.510	2.5
1684.6869	7.00	-3.56	110501.800	3.5	116436.000	2.5
1684.7778	25.01	-2.13	108410.300	2.0	114344.180	1.0
1684.9397	28.01	-4.72	109148.050	4.5	115081.360	4.5
1684.9627	7.00	-1.78	106758.731	.5	112691.960	.5
1684.9766	26.00	-3.78	48516.150	1.0	54449.330	1.0
1685.0276	15.00	-1.30	74271.800	1.5	80204.800	1.5
1685.0831	26.00	-3.72	47420.215	5.0	53353.020	6.0
1685.2322	27.00	-1.08	42269.320	4.5	48201.600	3.5
1685.3291	22.00	-1.19	34535.040	2.0	40466.979	2.0
1685.5894	7.00	-1.36	106996.032	1.5	112927.055	1.5
1685.7190	26.00	-4.18	47960.973	4.0	53891.540	3.0
1685.7920	26.00	-3.02	46137.140	3.0	52067.450	2.0
1685.8432	9.00	-2.35	130489.930	.5	136420.060	.5
1685.8545	9.00	-1.03	130221.120	1.5	136151.210	.5
1685.8631	28.01	-2.18	115870.280	2.5	121800.340	1.5
1685.9143	24.00	-3.68	44088.920	1.0	50018.800	1.0
1686.0223	30.02	-.29	294123.700	3.0	300053.200	2.0
1686.0252	18.00	-4.47	119847.810	1.0	125777.300	1.0
1686.1134	17.00	-.47	85244.330	.5	91173.510	1.5
1686.1219	19.00	-2.73	28127.850	2.5	34057.000	1.5
1686.1389	19.00	-2.57	28127.850	3.5	34056.940	2.5
1686.1389	19.00	-3.87	28127.850	2.5	34056.940	2.5
1686.1389	7.00	-3.39	106868.635	3.5	112797.725	3.5
1686.1639	10.00	-1.39	163038.351	2.0	168967.353	1.0
1686.2367	22.00	.18	37538.804	2.0	43467.550	2.0
1686.2794	7.00	-2.78	106980.480	.5	112909.076	1.5
1686.2896	15.00	-.28	66813.040	1.5	72741.600	1.5
1686.2896	6.00	-1.72	80562.850	1.0	86491.410	1.0
1686.5115	22.00	-4.52	41985.830	3.0	47913.610	4.0
1686.6242	26.00	-4.71	47812.104	4.0	53739.488	5.0
1686.6623	7.01	.37	220716.000	3.0	226643.250	4.0
1686.7335	26.00	-4.66	54879.720	2.0	60806.720	3.0
1686.7369	28.00	-1.16	44112.192	1.0	50039.180	2.0
1686.9216	8.00	-1.08	99092.980	1.0	105019.319	2.0
1687.0181	24.00	-3.82	44092.800	0.0	50018.800	1.0
1687.1132	8.00	-.86	99093.653	2.0	105019.319	2.0
1687.1201	17.00	-3.58	94663.670	1.5	100589.312	2.5
1687.1206	28.01	-2.02	131637.100	3.5	137562.740	3.5
1687.1434	22.00	-3.17	42092.520	4.0	48018.080	4.0
1687.1636	17.00	.16	85735.091	1.5	91660.580	2.5
1687.1662	28.01	-4.40	95332.530	2.5	101258.010	1.5
1687.2174	28.01	-4.25	121294.670	4.5	127219.970	3.5
1687.2744	26.01	-3.92	44232.510	4.5	50157.610	4.5
1687.3028	15.00	-.77	69980.100	3.5	75905.100	2.5
1687.4538	8.00	-.71	99094.849	3.0	105019.319	2.0
1687.4794	27.00	-3.58	48334.370	1.5	54258.750	2.5
1687.5250	7.01	-1.08	220716.000	3.0	226640.220	3.0
1687.5392	25.01	-4.84	62572.200	2.0	68496.370	1.0
1687.6090	10.00	-2.53	165828.175	2.0	171752.100	1.0
1687.7244	7.00	-1.07	106980.480	.5	112904.000	.5
1687.7421	14.00	-2.15	57798.072	2.0	63721.530	2.0
1687.7786	18.01	-.52	203344.980	1.5	209268.310	1.5
1687.8119	22.00	.27	37659.927	3.0	43583.140	3.0
1687.9837	28.01	.17	130751.030	5.5	136673.640	4.5
1688.0145	7.00	-1.69	106814.459	2.5	112736.961	1.5
1688.0265	24.00	-4.93	45113.220	3.0	51035.680	2.0
1688.0578	26.00	-2.85	48238.832	2.0	54161.182	3.0
1688.1861	27.00	-2.41	42796.670	1.5	48718.570	2.5
1688.2488	28.01	-4.82	112906.930	1.5	118828.610	2.5
1688.2993	22.00	-4.30	35559.627	5.0	41481.130	5.0
1688.4284	10.01	-1.60	302816.980	1.5	308738.030	1.5
1688.4570	27.00	-4.32	44782.130	4.5	50703.080	5.5
1688.5654	22.01	-4.62	25193.040	2.5	31113.610	3.5
1688.7422	7.00	-4.29	110521.050	1.5	116441.000	.5
1688.7422	7.00	-5.00	110521.050	1.5	116441.000	1.5
1688.7844	22.00	.39	37824.748	4.0	43744.550	4.0
1688.7850	30.02	.53	294188.300	2.0	300108.100	3.0
1688.8078	21.00	-2.34	30573.100	.5	36492.820	.5
1688.8563	23.00	-4.56	20202.490	2.5	26122.040	3.5
1688.8863	20.00	-2.23	42514.845	0.0	48434.290	1.0
1688.8905	25.00	-4.03	56567.930	1.5	62487.360	2.5
1688.9077	24.00	-4.82	35862.820	4.0	41782.190	4.0
1689.0133	10.01	-1.76	301855.710	2.5	307774.710	1.5
1689.0418	6.00	.56	72610.720	2.0	78529.620	3.0
1689.1148	14.00	-2.56	57017.496	2.0	62936.140	3.0
1689.1731	23.00	-6.08	14910.040	3.5	20828.480	2.5
1689.1759	28.01	-.91	129419.580	4.5	135338.010	5.5
1689.2330	27.00	-3.31	40827.770	1.5	46746.000	2.5
1689.2364	10.00	-2.92	165912.782	1.0	171831.000	0.0
1689.2987	15.00	-2.59	75484.400	2.5	81402.400	2.5
1689.3221	10.00	-4.08	165912.782	1.0	171830.700	1.0
1689.3889	14.00	-2.41	56503.346	2.0	62421.030	3.0
1689.4673	18.00	-4.68	118870.981	0.0	124788.390	1.0
1689.4785	23.00	-4.49	33481.450	3.5	39398.820	3.5
1689.5184	18.00	-4.66	119566.110	3.0	125483.340	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1689.5604	16.00	-2.68	74267.597	2.0	80184.680	1.0
1689.5699	18.00	-3.57	119566.110	3.0	125483.160	3.0
1689.6150	10.00	-2.21	166656.508	1.0	172573.400	2.0
1689.6413	30.02	-2.93	296953.000	2.0	302869.800	3.0
1689.6869	24.00	-3.38	29584.620	2.0	35501.260	3.0
1689.7012	18.00	-3.35	119566.110	3.0	125482.700	3.0
1689.7012	18.00	-2.20	119566.110	3.0	125482.700	4.0
1689.7184	28.01	-4.86	109675.720	.5	115592.250	1.5
1689.7761	14.00	-2.61	57798.072	2.0	63714.400	2.0
1689.8326	28.01	-1.25	130757.510	4.5	136673.640	4.5
1689.8611	16.00	-1.51	74268.650	1.0	80184.680	1.0
1689.8643	28.00	-2.24	43258.792	4.0	49174.811	4.0
1689.8897	24.00	-1.94	42908.570	4.0	48824.500	4.0
1689.9891	20.00	-2.83	42518.708	1.0	48434.290	1.0
1690.0074	10.00	-3.49	165912.782	1.0	171828.300	2.0
1690.0326	22.01	-2.31	64977.570	3.5	70893.000	3.5
1690.0889	16.00	-1.51	74267.597	2.0	80182.830	2.0
1690.1698	7.00	-3.67	110521.050	1.5	116436.000	1.5
1690.1698	7.00	-3.40	110521.050	1.5	116436.000	2.5
1690.2011	28.01	-3.28	95332.530	2.5	101247.370	2.5
1690.2054	28.00	-1.39	48817.600	1.0	54732.425	2.0
1690.2100	22.00	-4.42	35454.051	4.0	41368.860	4.0
1690.2383	9.02	-3.47	491407.750	4.5	497322.460	3.5
1690.2703	7.00	-1.26	106996.032	1.5	112910.630	2.5
1690.2869	22.00	-2.41	39149.260	2.0	45063.800	2.0
1690.2926	18.01	-2.07	184191.710	.5	190106.230	1.5
1690.3097	9.02	-3.58	491408.790	3.5	497323.250	2.5
1690.3666	7.00	-4.40	110710.739	2.5	116625.000	2.5
1690.3898	16.00	-1.03	74268.650	1.0	80182.830	2.0
1690.4184	18.01	-3.73	200234.860	2.5	206148.940	3.5
1690.4469	28.01	-.98	129424.030	5.5	135338.010	5.5
1690.4472	16.00	-1.38	74270.701	0.0	80184.680	1.0
1690.4527	28.01	-2.73	115785.060	1.5	121699.020	1.5
1690.4669	28.01	-4.78	129988.050	2.5	135901.960	2.5
1690.4753	17.00	-2.74	95313.749	1.5	101227.630	.5
1690.4861	16.00	-.76	74267.597	2.0	80181.440	3.0
1690.5356	9.02	-4.99	491408.790	3.5	497322.460	3.5
1690.5489	7.00	-1.78	106778.337	1.5	112691.960	.5
1690.5850	26.00	-.39	48221.323	1.0	54134.820	2.0
1690.6328	28.01	-3.00	94705.930	3.5	100619.260	4.5
1690.6813	14.01	.35	97972.350	.5	103885.510	1.5
1690.7145	7.00	-2.65	106996.032	1.5	112909.076	1.5
1690.7157	22.00	-3.26	41368.860	4.0	47281.900	3.0
1690.8186	26.00	-4.31	46137.140	3.0	52049.820	2.0
1690.8873	9.00	-.79	129772.830	2.5	135685.270	1.5
1691.0045	10.00	-1.94	163012.621	1.0	168924.651	2.0
1691.0674	26.00	-3.62	47363.390	6.0	53275.200	7.0
1691.0734	18.00	-3.90	118870.981	0.0	124782.770	1.0
1691.1046	18.01	-3.07	203501.800	2.5	209413.480	1.5
1691.3678	25.00	-3.25	44993.920	3.5	50904.680	2.5
1691.4136	20.02	-.33	365363.880	1.0	371274.480	2.0
1691.4505	22.00	-3.65	31914.277	5.0	37824.748	4.0
1691.4966	24.00	-2.60	42648.260	3.0	48558.570	2.0
1691.7052	17.00	-2.35	95313.749	1.5	101223.330	2.5
1691.7342	25.00	-4.03	57485.970	2.5	63395.450	3.5
1691.7519	10.00	-4.28	165912.782	1.0	171822.200	1.0
1691.7571	13.01	.43	133679.300	3.0	139588.700	4.0
1691.7571	13.01	.61	133679.300	3.0	139588.700	4.0
1691.7571	13.01	-3.63	133679.300	3.0	139588.700	3.0
1691.7602	22.00	-5.00	14028.470	2.0	19937.859	1.0
1691.9404	18.01	-1.39	208923.410	2.5	214832.170	3.5
1691.9461	7.00	-1.02	107037.069	2.5	112945.809	2.5
1692.0033	27.00	-4.56	48443.760	2.5	54352.300	3.5
1692.0492	28.01	-1.10	130765.260	3.5	136673.640	4.5
1692.0709	14.00	-2.69	57017.496	2.0	62925.800	1.0
1692.1671	7.00	-2.53	106996.032	1.5	112904.000	.5
1692.2239	24.00	-4.96	35501.260	3.0	41409.030	2.0
1692.2442	20.00	-2.52	42526.591	2.0	48434.290	2.0
1692.2442	20.00	-1.59	42526.591	2.0	48434.290	3.0
1692.2442	20.00	-3.52	42526.591	2.0	48434.290	1.0
1692.3757	7.00	-4.18	110459.760	1.5	116367.000	.5
1692.4072	27.00	-1.43	42811.440	3.5	48718.570	2.5
1692.4158	15.00	-2.96	66834.500	1.5	72741.600	1.5
1692.4436	14.00	-3.05	57583.657	4.0	63490.660	3.0
1692.4473	9.00	-4.40	130059.400	.5	135966.390	1.5
1692.4731	26.00	-2.93	48350.620	1.0	54257.520	2.0
1692.5505	28.01	-1.92	130147.870	.5	136054.500	1.5
1692.6474	10.00	-2.90	166656.508	1.0	172562.800	1.0
1692.6508	28.01	-4.43	131620.450	1.5	137526.730	2.5
1692.6651	10.01	-1.16	302831.800	.5	308738.030	1.5
1692.8170	30.02	-1.08	296921.300	3.0	302827.000	2.0
1692.8915	23.02	-3.51	155682.600	3.5	161588.040	3.5
1692.8981	14.00	-2.53	56690.903	2.0	62596.320	2.0
1692.9317	26.00	-2.42	54266.760	5.0	60172.060	4.0
1692.9451	14.00	-1.93	57583.657	4.0	63488.910	4.0
1693.0137	18.00	-2.83	117563.020	0.0	123468.034	1.0
1693.0294	26.00	-4.31	47834.529	5.0	53739.488	5.0
1693.0636	26.00	-4.84	48361.920	4.0	54266.760	5.0
1693.0922	29.01	-3.73	129759.600	1.0	135664.340	1.0
1693.2032	14.00	-4.27	57583.657	4.0	63488.010	3.0
1693.3302	22.00	-1.36	39302.360	4.0	45206.270	3.0
1693.3670	18.00	-3.59	115366.900	1.0	121270.682	2.0
1693.3905	26.00	-4.69	48475.740	3.0	54379.440	3.0
1693.4238	14.00	-1.65	57017.496	2.0	62921.080	2.0
1693.4249	28.01	-4.62	109038.840	1.5	114942.420	1.5
1693.4783	26.00	-4.94	48163.427	2.0	54066.821	2.0
1693.5310	28.01	-2.54	113753.040	4.5	119656.250	3.5
1693.5396	9.00	-2.72	130221.120	1.5	136124.300	.5
1693.5626	15.00	-.40	74301.700	2.5	80204.800	1.5
1693.5763	7.00	-2.25	106778.337	1.5	112681.389	2.5
1693.5999	21.00	-3.89	33056.190	3.5	38959.160	3.5
1693.6688	27.00	-3.17	46872.740	3.5	52775.470	4.5
1693.7606	28.01	-4.79	112906.930	1.5	118809.340	1.5
1693.8467	29.01	-.87	140984.200	1.0	146886.310	1.0
1693.9012	25.00	-4.41	57621.900	1.5	63523.820	2.5
1693.9356	22.00	-4.47	42092.520	4.0	47994.320	5.0
1693.9672	23.00	-4.82	33695.320	5.5	39597.010	4.5
1694.0553	18.00	-.40	106237.597	2.0	112138.980	2.0
1694.1021	29.01	-1.84	116080.460	3.0	121981.680	2.0
1694.1452	17.00	-2.13	85442.430	1.5	91343.500	2.5
1694.1713	26.00	-3.25	47929.981	4.0	53830.960	3.0
1694.2457	26.00	-3.78	46313.610	2.0	52214.330	1.0
1694.3350	7.00	-4.08	104810.330	2.5	110710.739	2.5
1694.3514	22.00	-5.00	14105.680	3.0	20006.032	2.0
1694.4007	18.01	-4.42	186074.350	2.5	191974.530	1.5
1694.4585	26.00	-4.92	48475.740	3.0	54375.719	2.0
1694.5280	28.00	-.99	43258.792	4.0	49158.529	5.0
1694.6937	24.01	-3.23	59130.510	1.5	65029.670	.5
1694.8115	10.01	-2.50	302839.280	2.5	308738.030	1.5
1694.9695	13.01	-2.10	139286.800	2.0	145185.000	1.0
1695.3202	7.00	-2.59	97770.150	.5	103667.130	1.5
1695.4179	14.02	.50	234387.640	1.0	240284.280	2.0
1695.5376	14.00	-1.76	56978.256	1.0	62874.480	2.0
1695.5422	22.00	-4.65	28638.832	2.0	34535.040	2.0
1695.5589	7.00	-4.04	110544.850	2.5	116441.000	1.5
1695.5589	7.00	-3.45	110544.850	2.5	116441.000	2.5
1695.5819	14.00	-2.01	56700.250	1.0	62596.320	2.0
1695.5876	28.01	-.50	101246.160	.5	107142.210	1.5
1695.6020	15.01	-.17	125129.700	3.0	131025.700	4.0
1695.7794	14.00	-1.18	57198.027	3.0	63093.410	2.0
1695.9069	22.00	-.55	35959.070	1.0	41854.010	1.0
1695.9357	28.01	-.90	101247.370	2.5	107142.210	1.5
1695.9759	30.02	-.49	294188.300	2.0	300083.000	3.0
1696.0910	19.00	-2.00	27397.100	2.5	33291.400	2.5
1696.0910	19.00	-.70	27397.100	2.5	33291.400	3.5
1696.1975	24.00	-3.36	49310.860	3.0	55204.790	3.0
1696.2378	7.00	-2.92	110473.210	4.5	116367.000	3.5
1696.2787	26.00	-4.37	48238.832	2.0	54132.480	1.0
1696.2810	28.01	-2.33	100389.520	2.5	106283.160	2.5
1696.3328	25.00	-5.00	37630.620	4.5	43524.080	3.5
1696.3904	19.00	-.85	27398.140	1.5	33291.400	2.5
1696.3961	23.00	-4.16	31721.730	4.5	37614.970	3.5
1696.4220	28.01	-3.67	109846.000	3.5	115739.150	4.5
1696.4825	22.00	-.46	36013.570	2.0	41906.510	2.0
1696.5256	6.00	-.41	79310.850	2.0	85203.640	2.0
1696.5544	9.00	-1.90	130221.120	1.5	136113.810	1.5
1696.7157	18.01	-1.05	204585.640	2.5	210477.770	3.5
1696.7906	28.01	-3.40	131670.870	2.5	137562.740	3.5
1696.8424	7.00	-4.90	106868.635	3.5	112760.325	2.5
1696.9173	28.01	-1.99	131063.850	.5	136955.280	.5
1696.9383	26.00	-1.21	47960.973	4.0	53852.330	4.0
1696.9720	7.00	-3.68	110459.760	1.5	116351.000	.5
1696.9720	7.00	-4.13	110459.760	.5	116351.000	.5
1696.9720	7.00	-4.60	110459.760	1.5	116351.000	1.5
1696.9979	7.00	-4.63	110544.850	2.5	116436.000	1.5
1697.0584	27.00	-3.37	46872.740	3.5	52763.680	3.5
1697.2350	18.00	-4.03	115366.900	1.0	121257.227	1.0
1697.2376	10.00	-3.29	165912.782	1.0	171803.100	2.0
1697.2803	28.01	-2.01	93528.440	3.5	99418.610	3.5
1697.3293	15.00	-2.76	75905.100	2.5	81795.100	3.5
1697.3333	7.00	-1.94	107037.069	2.5	112927.055	1.5
1697.3898	7.00	-3.77	106980.480	.5	112870.270	.5
1697.4988	14.00	-2.43	59034.988	3.0	64924.400	3.0
1697.5137	22.00	-.53	36096.470	3.0	41985.830	3.0
1697.7184	14.01	.05	97972.350	.5	103861.000	.5
1697.8165	9.00	-2.77	130221.120	1.5	136109.430	.5
1697.9055	14.00	-2.18	57468.239	2.0	63356.240	2.0
1697.9635	30.02	.15	294188.300	2.0	300076.100	2.0
1698.0177	14.00	-3.91	58774.368	3.0	64661.980	3.0
1698.0913	14.00	-.80	59037.043	4.0	64924.400	3.0
1698.1287	28.00	-2.68	45418.858	2.0	51306.085	3.0
1698.1798	28.01	-2.97	94705.930	3.5	100592.980	3.5
1698.2087	26.02	-4.98	200437.940	2.0	206324.890	2.0
1698.2520	13.01	-.82	142362.800	3.0	148249.600	4.0
1698.3962	10.00	-1.11	163038.351	2.0	168924.651	2.0
1698.3962	13.01	-1.35	142362.800	2.0	148249.100	3.0
1698.3962	13.01	-2.25	142362.800	3.0	148249.100	3.0
1698.4435	17.00	-4.01	95706.534	1.5	101592.670	.5
1698.5116	13.01	-1.88	142362.800	2.0	148248.700	2.0
1698.5116	13.01	-1.15	142362.800	1.0	148248.700	2.0
1698.5116	13.01	-3.42	142362.800	3.0	148248.700	2.0
1698.5338	14.00	-2.63	56780.427	1.0	62666.250	1.0
1698.5434	7.00	-3.04	110473.210	4.5	116359.000	3.5
1698.5578	16.00	-.97	75951.060	1.0	81836.800	2.0
1698.5837	29.01	-.86	115639.020	2.0	121524.670	3.0
1698.6219	10.00	-2.52	165912.782	1.0	171798.300	1.0
1698.6299	18.01	-4.74	200234.860	2.5	206120.350	2.5
1698.6876	28.01	-3.98	107737.810	1.5	113623.100	.5
1698.7049	16.00	-1.70	75951.570	2.0	81836.800	2.0
1698.7049	16.00	-.80	75951.570	2.0	81836.800	3.0
1698.8118	6.00	-.89	79318.780	1.0	85203.640	2.0
1698.8349	22.00	-4.36	41985.830	3.0	47870.610	2.0
1699.0023	28.01	-3.20	101258.010	1.5	107142.210	1.5
1699.0370	28.01	-3.13	131075.780	1.5	136959.860	2.5
1699.0889	25.00	-2.15	45754.270	3.5	51638.170	2.5
1699.1756	22.00	-.77	36208.920	4.0	42092.520	4.0
1699.1785	27.00	-3.25	46186.410	1.5	52070.000	2.5
1699.3605	7.00	-.19	104615.440	1.5	110498.400	2.5
1699.5222	13.01	-1.63	142849.200	4.0	148731.600	3.0
1699.5222	13.01	-3.34	142849.200	4.0	148731.600	3.0
1699.5222	13.01	-2.95	142849.200	3.0	148731.600	3.0
1699.5528	26.00	-4.32	49242.680	2.0	55124.974	3.0
1699.6083	26.00	-4.12	49242.872	3.0	55124.974	3.0
1699.6638	27.00	-1.47	28470.510	1.5	34352.420	1.5
1699.6745	28.00	-.75	42790.027	2.0	48671.900	3.0
1699.8591	28.00	-2.47	42585.296	4.0	48466.530	5.0
1699.8979	16.00	-1.71	75955.700	3.0	81836.800	3.0
1699.8979	16.00	-.64	75955.700	3.0	81836.800	4.0
1699.8979	16.00	-3.25	75955.700	3.0	81836.800	2.0
1699.9181	23.00	-4.61	33360.310	3.5	39241.340	2.5
1699.9297	7.00	-4.50	110486.010	2.5	116367.000	3.5
1699.9412	6.01	.41	178495.110	1.5	184376.060	2.5
1700.0511	27.00	-3.34	48546.070	1.5	54426.640	1.5
1700.0655	28.01	-1.81	99559.330	2.5	105439.850	1.5
1700.0800	28.01	-1.88	130174.030	1.5	136054.500	1.5
1700.1146	6.01	.57	178495.710	2.5	184376.060	3.5
1700.1146	6.01	-.73	178495.710	2.5	184376.060	2.5
1700.1636	28.00	-.86	44262.619	2.0	50142.800	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1700.2000	2.00	.64	185565.000	0.0	191446.661	0.0
1700.2766	25.00	-4.90	38934.940	2.5	44814.730	1.5
1700.2853	28.01	-1.96	94729.250	2.5	100609.010	2.5
1700.3402	27.00	-2.96	49025.420	1.5	54904.990	2.5
1700.3605	28.01	-2.42	131075.780	1.5	136955.280	.5
1700.5288	10.00	-2.27	165912.782	1.0	171791.700	2.0
1700.5687	27.00	-1.56	43199.650	2.5	49078.430	1.5
1700.6931	28.01	-1.76	100490.950	1.5	106369.300	1.5
1700.7655	6.00	-.65	79310.850	2.0	85188.950	1.0
1700.7915	25.00	-3.97	57705.830	.5	63583.840	1.5
1700.8638	29.01	-1.19	135664.340	1.0	141542.100	2.0
1700.9023	26.00	-1.05	47960.973	4.0	53838.600	3.0
1701.0395	12.00	-1.84	54250.086	1.0	60127.239	2.0
1701.0577	28.01	-1.37	112686.300	2.5	118563.390	3.5
1701.2508	26.00	-.37	48036.667	2.0	53913.090	2.0
1701.2922	55.00	-.44	21946.660	0.0	27824.545	0.0
1701.3212	28.01	.08	131686.560	4.5	137562.740	3.5
1701.3440	14.00	-2.76	57328.789	1.0	63204.890	2.0
1701.4196	18.00	-4.44	120188.660	2.0	126064.500	2.0
1701.5381	26.00	-3.96	47693.289	3.0	53568.720	2.0
1701.5558	18.01	-1.82	203501.800	2.5	209377.170	2.5
1701.6107	22.01	-3.76	24961.340	1.5	30836.520	1.5
1701.7672	14.02	-.04	234387.640	1.0	240262.280	1.0
1701.8040	12.00	-2.32	54252.726	2.0	60127.239	2.0
1701.8837	7.00	-1.25	106996.032	1.5	112870.270	.5
1701.9005	17.00	-3.24	96313.330	1.5	102187.510	2.5
1701.9496	7.00	-.58	107037.069	2.5	112911.079	3.5
1701.9526	30.02	-2.37	296953.000	2.0	302827.000	2.0
1701.9555	25.00	-3.64	51638.170	2.5	57512.160	1.5
1702.0453	26.00	-3.47	54491.080	3.0	60364.760	3.0
1702.0482	7.00	-4.64	110385.330	2.5	116259.000	1.5
1702.0482	7.00	-4.49	110385.330	3.5	116259.000	2.5
1702.0798	7.00	-1.19	107037.069	2.5	112910.630	2.5
1702.2099	14.00	-3.49	58774.368	3.0	64647.480	3.0
1702.2134	14.00	-3.81	58788.880	4.0	64661.980	3.0
1702.2656	13.00	-3.82	41319.380	3.5	47192.300	2.5
1702.3554	27.00	-2.75	45688.150	2.5	51560.760	2.5
1702.3986	14.00	-2.10	57468.239	2.0	63340.700	3.0
1702.4018	14.02	.89	234442.180	2.0	240314.630	3.0
1702.4128	14.00	-3.80	58774.368	3.0	64646.780	2.0
1702.4424	28.01	-.38	130801.330	4.5	136673.640	4.5
1702.5302	7.00	-3.65	107037.069	2.5	112909.076	1.5
1702.5729	26.00	-3.20	44551.325	3.0	50423.185	4.0
1702.7268	14.00	-4.14	58775.451	2.0	64646.780	2.0
1702.7297	28.00	-4.49	44475.158	2.0	50346.477	2.0
1702.7555	24.00	-4.86	33040.100	2.0	38911.330	3.0
1702.7700	23.00	-3.76	33527.640	2.5	39398.820	3.5
1702.7874	9.00	-4.17	130221.120	1.5	136092.240	2.5
1702.8115	22.00	-.64	33655.853	2.0	39526.890	2.0
1702.9470	7.00	-.64	104615.440	1.5	110486.010	2.5
1702.9702	7.00	-1.13	104615.440	1.5	110485.930	1.5
1703.0038	26.00	-2.68	44664.061	2.0	50534.435	3.0
1703.0108	28.01	-1.88	128799.720	.5	134670.070	1.5
1703.0630	6.00	-1.37	79318.780	1.0	85188.950	1.0
1703.0804	28.01	-2.32	130184.390	2.5	136054.500	1.5
1703.1091	11.00	-2.99	29172.839	2.5	35042.850	1.5
1703.1094	26.00	-4.21	48516.150	1.0	54386.160	1.0
1703.1236	11.00	-3.94	29172.889	1.5	35042.850	1.5
1703.2661	10.01	-3.25	302307.750	2.5	308177.220	1.5
1703.4838	9.00	-2.98	130221.120	1.5	136089.840	1.5
1703.5012	26.00	-2.61	51945.310	2.0	57813.970	3.0
1703.5157	7.00	-3.66	110498.390	3.5	116367.000	3.5
1703.5477	15.00	-2.17	76021.600	1.5	81890.100	2.5
1703.7422	28.01	-3.09	112906.930	1.5	118774.760	.5
1703.7770	23.00	-2.02	21603.170	4.5	27470.880	3.5
1703.8406	11.00	-3.24	29172.889	1.5	35040.380	.5
1703.9675	26.00	-4.51	45281.816	2.0	51148.870	3.0
1704.0035	7.00	-1.29	106814.459	2.5	112681.389	2.5
1704.0297	28.01	-4.22	128803.230	2.5	134670.070	1.5
1704.1023	18.01	-2.97	203730.860	1.5	209597.450	1.5
1704.2185	21.00	-4.15	30706.610	1.5	36572.800	2.5
1704.2737	26.02	-4.49	200395.330	5.0	206261.330	4.0
1704.2882	28.01	-.15	129396.040	5.5	135261.990	4.5
1704.3347	26.00	-4.32	54683.390	4.0	60549.180	5.0
1704.3347	6.00	-1.10	79323.160	0.0	85188.950	1.0
1704.3742	20.00	-3.83	42170.558	3.0	48036.212	3.0
1704.4626	7.00	-3.23	110501.650	4.5	116367.000	3.5
1704.5062	7.00	-4.59	110501.800	3.5	116367.000	2.5
1704.5102	20.00	-2.77	42171.026	4.0	48036.212	3.0
1704.5439	7.00	-3.71	110485.930	1.5	116351.000	.5
1704.5799	17.00	-.31	94482.236	2.5	100347.182	2.5
1704.5933	30.02	-.83	294188.300	2.0	300053.200	2.0
1704.5933	28.01	-3.45	116275.810	3.5	122140.710	4.5
1704.6834	55.00	-1.37	21946.660	0.0	27812.852	0.0
1704.7939	18.00	-2.95	118512.170	0.0	124376.380	1.0
1704.8259	15.01	-1.06	125129.700	3.0	130993.800	3.0
1704.8637	25.00	-4.19	56490.790	2.5	62354.760	1.5
1704.8666	6.00	-2.63	81769.790	2.0	87633.750	2.0
1704.8782	22.00	-.44	35959.070	1.0	41822.990	0.0
1704.8840	18.01	-3.07	149179.170	3.5	155043.070	2.5
1704.8957	26.00	-2.98	52110.300	1.0	57974.160	2.0
1704.9055	28.00	-3.57	43464.019	1.0	49327.845	2.0
1704.9974	10.01	-3.74	276511.820	.5	282375.330	1.5
1705.0556	28.01	-2.50	123434.600	4.5	129297.910	3.5
1705.1021	18.01	-4.82	186470.280	1.5	192333.430	.5
1705.1411	20.00	-3.87	42170.214	2.0	48033.230	2.0
1705.2103	22.00	-4.69	36065.750	3.0	41928.528	2.0
1705.2330	18.01	-.91	202149.110	2.5	208011.810	1.5
1705.2412	20.00	-2.97	42170.558	3.0	48033.230	2.0
1705.4454	18.00	-2.89	119212.930	3.0	125074.900	2.0
1705.4657	29.01	-1.26	115662.770	4.0	121524.670	3.0
1705.5763	26.00	-3.91	47420.215	5.0	53281.735	5.0
1705.5792	27.00	-3.96	48615.560	2.5	54477.070	3.5
1705.6210	20.00	-3.15	42170.214	2.0	48031.580	1.0
1705.6344	7.00	-1.89	97805.810	1.5	103667.130	1.5
1705.6432	28.01	-2.43	114052.040	3.5	119913.330	4.5
1705.8382	14.00	-2.45	58786.860	3.0	64647.480	3.0
1705.8411	7.00	-3.89	110498.390	3.5	116359.000	3.5
1706.0041	26.00	-3.69	54066.570	4.0	59926.620	5.0
1706.0129	22.00	-4.53	40384.580	1.0	46244.600	2.0
1706.0419	14.00	-4.97	58786.860	3.0	64646.780	2.0
1706.1150	28.00	-4.54	50851.220	1.0	56710.889	2.0
1706.1442	26.00	-3.25	48516.150	1.0	54375.719	2.0
1706.1934	15.00	-2.84	75905.100	2.5	81764.500	1.5
1706.3384	12.00	-2.72	54676.438	3.0	60535.340	2.0
1706.3384	12.00	-3.94	54676.438	3.0	60535.340	3.0
1706.3669	17.00	-3.73	95313.749	1.5	101172.553	1.5
1706.4176	12.00	-3.88	54676.710	2.0	60535.340	2.0
1706.4176	12.00	-2.97	54676.710	2.0	60535.340	1.0
1706.4176	12.00	-4.08	54676.710	3.0	60535.340	3.0
1706.4176	12.00	-2.64	54676.710	4.0	60535.340	3.0
1706.4263	14.00	-1.13	58788.880	4.0	64647.480	3.0
1706.6390	26.02	-4.59	200437.940	2.0	206295.810	1.0
1706.6798	28.01	-1.83	130815.910	3.5	136673.640	4.5
1706.7264	28.01	-4.73	131103.180	2.5	136960.750	2.5
1706.7351	7.00	-2.46	106980.480	.5	112838.020	1.5
1706.7701	18.01	-1.00	183797.360	2.5	189654.780	2.5
1706.7760	28.01	-2.15	130174.030	1.5	136031.430	2.5
1706.7905	7.00	-3.24	110501.650	4.5	116359.000	3.5
1706.8138	28.01	-2.55	130197.230	1.5	136054.500	1.5
1706.8342	28.01	-2.56	130691.350	1.5	136548.550	2.5
1706.8342	7.00	-4.26	110501.800	3.5	116359.000	3.5
1706.8575	9.00	-2.01	130221.120	1.5	136078.240	2.5
1706.8642	26.00	-4.80	45913.480	3.0	51770.577	3.0
1706.8890	17.00	-2.91	94732.300	3.5	100589.312	2.5
1706.8972	14.00	-1.78	57017.496	2.0	62874.480	2.0
1706.9362	7.00	-4.09	110402.150	3.5	116259.000	2.5
1706.9584	17.00	-4.27	94314.206	1.5	100170.980	1.5
1706.9858	28.01	-2.20	131103.180	2.5	136959.860	2.5
1707.0210	26.00	-3.29	48304.623	2.0	54161.182	3.0
1707.2190	14.02	-.01	234428.400	1.0	240284.280	2.0
1707.4199	12.00	-2.60	54248.809	0.0	60104.000	1.0
1707.4887	26.00	-.23	47755.485	3.0	53610.440	4.0
1707.4931	25.00	-3.45	57228.300	.5	63083.240	1.5
1707.5077	29.01	-.15	139028.200	2.0	144883.090	2.0
1707.5126	26.00	-4.95	48036.667	2.0	53891.540	3.0
1707.5135	27.00	-2.65	48571.770	.5	54426.640	1.5
1707.5193	26.02	-4.75	200325.560	4.0	206180.410	3.0
1707.5543	27.00	-3.05	46186.410	1.5	52041.140	.5
1707.5718	7.00	-4.63	110385.330	2.5	116240.000	1.5
1707.5718	7.00	-4.64	110385.330	2.5	116240.000	2.5
1707.5718	7.00	-3.99	110385.330	3.5	116240.000	2.5
1707.6272	7.00	-4.94	110404.520	2.5	116259.000	2.5
1707.7098	14.00	-1.44	56690.903	2.0	62545.100	1.0
1707.7381	15.01	-4.64	124947.600	2.0	130801.700	1.0
1707.7924	12.00	-2.12	54250.086	1.0	60104.000	1.0
1707.8547	6.00	-1.14	80562.850	1.0	86416.550	1.0
1707.8693	18.01	-.02	203344.980	1.5	209198.630	2.5
1707.8781	9.00	-1.83	130141.650	1.5	135995.270	.5
1707.9131	29.01	-1.82	141244.600	1.0	147098.100	0.0
1707.9998	14.00	-2.59	57372.297	2.0	63225.500	2.0
1708.0220	22.00	-3.04	41341.553	5.0	47194.680	4.0
1708.0421	14.00	-2.97	54528.220	2.0	60381.278	1.0
1708.0789	26.00	-4.89	48702.518	4.0	54555.450	4.0
1708.1903	18.01	-3.39	200393.020	4.5	206245.570	3.5
1708.2107	6.00	-3.00	83497.620	2.0	89350.100	2.0
1708.2545	7.00	-1.93	97770.150	.5	103622.480	.5
1708.5628	12.00	-1.90	54252.726	2.0	60104.000	1.0
1708.6253	6.00	-.57	75253.970	1.0	81105.030	1.0
1708.6429	30.02	.75	294275.000	3.0	300126.000	4.0
1708.6776	7.00	-2.08	106758.731	.5	112609.612	1.5
1708.6925	6.00	-.94	79318.780	1.0	85169.610	0.0
1708.6954	18.01	-.52	196305.040	3.5	202155.860	2.5
1708.7626	24.00	-4.14	33060.740	3.0	38911.330	3.0
1708.8853	28.01	-4.00	109269.830	1.5	115120.000	2.5
1709.0050	6.00	-.24	75255.270	2.0	81105.030	1.0
1709.0693	22.00	-2.36	34535.040	2.0	40384.580	1.0
1709.1044	22.00	-1.38	39214.380	3.0	45063.800	2.0
1709.1073	26.00	-4.87	43079.013	1.0	48928.423	2.0
1709.1103	18.01	-2.71	195031.120	2.5	200880.520	3.5
1709.1921	28.01	-4.04	127885.860	4.5	133734.980	3.5
1709.2534	25.00	-4.88	51638.170	2.5	57487.080	2.5
1709.2535	6.00	-1.11	75256.120	0.0	81105.030	1.0
1709.4025	17.01	-2.66	141350.000	3.0	147198.400	4.0
1709.4142	28.01	-4.90	131670.870	2.5	137519.230	2.5
1709.4756	25.00	-3.95	50341.300	4.5	56189.450	4.5
1709.5662	28.01	-1.80	128822.230	1.5	134670.070	1.5
1709.5837	28.01	-4.88	131928.770	4.5	137776.550	3.5
1709.6772	10.01	-2.79	302890.570	2.5	308738.030	1.5
1709.7504	14.02	.26	234415.070	0.0	240262.280	1.0
1709.7533	26.01	-4.25	93484.750	4.5	99331.950	4.5
1709.8001	28.01	-1.91	130184.390	2.5	136031.430	2.5
1709.8118	15.00	-1.48	69852.800	.5	75699.800	.5
1709.8223	26.00	-3.38	46410.366	1.0	52257.330	0.0
1709.8498	18.00	-1.85	119212.930	3.0	125059.800	2.0
1709.8556	27.00	-3.88	46186.410	1.5	52033.260	1.5
1709.8820	22.00	-1.57	33680.130	3.0	39526.890	2.0
1709.9873	13.01	-3.97	133440.400	3.0	139286.800	2.0
1710.0457	9.00	-1.50	130149.070	.5	135995.270	.5
1710.3559	25.01	-4.96	62572.200	2.0	68417.340	2.0
1710.3761	18.00	-2.87	119023.699	4.0	124868.770	3.0
1710.3761	18.00	-1.44	119023.699	4.0	124868.770	4.0
1710.4407	14.00	-1.50	56700.250	1.0	62545.100	1.0
1710.5958	7.00	-2.94	104615.440	1.5	110459.760	.5
1710.5958	7.00	-4.64	104615.440	1.5	110459.760	1.5
1710.6105	22.00	-4.38	42092.520	4.0	47936.790	3.0
1710.6336	28.00	-2.88	43933.428	2.0	49777.619	3.0
1710.7460	26.00	-3.81	48122.913	3.0	53966.720	2.0
1710.7779	14.00	-4.07	57798.072	2.0	63641.770	3.0
1710.7949	28.01	-.37	112719.750	3.5	118563.390	3.5
1710.7978	28.01	-1.31	115956.710	2.5	121800.340	1.5
1710.8300	28.01	-2.15	131093.300	4.5	136936.820	3.5
1710.8663	12.00	.14	43503.333	0.0	49346.729	1.0
1711.0593	14.00	-2.16	49028.294	0.0	54871.031	1.0
1711.1551	28.01	-.49	129419.580	4.5	135261.990	4.5
1711.1662	14.00	-3.93	58774.368	3.0	64616.740	2.0
1711.2459	14.02	.13	234442.180	2.0	240284.280	2.0
1711.2459	13.01	-.19	139286.800	2.0	145128.900	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1711.2787	7.00	-1.40	106996.032	1.5	112838.020	1.5
1711.2810	15.00	.02	66544.120	2.5	72386.100	2.5
1711.3748	27.00	-3.07	47128.960	2.5	52970.620	2.5
1711.4683	18.00	-2.61	119n23.699	4.0	124865.040	3.0
1711.7322	22.00	-.10	36013.570	2.0	41854.010	1.0
1711.7587	18.01	-2.74	196315.510	2.5	202155.860	2.5
1711.8817	28.01	-4.54	127895.330	3.5	133735.260	2.5
1711.8876	28.01	-3.82	130691.350	1.5	136531.260	1.5
1711.9278	26.00	-3.86	45061.287	3.0	50901.060	2.0
1711.9286	17.00	-1.54	84648.100	2.5	90487.870	3.5
1712.0570	28.00	-.65	48735.308	2.0	54574.640	1.0
1712.0612	10.00	-3.28	165912.782	1.0	171752.100	1.0
1712.1430	26.00	-2.84	47929.981	4.0	53769.020	4.0
1712.1632	27.00	-2.13	48443.760	2.5	54282.730	2.5
1712.1954	28.01	-3.31	128803.230	2.5	134642.090	3.5
1712.4594	28.01	-.22	129424.030	5.5	135261.990	4.5
1712.6442	6.00	-1.52	78199.070	2.0	84036.400	2.0
1712.6765	6.00	-3.20	78199.070	2.0	84036.290	1.0
1712.6824	23.00	-4.92	20767.570	3.5	26604.770	3.5
1712.7058	28.01	.67	123434.600	4.5	129271.720	3.5
1712.7584	18.00	-1.69	119n23.699	4.0	124860.640	4.0
1712.7584	18.00	-.39	119n23.699	4.0	124860.640	5.0
1712.9172	15.00	-2.35	69852.800	.5	75689.200	1.5
1713.0081	24.00	-3.33	35572.940	2.0	41409.030	2.0
1713.0962	28.01	-4.76	131124.960	3.5	136960.750	2.5
1713.1734	14.00	-4.34	54871.031	1.0	60706.558	1.0
1713.1872	27.00	-2.99	43242.950	2.5	49078.430	1.5
1713.1872	7.00	-4.29	110404.520	2.5	116240.000	1.5
1713.3270	14.00	-2.33	56978.256	1.0	62813.260	1.0
1713.3575	28.01	-1.82	131124.960	3.5	136959.860	2.5
1713.3751	28.01	-.57	101247.370	2.5	107082.210	2.5
1713.3956	28.01	-1.99	129503.240	4.5	135338.010	5.5
1713.4191	18.00	-4.23	120229.810	3.0	126064.500	2.0
1713.4429	14.00	-2.94	57295.881	0.0	63130.490	1.0
1713.4456	28.00	-3.00	50039.180	2.0	55873.780	2.0
1713.4955	18.00	-4.95	120230.070	2.0	126064.500	2.0
1713.5337	7.00	-.91	104664.100	1.5	110498.400	2.5
1713.5630	28.01	-2.87	130197.230	1.5	136031.430	2.5
1713.5954	24.00	-4.51	49370.700	3.0	55204.790	3.0
1713.5983	25.00	-4.46	57305.620	3.5	63139.700	2.5
1713.6571	14.02	-.34	234428.400	1.0	240262.280	1.0
1713.6712	7.00	-3.97	104881.320	3.5	110715.152	3.5
1713.7275	28.01	-3.15	131103.180	2.5	136936.820	3.5
1713.7522	17.00	-3.58	95700.874	3.5	101534.430	4.5
1713.8774	18.01	-2.62	157673.320	2.5	163506.450	3.5
1713.8862	30.02	.13	294275.000	3.0	300108.100	3.0
1713.8979	27.00	-2.47	50712.450	2.5	56545.510	2.5
1713.9450	15.00	-2.30	75689.200	1.5	81522.100	2.5
1714.0537	17.00	-3.05	91906.790	2.5	97739.320	1.5
1714.0948	27.00	-2.75	46329.630	2.5	52162.020	3.5
1714.1295	22.00	-4.23	28702.768	3.0	34535.040	2.0
1714.1695	17.00	-2.43	95700.874	3.5	101533.010	2.5
1714.2095	24.00	-4.30	48839.900	1.0	54671.900	1.0
1714.2300	7.00	-.21	104654.000	.5	110485.930	1.5
1714.3711	28.01	-3.47	128827.150	3.5	134658.600	4.5
1714.4226	7.00	-1.27	106778.337	1.5	112609.612	1.5
1714.4593	9.02	-3.83	491492.100	2.5	497323.250	2.5
1714.4975	9.00	-2.59	129772.830	2.5	135603.850	2.5
1714.5093	28.01	-.63	98467.250	3.5	104298.230	4.5
1714.6917	9.02	-3.70	491492.100	3.5	497322.460	3.5
1714.7452	17.00	-3.51	95400.731	2.5	101230.909	3.5
1714.8108	22.00	-3.99	31829.972	4.0	37659.927	3.0
1714.8328	14.00	-3.97	58786.860	3.0	64616.740	2.0
1714.8446	25.01	-4.42	62587.500	3.0	68417.340	2.0
1714.9684	7.00	-4.56	104881.320	3.5	110710.739	2.5
1715.0302	17.00	-2.23	85735.091	1.5	91564.300	.5
1715.0505	10.01	-1.85	302307.750	2.5	308136.890	1.5
1715.0820	26.00	-4.12	47452.702	4.0	53281.735	5.0
1715.1182	27.00	-3.41	49484.050	3.5	55312.960	4.5
1715.1412	14.00	-2.27	53362.240	3.0	59191.072	2.0
1715.1494	12.00	-3.39	54706.536	1.0	60535.340	2.0
1715.1506	15.00	-2.12	75705.400	3.5	81534.200	3.5
1715.1633	14.00	-1.65	56690.903	2.0	62519.660	2.0
1715.2603	7.00	-.95	106996.032	1.5	112824.459	2.5
1715.2700	14.00	-2.02	56978.256	1.0	62806.650	0.0
1715.3271	29.01	-4.48	130945.000	1.0	136773.200	1.0
1715.3892	26.00	-3.41	48238.832	2.0	54066.821	2.0
1715.4281	26.00	-4.87	48304.623	2.0	54132.480	1.0
1715.6103	28.00	-2.61	43258.792	4.0	49086.030	4.0
1715.6303	28.01	-4.46	131133.580	2.5	136960.750	2.5
1715.6547	7.00	-1.83	106980.480	.5	112807.567	.5
1715.6804	16.05	.04	546021.000	1.5	551848.000	2.5
1715.6863	28.01	-2.36	130227.520	2.5	136054.500	1.5
1715.7510	24.00	-2.66	35398.020	4.0	41224.780	4.0
1715.7658	10.01	-1.85	301948.000	1.5	307774.710	1.5
1715.8188	6.00	-2.49	80562.850	1.0	86389.380	2.0
1715.8323	26.00	-4.90	45913.480	3.0	51739.964	2.0
1715.8482	22.00	-2.28	39214.380	3.0	45040.810	4.0
1715.8924	28.01	-1.93	131133.580	2.5	136959.860	2.5
1716.0190	28.01	-4.13	130691.350	1.5	136517.200	.5
1716.1932	10.00	-1.50	152970.733	0.0	158795.992	1.0
1716.2400	28.01	-4.33	131928.770	4.5	137753.870	4.5
1716.2636	18.00	-4.11	115366.900	1.0	121191.920	2.0
1716.3460	9.00	-3.50	130141.650	1.5	135966.390	1.5
1716.3519	28.01	-2.90	107082.210	2.5	112906.930	1.5
1716.3608	17.00	-3.32	85244.330	.5	91069.020	.5
1716.4197	23.00	-3.09	21646.390	3.5	27470.880	3.5
1716.5052	28.01	-3.19	101258.010	1.5	107082.210	2.5
1716.6938	28.01	-3.46	131075.780	1.5	136899.340	2.5
1716.6968	28.01	-4.92	131075.780	1.5	136899.330	1.5
1716.7333	17.00	-2.03	95700.874	3.5	101524.300	2.5
1716.8000	30.02	-.80	294302.800	4.0	300126.000	4.0
1716.8235	25.00	-4.79	56567.930	1.5	62391.050	.5
1716.8294	30.02	-.86	294275.000	3.0	300098.100	4.0
1716.9772	17.00	-4.43	95400.731	2.5	101223.330	2.5
1716.9946	28.01	-2.17	130208.890	3.5	136031.430	2.5
1717.0742	25.00	-4.52	56567.930	1.5	62390.200	1.5
1717.1096	7.00	-3.73	110544.850	2.5	116367.000	3.5
1717.1804	7.00	-1.56	104664.100	1.5	110486.010	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1717.2010	28.01	-3.24	115081.360	4.5	120903.200	3.5
1717.2040	7.00	-1.81	104664.100	1.5	110485.930	1.5
1717.2895	28.01	-1.33	131115.280	4.5	136936.820	3.5
1717.3043	28.01	-1.41	128837.110	5.5	134658.600	4.5
1717.3134	13.00	-1.98	40271.965	.5	46093.424	1.5
1717.4812	6.00	-3.63	78215.510	3.0	84036.400	2.0
1717.4813	23.00	-4.16	31937.180	5.5	37758.070	4.5
1717.4824	17.00	-2.05	95700.874	3.5	101521.760	3.5
1717.5668	30.02	.84	294302.800	4.0	300123.400	5.0
1717.5813	7.00	-1.04	106980.480	.5	112801.031	1.5
1717.5964	15.01	-1.66	125129.700	3.0	130950.200	2.0
1717.6076	17.00	-.47	95700.874	3.5	101521.336	4.5
1717.6229	28.01	-2.04	130710.850	.5	136531.260	1.5
1717.6259	30.02	-1.87	294188.300	2.0	300008.700	1.0
1717.7144	14.02	-1.04	234442.180	2.0	240262.280	1.0
1717.9181	14.00	-1.71	56700.250	1.0	62519.660	2.0
1717.9195	18.00	-1.85	116660.054	1.0	122479.459	1.0
1718.1070	7.00	-.43	104683.030	2.5	110501.800	3.5
1718.2056	26.00	-3.63	45551.748	1.0	51370.184	2.0
1718.3108	14.01	-.65	113760.410	3.5	119578.490	3.5
1718.3108	14.01	.89	113760.410	3.5	119578.490	4.5
1718.3285	28.01	-2.66	130730.530	2.5	136548.550	2.5
1718.3610	14.01	.78	113760.580	2.5	119578.490	3.5
1718.4626	26.00	-3.32	47929.981	4.0	53747.547	3.0
1718.5352	9.00	-2.41	130149.070	.5	135966.390	1.5
1718.5914	22.00	-1.69	39149.260	2.0	44966.390	1.0
1718.7185	15.00	-2.88	75705.400	3.5	81522.100	2.5
1718.7273	7.00	-2.23	97805.810	1.5	103622.480	.5
1718.7480	28.01	-2.52	130730.530	2.5	136547.130	3.5
1718.7817	7.00	-1.10	106996.032	1.5	112812.518	2.5
1718.7941	13.00	-1.73	40277.872	1.5	46094.316	2.5
1718.8071	15.00	-2.64	75484.400	2.5	81300.800	1.5
1718.8281	28.00	-2.73	50458.187	1.0	56274.516	2.0
1718.8284	22.00	-3.75	38764.832	3.0	44581.160	2.0
1718.8662	23.01	-3.12	30673.140	2.0	36489.340	1.0
1718.8662	28.01	-2.10	128853.870	2.5	134670.070	1.5
1718.9253	16.05	.19	546032.000	2.5	551848.000	3.5
1718.9253	16.05	-1.11	546032.000	2.5	551848.000	2.5
1718.9933	23.01	-4.89	44657.990	2.0	50473.760	1.0
1719.0317	23.00	-3.70	20789.130	2.5	26604.770	3.5
1719.0577	13.00	-2.68	40277.872	1.5	46093.424	1.5
1719.1115	7.00	-1.94	104683.030	2.5	110498.400	2.5
1719.1145	7.00	-.40	104683.030	2.5	110498.390	3.5
1719.1973	28.01	-.44	122080.250	2.5	127895.330	3.5
1719.2239	27.00	-3.36	48443.760	2.5	54258.750	2.5
1719.2386	28.01	-3.12	128827.150	3.5	134642.090	3.5
1719.2623	27.00	-3.38	43263.570	1.5	49078.430	1.5
1719.3066	9.02	-.07	452577.900	.5	458392.610	1.5
1719.3862	14.00	-1.37	59109.959	3.0	64924.400	3.0
1719.4190	6.00	-2.89	78199.070	2.0	84013.400	2.0
1719.4214	14.00	-1.28	57541.918	1.0	63356.240	2.0
1719.4634	28.01	-4.41	131928.770	4.5	137742.950	5.5
1719.4634	6.00	-1.87	78199.070	2.0	84013.250	3.0
1719.4723	7.00	-3.46	110544.850	2.5	116359.000	3.5
1719.6621	14.00	-2.76	59110.892	2.0	64924.400	3.0
1719.8852	7.00	-.64	106868.635	3.5	112681.389	2.5
1720.0787	28.01	-2.69	95332.530	2.5	101144.630	3.5
1720.1054	28.01	-.48	131750.730	3.5	137562.740	3.5
1720.1498	28.01	-2.03	131124.960	3.5	136936.820	3.5
1720.1823	28.01	-2.13	130730.530	2.5	136542.280	3.5
1720.1912	14.00	-2.61	56733.380	0.0	62545.100	1.0
1720.3303	27.00	-3.68	44782.130	4.5	50593.380	4.5
1720.3806	27.00	-3.68	48615.560	2.5	54426.640	1.5
1720.4724	28.01	-4.19	116275.810	3.5	122086.580	3.5
1720.4801	26.00	-1.03	48531.896	3.0	54342.640	2.0
1720.5731	14.00	-1.59	49060.601	1.0	54871.031	1.0
1720.6886	22.00	.15	36096.470	3.0	41906.510	2.0
1720.7064	27.00	-3.92	46260.020	1.5	52070.000	2.5
1720.7105	10.00	-3.88	167449.464	1.0	173259.430	1.0
1720.8367	27.00	-2.64	46454.950	1.5	52264.490	1.5
1720.8465	26.00	-2.44	47929.981	4.0	53739.488	5.0
1720.9048	26.00	-2.52	54555.450	4.0	60364.760	3.0
1720.9404	29.01	-2.94	117747.450	3.0	123556.640	2.0
1720.9522	21.00	-1.72	30706.610	1.5	36515.760	1.5
1720.9641	29.01	-4.34	130945.000	2.0	136754.110	2.0
1721.0707	28.01	-1.41	122086.580	3.5	127895.330	3.5
1721.1724	26.00	-4.31	45294.830	5.0	51103.237	5.0
1721.2930	30.02	-.49	294275.000	3.0	300083.000	3.0
1721.4047	22.00	-1.06	37659.927	3.0	43467.550	2.0
1721.4441	23.00	-3.15	31268.150	3.5	37075.640	4.5
1721.4886	28.01	-1.58	128732.030	1.5	134539.370	2.5
1721.4886	28.01	-1.77	100475.820	3.5	106283.160	2.5
1721.6668	7.00	-1.60	106758.731	.5	112565.470	.5
1721.7821	28.01	-2.01	130710.850	.5	136517.200	.5
1721.7969	24.00	-4.48	48839.900	1.0	54646.200	0.0
1721.8651	22.00	-1.72	40844.190	3.0	46650.260	3.0
1721.8725	8.00	-3.04	102928.355	4.0	108734.400	3.0
1721.9037	7.00	-3.63	110349.060	2.5	116155.000	1.5
1721.9393	26.00	-4.10	47363.390	6.0	53169.210	6.0
1721.9464	10.00	-4.15	167449.464	1.0	173255.260	0.0
1721.9571	7.00	-2.73	104654.000	.5	110459.760	.5
1721.9571	7.00	-1.02	104654.000	.5	110459.760	1.5
1722.0164	28.01	-1.79	130225.870	3.5	136031.430	2.5
1722.0935	30.02	-1.35	294302.800	4.0	300108.100	3.0
1722.1232	15.00	-1.46	69894.600	1.5	75699.800	.5
1722.1380	21.00	-3.63	33154.010	2.5	38959.160	3.5
1722.1828	7.00	-1.63	106996.032	1.5	112801.031	1.5
1722.2745	28.01	-4.65	128853.910	4.5	134658.600	4.5
1722.3487	28.01	-4.39	116275.810	3.5	122080.250	2.5
1722.4899	26.00	-3.00	46410.366	1.0	52214.330	1.0
1722.5060	28.01	-2.01	130227.520	2.5	136031.430	2.5
1722.5570	14.00	.39	53387.334	1.0	59191.072	2.0
1722.6546	17.00	-.33	85735.091	1.5	91538.500	1.5
1722.7048	28.01	-2.81	131133.580	2.5	136936.820	3.5
1722.7330	8.00	-4.79	102928.355	4.0	108731.500	3.0
1722.7387	14.00	-2.43	53387.334	1.0	59190.460	1.0
1722.7645	11.00	-2.39	34548.731	2.5	40351.770	2.5
1722.7645	11.00	-1.09	34548.731	2.5	40351.770	3.5
1722.7749	11.00	-1.25	34548.766	1.5	40351.770	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1722.7820	7.00	-.81	104683.030	2.5	110486.010	2.5
1722.7969	23.00	-4.78	38115.650	3.5	43918.580	2.5
1722.8058	7.00	-3.11	104683.030	2.5	110485.930	1.5
1722.8325	25.00	-2.34	57485.970	2.5	63288.780	3.5
1722.9818	26.00	-4.18	47960.973	4.0	53763.280	3.0
1723.0552	28.01	-1.24	131093.300	4.5	136895.360	3.5
1723.0929	26.00	-.23	48036.667	2.0	53838.600	3.0
1723.1473	29.01	.47	133594.050	3.0	139395.800	4.0
1723.1618	14.00	-3.47	57328.789	1.0	63130.490	1.0
1723.1710	28.01	-2.85	130184.390	2.5	135986.060	3.5
1723.2278	14.00	-1.71	57295.881	0.0	63097.360	1.0
1723.3403	30.02	-.76	294275.000	3.0	300076.100	2.0
1723.3846	7.00	-1.42	107037.069	2.5	112838.020	1.5
1723.4473	6.00	.17	78215.510	3.0	84016.250	4.0
1723.4503	28.01	-3.37	130730.530	2.5	136531.260	1.5
1723.4592	15.00	-.84	70391.600	2.5	76192.300	1.5
1723.5305	28.01	-2.45	134208.300	2.5	140008.760	3.5
1723.7652	6.00	-1.85	80562.850	1.0	86362.520	1.0
1723.8009	18.00	-2.25	118512.170	0.0	124311.720	1.0
1723.8812	28.01	-.31	122086.580	3.5	127885.860	4.5
1723.8865	26.00	-4.90	48361.920	4.0	54161.182	3.0
1723.8931	7.00	-5.00	110459.760	1.5	116259.000	.5
1723.8931	7.00	-4.12	110459.760	1.5	116259.000	1.5
1724.1704	22.00	-4.62	41341.553	5.0	47139.860	4.0
1724.2439	24.00	-4.34	33113.270	4.0	38911.330	3.0
1724.2945	6.00	-2.82	78215.510	3.0	84013.400	2.0
1724.3391	6.00	-1.37	78215.510	3.0	84013.250	3.0
1724.5143	17.00	-1.80	91906.790	2.5	97703.941	2.5
1724.6038	17.00	-2.90	91906.790	2.5	97703.640	1.5
1724.6722	23.00	-2.98	31228.980	2.5	37025.600	3.5
1724.6782	27.00	-3.53	44782.130	4.5	50578.730	3.5
1724.8091	28.01	-2.23	131103.180	2.5	136899.340	2.5
1724.8151	28.01	-1.06	128818.410	6.5	134614.550	5.5
1724.8240	28.01	-1.59	128862.490	4.5	134658.600	4.5
1724.8657	22.00	-4.95	35685.160	6.0	41481.130	5.0
1724.9270	14.00	-1.81	57017.496	2.0	62813.260	1.0
1724.9579	7.00	-3.26	104664.100	1.5	110459.760	.5
1724.9579	7.00	-1.36	104664.100	1.5	110459.760	1.5
1725.0651	30.02	.32	294302.800	4.0	300098.100	4.0
1725.1088	7.00	-.98	106814.459	2.5	112609.612	1.5
1725.2735	15.00	-1.46	69894.600	1.5	75689.200	1.5
1725.2821	14.00	-.98	57328.789	1.0	63123.360	0.0
1725.4700	25.00	-3.58	51718.220	1.5	57512.160	1.5
1725.7351	16.01	-4.09	158666.450	1.5	164459.500	2.5
1725.8393	28.01	-1.61	130184.610	5.5	135977.310	4.5
1725.8632	26.00	-3.88	54379.440	3.0	60172.060	4.0
1725.9025	14.00	-2.54	59131.912	4.0	64924.400	3.0
1725.9853	28.01	-2.53	100490.950	1.5	106283.160	2.5
1725.9943	28.01	-3.63	131103.180	2.5	136895.360	3.5
1726.0837	27.00	-4.94	49197.740	4.5	54989.620	3.5
1726.1671	28.01	-2.38	128867.000	3.5	134658.600	4.5
1726.1755	26.00	-4.83	45913.480	3.0	51705.052	2.0
1726.3549	24.00	-4.37	49027.580	2.0	54818.550	2.0
1726.3606	26.00	-3.38	43137.472	3.0	48928.423	2.0
1726.3609	7.00	-4.75	110521.050	1.5	116312.000	2.5
1726.4891	24.00	-3.31	35618.510	1.0	41409.030	2.0
1726.7575	28.01	-3.47	130757.510	4.5	136547.130	3.5
1726.8297	20.00	-1.29	40690.435	0.0	46479.813	1.0
1726.9185	23.00	-3.05	31200.120	1.5	36989.200	2.5
1726.9186	7.00	-1.20	104615.440	1.5	110404.520	2.5
1726.9334	7.00	-2.47	104615.440	1.5	110404.470	1.5
1726.9454	28.01	-2.21	130757.510	4.5	136546.500	4.5
1727.0289	28.01	-1.63	128869.890	5.5	134658.600	4.5
1727.1513	28.01	-.91	129842.330	2.5	135630.630	2.5
1727.1548	20.00	-1.14	42743.002	1.0	48531.290	2.0
1727.1751	28.01	-2.12	128853.870	2.5	134642.090	3.5
1727.1871	28.01	-2.36	128853.910	4.5	134642.090	3.5
1727.1930	27.00	-3.19	46671.940	2.5	52460.100	2.5
1727.2519	18.00	-3.04	118651.447	1.0	124439.410	0.0
1727.3243	28.01	-1.00	129474.270	3.5	135261.990	4.5
1727.3533	26.00	-3.93	47606.092	5.0	53393.715	4.0
1727.3542	26.02	-4.59	199884.390	5.0	205672.010	4.0
1727.4130	20.00	-4.96	42744.716	2.0	48532.139	3.0
1727.4228	7.00	-3.77	107037.069	2.5	112824.459	2.5
1727.4616	28.01	-2.71	131093.300	4.5	136880.560	4.5
1727.4945	6.00	.45	78199.070	2.0	83986.220	3.0
1727.4995	7.00	-1.60	106778.337	1.5	112565.470	.5
1727.5183	28.01	-.76	129842.330	2.5	135629.400	3.5
1727.6198	29.01	.05	139028.200	2.0	144814.930	3.0
1727.6664	20.00	-1.88	42744.716	2.0	48531.290	2.0
1727.6664	20.00	-.97	42744.716	2.0	48531.290	3.0
1727.6798	20.00	-1.80	40474.241	1.0	46260.770	2.0
1727.7751	21.00	-2.57	30706.610	1.5	36492.820	.5
1727.7936	14.00	-2.33	57798.072	2.0	63584.220	1.0
1728.0278	14.00	-1.34	57017.496	2.0	62802.860	3.0
1728.0678	28.01	-4.30	131750.730	3.5	137535.960	3.5
1728.1723	7.00	-2.75	104716.920	3.5	110501.800	3.5
1728.2052	28.01	-3.78	130757.510	4.5	136542.280	3.5
1728.2172	7.00	-.52	104716.920	3.5	110501.650	4.5
1728.3938	20.00	-2.02	40474.241	1.0	46258.380	1.0
1728.4352	15.01	-1.07	125129.700	3.0	130913.700	3.0
1728.4502	7.00	-3.80	110521.050	1.5	116305.000	1.5
1728.4642	20.00	-3.42	42747.387	3.0	48531.290	2.0
1728.4642	20.00	-1.88	42747.387	3.0	48531.290	3.0
1728.4642	20.00	-.81	42747.387	3.0	48531.290	4.0
1728.5817	23.00	-2.41	31200.120	1.5	36983.630	1.5
1728.5847	15.00	-.19	66834.500	1.5	72618.000	.5
1728.6475	28.01	-3.45	130765.260	3.5	136548.550	2.5
1728.8059	22.00	-3.14	41255.400	4.0	47038.160	3.0
1728.9105	28.01	-.31	100078.780	1.5	105861.190	2.5
1728.9943	29.01	.45	135759.970	2.0	141542.100	2.0
1729.0720	28.01	-2.77	130765.260	3.5	136547.130	3.5
1729.0750	26.00	-3.27	48350.620	1.0	54132.480	1.0
1729.0989	26.00	-4.55	48475.740	3.0	54257.520	2.0
1729.1886	7.00	-2.90	104716.920	3.5	110498.400	2.5
1729.1916	7.00	-.50	104716.920	3.5	110498.390	3.5
1729.2195	28.00	-3.18	44565.100	3.0	50346.477	2.0
1729.2545	28.01	-1.58	129842.330	2.5	135623.590	1.5
1729.2604	28.01	-2.54	130765.260	3.5	136546.500	4.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1729.2963	27.00	-3.61	46260.020	1.5	52041.140	.5
1729.4040	14.00	-1.17	58893.400	3.0	64674.160	4.0
1729.4220	15.00	-2.11	69924.700	2.5	75705.400	3.5
1729.5506	28.01	-1.21	129842.330	2.5	135622.600	3.5
1729.5596	7.00	-4.95	110459.760	1.5	116240.000	2.5
1729.5656	28.01	-1.92	128827.150	3.5	134607.370	4.5
1729.5716	30.02	-.55	294302.800	4.0	300083.000	3.0
1729.6075	28.01	-2.05	131115.280	4.5	136895.360	3.5
1729.6149	18.00	-1.15	116660.054	1.0	122440.109	2.0
1729.6832	26.00	-3.78	44676.963	4.0	50456.790	3.0
1729.7511	28.01	-1.47	128862.490	4.5	134642.090	3.5
1729.7853	7.00	-1.60	106980.480	.5	112759.966	1.5
1729.8828	28.01	-1.75	130206.900	4.5	135986.060	3.5
1729.9247	28.01	-2.31	128818.410	6.5	134597.430	5.5
1730.0295	7.00	-3.94	110385.330	2.5	116164.000	1.5
1730.0295	7.00	-4.32	110385.330	2.5	116164.000	2.5
1730.0295	7.00	-4.51	110385.330	3.5	116164.000	2.5
1730.0295	7.00	-4.19	110385.330	3.5	116164.000	3.5
1730.0834	28.01	-3.93	131928.770	4.5	137707.260	3.5
1730.1523	9.02	-.03	452816.600	1.5	458594.860	2.5
1730.1702	30.02	-2.92	294275.000	3.0	300053.200	2.0
1730.2308	17.00	-4.11	94468.857	.5	100246.855	1.5
1730.3436	22.00	-1.97	40466.979	2.0	46244.600	2.0
1730.3550	10.00	-4.95	167052.657	2.0	172830.240	3.0
1730.3559	28.01	-1.08	129842.330	2.5	135619.910	1.5
1730.3978	28.01	-1.90	128837.110	5.5	134614.550	5.5
1730.4428	25.00	-2.21	45940.930	2.5	51718.220	1.5
1730.4787	28.01	-2.06	130208.890	3.5	135986.060	3.5
1730.4967	24.00	-3.19	49027.580	2.0	54804.690	1.0
1730.5236	28.01	-3.56	130765.260	3.5	136542.280	3.5
1730.5416	10.01	-1.67	302961.070	1.5	308738.030	1.5
1730.5566	22.00	.34	36208.920	4.0	41985.830	3.0
1730.5596	13.01	-2.27	120089.800	1.0	125866.700	1.0
1730.6105	7.00	-1.70	104683.030	2.5	110459.760	1.5
1730.6315	28.01	-2.24	131075.780	1.5	136852.440	1.5
1730.6329	10.00	-4.39	167052.645	1.0	172829.300	1.0
1730.6365	10.00	-4.07	167052.657	2.0	172829.300	1.0
1730.6611	28.00	-1.55	44262.619	2.0	50039.180	2.0
1730.7243	9.00	-4.02	130374.860	1.5	136151.210	.5
1730.7693	18.02	-4.00	240257.590	1.0	246033.790	2.0
1730.8023	7.01	.30	220716.000	3.0	226492.090	4.0
1730.8083	28.01	-2.01	101366.140	2.5	107142.210	1.5
1730.8292	28.01	-4.79	131750.730	3.5	137526.730	2.5
1730.8592	28.01	-4.90	106007.890	2.5	111783.790	3.5
1730.9041	28.01	-.88	129842.330	2.5	135618.080	2.5
1730.9192	17.01	-1.58	141350.000	3.0	147125.700	3.0
1730.9311	25.00	-3.67	57305.620	3.5	63081.280	2.5
1730.9881	28.01	-1.28	130184.610	5.5	135960.080	4.5
1730.9943	7.00	-2.81	107037.069	2.5	112812.518	2.5
1731.0525	10.00	-4.78	167052.645	1.0	172827.900	2.0
1731.0561	10.00	-3.82	167052.657	2.0	172827.900	2.0
1731.1020	28.01	-1.57	128867.000	3.5	134642.090	3.5
1731.1259	25.00	-4.86	51530.610	3.5	57305.620	3.5
1731.1529	14.00	-2.12	57450.580	3.0	63225.500	2.0
1731.1649	22.00	-4.37	41255.400	4.0	47030.280	3.0
1731.2156	14.00	-3.68	58311.659	0.0	64086.370	1.0
1731.2279	27.00	-3.07	46685.430	1.5	52460.100	2.5
1731.2789	15.01	-.02	123891.600	2.0	129666.100	2.0
1731.3148	28.01	-1.63	131124.960	3.5	136899.340	2.5
1731.3837	9.00	-2.89	130221.120	1.5	135995.270	.5
1731.4566	22.00	-4.33	41170.003	3.0	46943.910	2.0
1731.5277	7.00	-4.61	110385.330	3.5	116159.000	2.5
1731.5877	22.00	-2.42	39149.260	2.0	44922.730	3.0
1731.6567	27.00	-4.35	46260.020	1.5	52033.260	1.5
1731.7076	7.00	-4.90	110485.930	1.5	116259.000	.5
1731.7316	7.00	-4.47	110486.010	2.5	116259.000	1.5
1731.7316	7.00	-4.56	110486.010	2.5	116259.000	2.5
1731.7763	14.00	-1.74	59109.959	3.0	64882.800	2.0
1731.7871	10.00	-3.90	167052.645	1.0	172825.450	1.0
1731.7907	10.00	-3.46	167052.657	2.0	172825.450	1.0
1731.7916	7.01	-1.15	220716.000	3.0	226488.790	3.0
1731.7947	28.01	-4.81	131750.730	3.5	137523.510	3.5
1731.9276	26.00	-2.35	47960.973	4.0	53733.310	3.0
1731.9777	18.02	-3.96	240257.590	1.0	246029.760	1.0
1732.0512	10.00	-3.78	167052.645	1.0	172824.570	0.0
1732.0563	14.00	-2.99	59110.892	2.0	64882.800	2.0
1732.0821	17.00	-2.75	95400.731	2.5	101172.553	1.5
1732.1178	26.00	-4.35	48036.667	2.0	53808.370	1.0
1732.1217	28.01	-1.41	130205.620	5.5	135977.310	4.5
1732.2088	28.01	-2.73	130184.610	5.5	135956.010	5.5
1732.3469	6.00	.13	78215.510	3.0	83986.450	4.0
1732.3570	26.00	-4.70	45833.240	4.0	51604.146	3.0
1732.4159	6.00	-.45	78215.510	3.0	83986.220	3.0
1732.4549	15.00	-.08	67113.820	2.5	72884.400	2.5
1732.4609	28.01	-1.46	130215.500	4.5	135986.060	3.5
1732.4759	14.00	-1.98	58893.400	3.0	64663.910	4.0
1732.5059	28.01	-1.83	130206.900	4.5	135977.310	4.5
1732.5089	28.01	-2.41	131124.960	3.5	136895.360	3.5
1732.5150	24.00	-1.96	48558.570	2.0	54328.950	3.0
1732.5197	20.00	-1.66	40537.893	3.0	46308.257	2.0
1732.5510	28.01	-1.74	128837.110	5.5	134607.370	4.5
1732.5990	15.00	-1.93	75353.400	1.5	81123.500	2.5
1732.6621	28.01	-3.42	94705.930	3.5	100475.820	3.5
1732.6621	7.00	-1.23	104615.440	1.5	110385.330	2.5
1732.6711	20.01	-.93	81498.000	.5	87267.860	.5
1732.6891	13.01	-1.23	142362.800	2.0	148132.600	3.0
1732.6891	13.01	-2.13	142362.800	3.0	148132.600	3.0
1732.7276	14.00	.73	53362.240	3.0	59131.912	4.0
1732.7900	26.00	.50	48531.896	3.0	54301.360	4.0
1732.9023	7.00	-1.41	104716.920	3.5	110486.010	2.5
1732.9955	6.00	-1.85	80562.850	1.0	86331.630	1.0
1733.0375	25.02	-3.74	115711.600	4.5	121480.240	3.5
1733.0583	14.00	-.70	57328.789	1.0	63097.360	1.0
1733.0796	28.01	-4.88	131750.730	3.5	137519.230	2.5
1733.1036	28.01	-2.51	130208.890	3.5	135977.310	4.5
1733.1697	28.01	-1.03	130187.810	6.5	135956.010	5.5
1733.1799	20.00	-4.86	40537.893	3.0	46306.059	3.0
1733.2569	22.00	-2.44	34535.040	2.0	40302.950	3.0
1733.2869	23.02	-3.16	155801.600	1.5	161569.410	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1733.3681	17.00	-2.04	91906.790	2.5	97674.330	2.5
1733.4102	17.00	-1.41	94482.236	2.5	100249.636	2.5
1733.4192	27.00	-2.27	42434.230	2.5	48201.600	3.5
1733.4396	17.00	-2.36	91906.790	2.5	97674.092	3.5
1733.4853	7.00	-3.61	110544.850	2.5	116312.000	2.5
1733.5547	10.00	-2.98	167060.301	4.0	172827.220	3.0
1733.5574	28.01	-3.63	130757.510	4.5	136524.420	4.5
1733.5787	10.00	-4.53	167060.301	4.0	172827.140	4.0
1733.5805	10.00	-2.88	167060.307	5.0	172827.140	4.0
1733.6265	7.01	-3.26	220716.000	3.0	226482.680	3.0
1733.6596	28.01	-3.35	113172.960	4.5	118939.530	5.5
1733.6777	18.01	-3.16	203501.800	2.5	209268.310	1.5
1733.6867	28.01	-1.27	131796.260	2.5	137562.740	3.5
1733.7378	6.00	-.64	78249.940	4.0	84016.250	4.0
1733.7892	8.00	-4.86	102968.261	4.0	108734.400	3.0
1733.8175	8.00	-3.29	102968.355	2.0	108734.400	1.0
1733.8175	8.00	-4.02	102968.355	2.0	108734.400	2.0
1733.8175	8.00	-3.12	102968.355	3.0	108734.400	2.0
1733.8175	8.00	-4.02	102968.355	3.0	108734.400	3.0
1733.8190	26.01	-4.62	44446.890	3.5	50212.930	2.5
1733.8551	6.00	1.03	78249.940	4.0	84015.860	5.0
1733.9032	28.01	-2.42	131133.580	2.5	136899.340	2.5
1733.9044	20.00	-2.46	40537.893	3.0	46303.649	2.0
1733.9062	28.01	-3.96	131133.580	2.5	136899.330	1.5
1733.9333	22.01	-4.10	25193.040	2.5	30958.700	2.5
1733.9513	15.01	-.72	123345.000	0.0	129110.600	1.0
1734.0205	27.00	-2.37	46329.630	2.5	52095.000	3.5
1734.0475	28.01	-1.99	131115.280	4.5	136880.560	4.5
1734.1047	22.00	-4.42	40302.950	3.0	46068.040	4.0
1734.1077	14.02	.07	244871.470	1.0	250636.550	2.0
1734.2160	28.01	-3.06	107142.210	1.5	112906.930	1.5
1734.2340	28.01	-2.78	128818.410	6.5	134583.070	6.5
1734.2458	14.00	-1.60	57328.789	1.0	63093.410	2.0
1734.2464	17.00	-1.36	94482.236	2.5	100246.855	1.5
1734.2821	15.00	-.90	69924.700	2.5	75689.200	1.5
1734.3444	7.00	-2.07	106996.032	1.5	112760.325	2.5
1734.4441	7.00	-2.61	107037.069	2.5	112801.031	1.5
1734.4525	7.00	-1.88	106996.032	1.5	112759.966	1.5
1734.5229	24.00	-1.74	48661.590	3.0	54425.290	4.0
1734.6403	6.00	-1.31	78249.940	4.0	84013.250	3.0
1734.6616	8.00	-3.70	102968.261	1.0	108731.500	1.0
1734.6616	8.00	-4.55	102968.261	1.0	108731.500	2.0
1734.6616	8.00	-3.40	102968.261	2.0	108731.500	1.0
1734.6616	8.00	-3.70	102968.261	1.0	108731.500	0.0
1734.6616	8.00	-3.55	102968.261	2.0	108731.500	2.0
1734.6616	8.00	-4.55	102968.261	2.0	108731.500	3.0
1734.6616	8.00	-3.17	102968.261	3.0	108731.500	2.0
1734.6616	8.00	-3.53	102968.261	3.0	108731.500	3.0
1734.6616	8.00	-4.85	102968.261	3.0	108731.500	4.0
1734.6616	8.00	-2.98	102968.261	4.0	108731.500	3.0
1734.6616	8.00	-3.68	102968.261	4.0	108731.500	4.0
1734.6616	8.00	-2.81	102968.261	5.0	108731.500	4.0
1734.7176	17.00	-.98	85917.937	.5	91680.990	1.5
1734.7272	7.00	-1.85	107182.788	1.5	112945.809	2.5
1734.7814	10.00	-3.30	167846.689	2.0	173609.530	1.0
1734.8871	14.00	-4.59	58788.880	4.0	64551.370	4.0
1734.9323	27.00	-3.70	46502.150	.5	52264.490	1.5
1734.9443	15.00	-1.89	75705.400	3.5	81467.700	4.5
1734.9654	9.02	-2.98	384358.540	.5	390120.770	.5
1734.9750	26.00	-3.79	48304.623	2.0	54066.821	2.0
1735.0016	10.00	-4.29	167846.430	3.0	173608.540	3.0
1735.0058	10.00	-2.97	167846.444	4.0	173608.540	3.0
1735.0226	10.00	-3.11	167846.430	3.0	173608.470	2.0
1735.0527	7.00	-3.59	110402.060	4.5	116164.000	3.5
1735.0738	11.00	-4.34	34586.960	2.5	40348.830	2.5
1735.0738	11.00	-3.04	34586.960	3.5	40348.830	2.5
1735.0738	11.00	-3.19	34586.960	2.5	40348.830	1.5
1735.0759	10.00	-4.38	167846.677	3.0	173608.540	3.0
1735.0798	7.00	-4.81	110402.150	3.5	116164.000	2.5
1735.0819	10.00	-3.10	167846.677	3.0	173608.520	2.0
1735.0855	10.00	-4.43	167846.689	2.0	173608.520	2.0
1735.0919	28.01	-2.02	130215.500	4.5	135977.310	4.5
1735.1006	10.00	-4.25	167846.689	2.0	173608.470	2.0
1735.1009	28.01	-3.84	131133.580	2.5	136895.360	3.5
1735.1581	24.00	-2.56	44050.870	4.0	49812.460	3.0
1735.1952	26.00	-4.10	47960.973	4.0	53722.440	5.0
1735.1973	26.00	-3.89	48475.740	3.0	54237.200	4.0
1735.2828	10.00	-3.71	167069.064	3.0	172830.240	3.0
1735.2988	10.00	-3.87	167069.077	2.0	172830.200	2.0
1735.3208	29.01	-4.38	131312.700	3.0	137073.750	2.0
1735.3720	17.00	-4.55	84988.480	1.5	90749.360	2.5
1735.4394	7.00	-.85	107037.069	2.5	112797.725	3.5
1735.4443	28.01	-4.13	128853.910	4.5	134614.550	5.5
1735.4533	7.00	-4.60	110498.390	3.5	116259.000	2.5
1735.4545	17.00	-.79	91906.790	2.5	97667.396	3.5
1735.4774	18.01	-2.85	190106.230	1.5	195866.760	1.5
1735.5407	28.01	-2.06	128837.110	5.5	134597.430	5.5
1735.5699	10.00	-3.43	167069.077	2.0	172829.300	1.0
1735.5708	23.00	-2.28	31228.980	2.5	36989.200	2.5
1735.5798	28.01	-2.00	130225.870	3.5	135986.060	3.5
1735.5919	7.00	-4.75	110544.850	2.5	116305.000	1.5
1735.5931	28.00	-4.88	51343.800	2.0	57103.946	3.0
1735.6341	28.01	-2.24	130184.390	2.5	135944.400	3.5
1735.7787	7.00	-3.91	110404.470	1.5	116164.000	.5
1735.7787	7.00	-4.65	110404.470	1.5	116164.000	1.5
1735.7886	14.00	-2.81	56690.903	2.0	62450.400	1.0
1735.7938	7.00	-3.99	110404.520	2.5	116164.000	1.5
1735.8330	25.00	-4.18	51546.270	4.5	57305.620	3.5
1735.8902	28.01	-2.66	130765.260	3.5	136524.420	4.5
1735.9083	26.01	-4.10	58666.360	3.5	64425.460	2.5
1735.9113	6.00	-3.24	80562.850	1.0	86321.940	0.0
1735.9490	26.00	-3.88	45220.662	3.0	50979.627	4.0
1735.9535	28.01	-2.19	128855.600	6.5	134614.550	5.5
1735.9879	10.00	-3.21	167069.064	3.0	172827.900	2.0
1735.9918	10.00	-4.35	167069.077	2.0	172827.900	2.0
1736.0138	28.01	-.68	129503.240	4.5	135261.990	4.5
1736.0407	12.00	-4.08	54676.438	3.0	60435.099	2.0
1736.0771	28.01	-2.88	130227.520	2.5	135986.060	3.5
1736.1004	20.00	-2.31	41679.008	1.0	47437.471	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1736.1163	18.01	-2.80	190106.230	1.5	195864.640	2.5
1736.1218	22.00	-1.18	37824.748	4.0	43583.140	3.0
1736.1226	12.00	-2.68	54676.710	3.0	60435.099	2.0
1736.1226	12.00	-4.20	54676.710	2.0	60435.099	2.0
1736.1283	9.02	-.77	452577.900	.5	458336.270	.5
1736.1555	28.01	-1.10	131122.280	5.5	136880.560	4.5
1736.1646	26.00	-4.84	28604.610	2.0	34362.860	1.0
1736.1736	18.01	-.72	202253.590	1.5	208011.810	1.5
1736.1977	23.00	-2.04	31317.500	4.5	37075.640	4.5
1736.4058	23.00	-2.17	31268.150	3.5	37025.600	3.5
1736.4813	7.00	-4.62	110501.800	3.5	116259.000	2.5
1736.4903	28.01	-3.67	130751.030	5.5	136508.200	5.5
1736.5023	28.01	-4.10	130570.420	.5	136327.550	1.5
1736.5295	28.00	-1.85	48817.600	1.0	54574.640	1.0
1736.5868	7.00	-3.81	110402.150	3.5	116159.000	2.5
1736.5868	7.00	-4.78	110402.150	3.5	116159.000	3.5
1736.6894	28.01	-2.07	112686.300	2.5	118442.810	1.5
1736.6981	7.00	-2.10	106980.480	.5	112736.961	1.5
1736.7307	10.00	-4.57	167069.077	2.0	172825.450	1.0
1736.7558	7.00	-1.09	104716.920	3.5	110473.210	4.5
1736.8372	28.01	-.98	128827.050	7.5	134583.070	6.5
1736.8673	18.01	-3.35	200393.020	4.5	206148.940	3.5
1736.9374	17.00	-3.01	95786.752	2.5	101542.440	1.5
1736.9639	28.01	-3.28	131124.960	3.5	136880.560	4.5
1737.2085	6.00	-1.52	80562.850	1.0	86317.640	2.0
1737.2507	23.00	-3.24	31228.980	2.5	36983.630	1.5
1737.2597	28.01	-4.59	122140.710	4.5	127895.330	3.5
1737.3080	28.01	-1.60	130205.620	5.5	135960.080	4.5
1737.4258	7.00	-5.00	110485.930	1.5	116240.000	1.5
1737.4500	7.00	-4.70	110486.010	2.5	116240.000	1.5
1737.4500	7.00	-4.73	110486.010	2.5	116240.000	2.5
1737.4862	24.00	-3.08	44068.720	3.0	49822.590	2.0
1737.4953	13.02	.58	195621.720	.5	201375.560	1.5
1737.5828	27.00	-4.88	40621.620	1.5	46375.170	1.5
1737.6100	28.01	-1.45	128853.910	4.5	134607.370	4.5
1737.6130	7.01	.65	205350.180	2.0	211103.630	3.0
1737.6710	10.00	-4.47	167076.982	3.0	172830.240	3.0
1737.6737	10.00	-3.04	167076.991	4.0	172830.240	3.0
1737.6831	10.00	-3.17	167076.982	3.0	172830.200	2.0
1737.6946	28.01	-2.57	130206.900	4.5	135960.080	4.5
1737.7429	24.00	-2.85	42908.570	4.0	48661.590	3.0
1737.9755	18.01	-.24	195128.270	4.5	200880.520	3.5
1738.0329	28.01	-2.80	128862.490	4.5	134614.550	5.5
1738.0782	28.01	-2.81	115565.980	2.5	121317.890	3.5
1738.0949	18.00	-2.59	118906.665	2.0	124658.520	2.0
1738.1085	23.00	-4.65	36611.810	2.5	42363.620	3.5
1738.1961	14.02	-3.25	249103.900	2.0	254855.420	3.0
1738.2203	28.01	-3.00	130225.870	3.5	135977.310	4.5
1738.2475	10.01	-2.08	302425.870	1.5	308177.220	1.5
1738.2958	28.01	-3.08	130208.890	3.5	135960.080	4.5
1738.3080	18.01	-3.23	200880.520	3.5	206631.670	2.5
1738.3956	20.01	-.63	81517.000	1.5	87267.860	.5
1738.3986	24.00	-4.00	49453.940	4.0	55204.790	3.0
1738.4470	28.01	-1.35	130757.510	4.5	136508.200	5.5
1738.4715	14.00	-3.45	54871.031	1.0	60621.640	0.0
1738.5135	7.00	-.43	104654.000	.5	110404.470	1.5
1738.5377	28.01	-1.83	130205.620	5.5	135956.010	5.5
1738.5837	10.00	-3.94	167076.982	3.0	172827.220	3.0
1738.6103	14.00	-1.11	56700.250	1.0	62450.400	1.0
1738.6106	10.00	-3.83	167076.991	4.0	172827.140	4.0
1738.6737	27.00	-3.58	49197.740	4.5	54947.680	5.5
1738.8249	9.00	-1.42	130374.860	1.5	136124.300	.5
1738.8340	28.01	-3.71	113177.610	3.5	118927.020	4.5
1738.8703	25.00	-4.84	50818.640	.5	56567.930	1.5
1738.8794	28.01	-1.69	131103.180	2.5	136852.440	1.5
1738.8975	15.00	-1.19	75484.400	2.5	81233.600	3.5
1738.9247	28.01	-3.17	130206.900	4.5	135956.010	5.5
1738.9595	26.00	-3.44	47420.215	5.0	53169.210	6.0
1738.9823	18.01	-.89	195281.380	.5	201030.300	.5
1739.0333	28.00	-1.52	46522.965	2.0	52271.716	2.0
1739.0632	14.00	-1.82	53362.240	3.0	59110.892	2.0
1739.0881	25.00	-3.23	45156.110	2.5	50904.680	2.5
1739.1849	18.01	-1.39	209248.550	2.5	214996.800	3.5
1739.2031	24.00	-4.63	29824.750	3.0	35572.940	2.0
1739.2606	13.01	-.65	142958.900	1.0	148706.900	0.0
1739.2787	9.00	-1.76	129937.330	1.5	135685.270	1.5
1739.3456	14.00	-1.43	53362.240	3.0	59109.959	3.0
1739.4119	18.01	-2.94	199446.540	.5	205194.040	1.5
1739.4421	15.00	-2.70	72386.100	2.5	78133.500	2.5
1739.5850	26.00	-4.64	47606.092	5.0	53353.020	6.0
1739.6358	28.01	.74	122120.370	5.5	127867.130	4.5
1739.6601	28.01	-4.85	68156.570	1.5	73903.250	.5
1739.7812	18.01	-1.51	208921.200	1.5	214667.480	2.5
1739.7879	17.00	-2.01	95786.752	2.5	101533.010	2.5
1739.8659	30.02	-.94	294302.800	4.0	300048.800	5.0
1739.8750	18.01	-1.28	209251.460	3.5	214997.430	4.5
1739.8780	28.01	-3.18	128837.110	5.5	134583.070	6.5
1739.9901	28.01	-3.62	113177.610	3.5	118923.200	3.5
1740.0143	27.00	-3.89	47225.110	3.5	52970.620	2.5
1740.0658	18.01	-2.82	209251.460	3.5	214996.800	3.5
1740.0870	9.00	-3.18	130221.120	1.5	135966.390	1.5
1740.1173	28.01	-4.92	130801.330	4.5	136546.500	4.5
1740.1748	18.02	-3.28	240291.660	2.0	246036.640	3.0
1740.1899	18.00	-1.58	111818.090	1.0	117563.020	0.0
1740.2051	28.01	-3.71	128862.490	4.5	134607.370	4.5
1740.2545	26.00	-4.68	49135.003	3.0	54879.720	2.0
1740.2718	28.01	-2.37	128869.890	5.5	134614.550	5.5
1740.2809	24.00	-2.22	48507.560	1.0	54252.190	2.0
1740.2960	28.01	-1.98	130215.500	4.5	135960.080	4.5
1740.3551	18.00	-3.70	118906.665	2.0	124651.050	1.0
1740.3699	12.00	-3.06	54192.294	2.0	59936.630	1.0
1740.3909	7.00	-1.88	107182.788	1.5	112927.055	1.5
1740.4506	18.01	-.44	208923.410	2.5	214667.480	2.5
1740.5505	24.00	-3.89	44068.720	3.0	49812.460	3.0
1740.6172	28.01	-2.19	128853.910	4.5	134597.430	5.5
1740.6369	20.00	-2.11	42514.845	0.0	48258.300	1.0
1740.6899	18.01	-3.43	200880.520	3.5	206623.800	3.5
1740.7403	12.00	-3.23	54192.256	3.0	59935.370	2.0
1740.7403	12.00	-1.90	54192.256	3.0	59935.370	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1740.7403	12.00	-2.09	54192.256	3.0	59935.370	3.0
1740.7403	12.00	-.62	54192.256	3.0	59935.370	4.0
1740.7518	12.00	-1.85	54192.294	2.0	59935.370	2.0
1740.7518	12.00	-.87	54192.294	2.0	59935.370	3.0
1740.7518	12.00	-2.22	54192.294	2.0	59935.370	3.0
1740.7645	12.00	-.95	54192.336	1.0	59935.370	2.0
1740.8021	6.00	-2.22	78293.490	1.0	84036.400	2.0
1740.8051	15.00	-3.05	76021.600	1.5	81764.500	1.5
1740.8355	6.00	-.91	78293.490	1.0	84036.290	1.0
1740.9355	26.02	-4.60	200437.940	2.0	206180.410	3.0
1740.9385	26.01	-4.88	60270.370	3.5	66012.830	4.5
1741.0222	12.00	-2.34	54706.536	1.0	60448.720	0.0
1741.0234	23.00	-4.58	38323.870	4.5	44066.050	3.5
1741.0385	18.02	-3.50	240291.660	2.0	246033.790	2.0
1741.0589	26.00	-3.02	45061.287	3.0	50803.350	2.0
1741.1295	28.01	-1.18	128855.600	6.5	134597.430	5.5
1741.1720	24.00	-3.47	44080.900	2.0	49822.590	2.0
1741.1902	12.01	-.11	97455.120	.5	103196.750	.5
1741.1963	7.00	-4.18	110498.390	3.5	116240.000	2.5
1741.2660	28.01	-3.30	113172.960	4.5	118914.340	4.5
1741.2690	26.00	-3.27	48516.150	1.0	54257.520	2.0
1741.3205	15.01	-2.42	124433.100	1.0	130174.300	2.0
1741.3539	22.00	.48	36351.430	5.0	42092.520	4.0
1741.3964	28.01	-4.76	130801.330	4.5	136542.280	3.5
1741.4028	7.00	-2.60	106996.032	1.5	112736.961	1.5
1741.4874	6.00	-2.79	80782.510	1.0	86523.160	0.0
1741.5299	28.01	-3.00	130215.500	4.5	135956.010	5.5
1741.5454	17.00	-4.02	95400.731	2.5	101141.190	3.5
1741.5572	7.00	-.60	104664.100	1.5	110404.520	2.5
1741.5724	28.01	-3.61	128867.000	3.5	134607.370	4.5
1741.5724	27.00	-2.34	46329.630	2.5	52070.000	2.5
1741.5724	7.00	-.70	104664.100	1.5	110404.470	1.5
1741.5727	22.00	-4.95	35454.051	4.0	41194.420	3.0
1741.5781	28.00	-.40	49032.589	2.0	54772.940	3.0
1741.6021	20.00	-2.38	42518.708	1.0	48258.980	2.0
1741.6518	26.00	-4.97	45964.944	2.0	51705.052	2.0
1741.7756	28.01	-2.22	131796.260	2.5	137535.960	3.5
1741.7939	18.01	-1.72	200393.020	4.5	206132.660	4.5
1741.8084	20.00	-2.72	42518.708	1.0	48258.300	1.0
1741.8363	13.01	.80	132819.700	3.0	138559.200	4.0
1741.8606	28.01	-4.32	68154.310	1.5	73893.730	1.5
1741.8697	18.01	-.25	183675.570	3.5	189414.960	3.5
1741.9605	17.00	-.55	95313.749	1.5	101052.840	2.5
1742.0002	10.01	-.06	303237.910	1.5	308976.870	.5
1742.0032	9.00	-3.11	130374.860	1.5	136113.810	1.5
1742.0518	23.01	-4.58	44159.430	2.0	49898.220	2.0
1742.0594	26.00	-3.94	31307.235	4.0	37046.000	4.0
1742.1551	22.00	-1.26	39302.360	4.0	45040.810	4.0
1742.2097	28.01	-2.00	117074.700	3.5	122812.970	3.5
1742.2310	7.00	-4.63	110501.800	3.5	116240.000	2.5
1742.2574	14.00	-1.16	57198.027	3.0	62936.140	3.0
1742.2613	18.02	-4.11	240291.660	2.0	246029.760	1.0
1742.3069	7.00	-4.74	110521.050	1.5	116259.000	.5
1742.3069	7.00	-3.91	110521.050	1.5	116259.000	2.5
1742.3827	15.00	-.52	66834.500	1.5	72572.200	1.5
1742.4131	15.00	-.68	74271.800	1.5	80009.400	.5
1742.4435	28.01	-1.53	130206.900	4.5	135944.400	3.5
1742.4496	28.01	-1.59	128869.890	5.5	134607.370	4.5
1742.4654	17.00	-.37	95786.752	2.5	101524.180	3.5
1742.5194	29.01	.40	133594.050	3.0	139331.300	3.0
1742.5772	22.00	-3.89	41457.620	3.0	47194.680	4.0
1742.6075	6.00	-2.20	80782.510	1.0	86519.470	1.0
1742.6334	18.00	-1.99	118906.665	2.0	124643.540	1.0
1742.6987	27.00	-2.97	48546.070	1.5	54282.730	2.5
1742.7014	14.00	-2.70	57468.239	2.0	63204.890	2.0
1742.7381	17.00	-4.15	94314.206	1.5	100050.736	1.5
1742.7442	6.00	-.02	78249.940	4.0	83986.450	4.0
1742.8141	6.00	-1.57	78249.940	4.0	83986.220	3.0
1742.8354	26.00	-2.88	46313.610	2.0	52049.820	2.0
1742.8566	28.01	-1.69	128803.230	2.5	134539.370	2.5
1742.8809	7.00	-2.84	104765.740	4.5	110501.800	3.5
1742.8992	17.01	-4.19	126032.000	2.0	131768.000	2.0
1742.9265	7.00	-1.51	104765.740	4.5	110501.650	4.5
1742.9600	15.00	-.72	70689.400	3.5	76425.200	2.5
1743.0198	26.00	-4.93	45726.104	5.0	51461.707	4.0
1743.0481	28.01	-1.76	130208.890	3.5	135944.400	3.5
1743.1909	23.02	-2.68	155853.000	2.5	161588.040	3.5
1743.2006	17.00	-1.60	95786.752	2.5	101521.760	3.5
1743.2213	28.01	-3.63	128862.490	4.5	134597.430	5.5
1743.2289	26.00	-4.11	47420.215	5.0	53155.130	4.0
1743.2669	6.00	-2.56	83497.620	2.0	89232.410	1.0
1743.3338	9.00	-2.93	130374.860	1.5	136109.430	.5
1743.3855	15.01	-.22	123891.600	2.0	129626.000	1.0
1743.4432	28.01	-3.37	130225.870	3.5	135960.080	4.5
1743.5618	13.02	-.12	195641.740	1.5	201375.560	1.5
1743.5746	26.00	-4.79	47812.104	4.0	53545.882	3.0
1743.6074	24.00	-4.14	44088.920	1.0	49822.590	2.0
1743.6108	20.00	-1.50	42526.591	2.0	48260.250	3.0
1743.6226	7.00	.29	104615.440	1.5	110349.060	2.5
1743.6503	17.00	-3.09	90749.360	2.5	96482.889	2.5
1743.6713	13.02	.83	195641.740	1.5	201375.200	2.5
1743.7115	14.00	-2.69	59191.072	2.0	64924.400	3.0
1743.7708	28.00	-3.12	51124.800	3.0	56857.933	4.0
1743.9055	18.01	-1.09	195797.610	1.5	201030.300	.5
1743.9177	7.00	-1.20	104765.740	4.5	110498.390	3.5
1743.9207	28.01	-2.89	130815.910	3.5	136548.550	2.5
1743.9971	20.00	-2.23	42526.591	2.0	48258.980	2.0
1743.9998	29.01	.34	141204.100	3.0	146936.480	2.0
1744.1915	29.01	-4.24	131312.700	3.0	137044.450	4.0
1744.2039	20.00	-3.41	42526.591	2.0	48258.300	1.0
1744.2168	22.00	-4.91	28596.293	1.0	34327.960	1.0
1744.2259	17.00	-2.44	95313.749	1.5	101045.386	1.5
1744.2402	24.00	-4.99	24093.160	2.0	29824.750	3.0
1744.2493	24.00	-4.58	44080.900	2.0	49812.460	3.0
1744.3528	28.01	-1.92	130815.910	3.5	136547.130	3.5
1744.3924	27.00	-4.37	47612.180	1.5	53343.270	1.5
1744.3954	17.00	-.48	85442.430	1.5	91173.510	1.5
1744.4852	18.00	-2.17	106087.305	1.0	111818.090	1.0
1744.5285	18.00	-1.36	107289.747	2.0	113020.390	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1744.5446	28.01	-1.54	130815.910	3.5	136546.500	4.5
1744.5811	28.01	-2.15	131796.260	2.5	137526.730	2.5
1744.5872	27.00	-1.63	42988.120	3.5	48718.570	2.5
1744.6855	14.00	-2.69	56690.903	2.0	62421.030	3.0
1744.8573	18.00	-2.46	118651.447	1.0	124381.010	2.0
1744.8582	6.00	.04	72610.720	2.0	78340.280	1.0
1745.0592	28.01	-2.00	130215.500	4.5	135944.400	3.5
1745.0988	6.00	-1.07	78307.630	2.0	84036.400	2.0
1745.1323	6.00	-1.26	78307.630	2.0	84036.290	1.0
1745.1619	12.00	-3.12	54706.536	1.0	60435.099	2.0
1745.3547	28.01	-2.52	130174.030	1.5	135901.960	2.5
1745.3675	26.00	-3.46	48238.832	2.0	53966.720	2.0
1745.3815	7.00	-1.98	107182.788	1.5	112910.630	2.5
1745.3852	12.01	.19	97468.920	1.5	103196.750	.5
1745.4187	27.00	-2.70	47128.960	2.5	52856.680	3.5
1745.4736	28.01	-1.62	128869.890	5.5	134597.430	5.5
1745.4949	28.01	-1.71	128855.600	6.5	134583.070	6.5
1745.5620	28.01	-3.23	131796.260	2.5	137523.510	3.5
1745.5986	6.00	.43	78199.070	2.0	83926.200	3.0
1745.8302	28.01	-2.85	130815.910	3.5	136542.280	3.5
1745.8427	26.00	-4.29	46313.610	2.0	52039.939	1.0
1745.8552	7.00	-1.73	107182.788	1.5	112909.076	1.5
1745.9400	18.01	-3.62	209248.550	2.5	214974.560	3.5
1745.9583	18.01	-2.32	209248.550	2.5	214974.500	2.5
1745.9894	7.00	-4.37	110715.152	3.5	116441.000	2.5
1746.0345	27.00	-2.71	28470.510	1.5	34196.210	1.5
1746.1565	15.00	-1.19	69980.100	3.5	75705.400	3.5
1746.1684	7.00	-4.58	110710.739	2.5	116436.000	1.5
1746.1684	7.00	-3.72	110710.739	2.5	116436.000	2.5
1746.2419	28.01	-.68	112906.930	1.5	118631.950	.5
1746.2684	18.00	-3.27	118651.447	1.0	124376.380	1.0
1746.4798	25.00	-3.63	51787.920	.5	57512.160	1.5
1746.4951	6.00	-3.39	80782.510	1.0	86506.700	2.0
1746.5500	28.01	-1.74	128803.230	2.5	134527.240	3.5
1746.6690	22.00	-4.37	35757.510	4.0	41481.130	5.0
1746.6880	14.00	.42	53387.334	1.0	59110.892	2.0
1746.6995	24.00	-1.99	35501.260	3.0	41224.780	4.0
1746.7371	26.00	-4.27	31322.603	3.0	37046.000	4.0
1746.7545	18.01	-.12	190592.170	1.5	196315.510	2.5
1746.7801	7.00	-1.61	107037.069	2.5	112760.325	2.5
1746.8277	18.01	-2.19	209251.460	3.5	214974.560	3.5
1746.8420	14.00	-1.74	57198.027	3.0	62921.080	2.0
1746.8448	14.00	-3.00	56503.346	2.0	62226.390	1.0
1746.8460	18.01	-3.62	209251.460	3.5	214974.500	2.5
1746.8674	28.01	-3.23	131796.260	2.5	137519.230	2.5
1746.9193	17.01	-2.06	126032.000	2.0	131754.800	1.0
1746.9773	25.00	-3.99	51638.170	2.5	57360.780	1.5
1747.0231	25.00	-4.13	57360.780	1.5	63083.240	1.5
1747.0811	29.01	-3.55	131312.700	3.0	137034.970	3.0
1747.2246	13.01	-.20	139242.900	3.0	144964.700	4.0
1747.2246	13.01	-.03	139242.900	3.0	144964.700	4.0
1747.2246	13.01	-4.36	139242.900	3.0	144964.700	3.0
1747.2368	9.02	-3.79	384358.540	.5	390080.300	1.5
1747.2551	22.01	-2.47	64884.650	2.5	70606.350	2.5
1747.3193	7.00	-3.70	104683.030	2.5	110404.520	2.5
1747.3345	7.00	-1.86	104683.030	2.5	110404.470	1.5
1747.3987	7.00	-.72	104664.100	1.5	110385.330	2.5
1747.4042	7.00	-3.32	107182.788	1.5	112904.000	.5
1747.4537	23.00	-3.01	31268.150	3.5	36989.200	2.5
1747.5636	6.00	-.69	78199.070	2.0	83919.760	2.0
1747.5972	6.00	-.46	78199.070	2.0	83919.650	3.0
1747.6492	28.01	-4.10	130570.420	.5	136290.830	.5
1747.6736	28.01	-4.13	113177.610	3.5	118897.940	2.5
1747.8020	6.00	-1.60	78293.490	1.0	84013.400	2.0
1747.9700	27.00	-1.89	48217.320	3.5	53936.680	2.5
1748.0434	7.00	-.38	104683.030	2.5	110402.150	3.5
1748.0953	7.00	-4.10	110521.050	1.5	116240.000	1.5
1748.0953	7.00	-4.64	110521.050	1.5	116240.000	2.5
1748.1228	28.01	-2.05	131133.580	2.5	136852.440	1.5
1748.1381	25.00	-3.81	56356.210	3.5	62075.020	2.5
1748.2237	28.01	-2.05	130225.870	3.5	135944.400	3.5
1748.2598	26.00	-4.51	43210.011	2.0	48928.423	2.0
1748.3246	6.00	-3.51	80801.270	2.0	86519.470	1.0
1748.3399	6.00	-1.43	78318.250	3.0	84036.400	2.0
1748.5111	21.00	-1.46	33154.010	2.5	38871.600	2.5
1748.5172	28.01	-1.96	130184.390	2.5	135901.960	2.5
1748.5540	10.01	-1.93	302057.260	.5	307774.710	1.5
1748.5754	9.00	-.65	130374.860	1.5	136092.240	2.5
1748.6488	28.01	-3.48	128822.230	1.5	134539.370	2.5
1748.6854	14.00	-1.36	56733.380	0.0	62450.400	1.0
1748.7283	28.01	-2.88	130227.520	2.5	135944.400	3.5
1748.7680	23.00	-4.72	20789.130	2.5	26505.880	2.5
1748.7833	13.01	-.25	132819.700	3.0	138536.400	3.0
1748.8139	15.00	-1.90	75353.400	1.5	81070.000	1.5
1748.8445	13.01	.65	132819.900	2.0	138536.400	3.0
1748.8721	23.02	-4.79	155853.000	2.5	161569.410	1.5
1748.9271	24.00	-4.38	35572.940	2.0	41289.170	1.0
1748.9360	26.00	-4.44	48350.620	1.0	54066.821	2.0
1748.9761	28.01	-2.13	101366.140	2.5	107082.210	2.5
1749.0920	20.00	-2.12	39333.382	0.0	45049.073	1.0
1749.1781	14.00	-2.13	59128.400	5.0	64843.810	4.0
1749.2739	20.00	-2.18	39335.322	1.0	45050.419	2.0
1749.3097	9.00	-.85	130374.860	1.5	136089.840	1.5
1749.3647	13.01	-1.35	142958.900	1.0	148673.700	1.0
1749.5638	7.00	-4.39	110544.850	2.5	116259.000	1.5
1749.5638	7.00	-4.63	110544.850	2.5	116259.000	2.5
1749.6250	25.00	-1.62	35689.980	1.5	41403.930	2.5
1749.6372	23.02	-3.53	156671.200	2.5	162385.110	3.5
1749.6860	20.00	-2.20	39335.322	1.0	45049.073	1.0
1749.7015	23.00	-4.76	33527.640	2.5	39241.340	2.5
1749.8547	15.00	-3.13	75689.200	1.5	81402.400	2.5
1749.8608	28.01	-2.76	128869.890	5.5	134583.070	6.5
1749.8700	18.01	-2.17	202429.840	3.5	208142.990	3.5
1750.0048	23.00	-2.42	20767.570	3.5	26480.280	3.5
1750.0140	27.00	-3.58	48546.070	1.5	54258.750	2.5
1750.1322	20.00	-1.52	39340.080	2.0	45052.374	3.0
1750.1549	28.01	-2.09	128827.150	3.5	134539.370	2.5
1750.2131	24.00	-1.55	48824.500	4.0	54536.530	5.0
1750.2300	28.00	-.87	45122.460	1.0	50834.435	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1750.2511	22.00	-4.37	33700.874	4.0	39412.780	5.0
1750.2535	14.00	-4.26	59131.912	4.0	64843.810	4.0
1750.3817	7.00	-2.49	106980.480	.5	112691.960	.5
1750.5226	10.01	-1.79	302425.870	1.5	308136.890	1.5
1750.5717	6.00	.63	78215.510	3.0	83926.370	4.0
1750.6146	7.00	-3.79	104810.330	2.5	110521.050	1.5
1750.6238	6.00	-1.42	78215.510	3.0	83926.200	3.0
1750.7314	20.00	-2.53	39340.080	2.0	45050.419	2.0
1750.8353	24.00	-2.53	48488.230	0.0	54198.230	1.0
1751.1420	10.03	-4.21	636475.000	1.5	642184.000	1.5
1751.1442	20.00	-3.29	39340.080	2.0	45049.073	1.0
1751.1727	6.00	-2.85	80782.510	1.0	86491.410	1.0
1751.2923	28.01	-1.81	130815.910	3.5	136524.420	4.5
1751.3414	22.00	-1.27	39214.380	3.0	44922.730	3.0
1751.3690	27.00	-4.33	49847.080	2.5	55555.340	2.5
1751.4181	23.00	-3.07	31317.500	4.5	37025.600	3.5
1751.4344	26.00	-3.26	48122.913	3.0	53830.960	3.0
1751.5016	26.00	-4.86	47452.702	4.0	53160.530	3.0
1751.5807	18.01	-1.29	204951.090	3.5	210658.660	2.5
1751.5930	6.00	-3.63	72610.720	2.0	78318.250	3.0
1751.6114	7.00	-1.37	104765.740	4.5	110473.210	4.5
1751.6452	22.00	-3.84	34078.580	3.0	39785.940	4.0
1751.6575	7.00	.64	104765.740	4.5	110473.060	5.5
1751.7041	28.00	-2.76	43464.019	1.0	49171.187	1.0
1751.7895	9.02	-.45	454097.660	1.5	459804.550	1.5
1751.7956	28.01	-3.38	130801.330	4.5	136508.200	5.5
1751.8113	26.00	-4.68	27166.804	4.0	32873.623	4.0
1751.8629	14.00	-2.18	58311.659	0.0	64018.310	1.0
1751.9890	25.02	-4.73	115774.000	3.5	121480.240	3.5
1752.0332	26.00	-3.11	46313.610	2.0	52019.706	1.0
1752.1333	6.00	-.62	78307.630	2.0	84013.400	2.0
1752.1794	6.00	-1.94	78307.630	2.0	84013.250	3.0
1752.1843	12.00	-2.35	54192.256	3.0	59897.860	2.0
1752.1960	12.00	-2.79	54192.294	2.0	59897.860	1.0
1752.1960	12.00	-3.27	54192.294	2.0	59897.860	2.0
1752.2089	12.00	-3.09	54192.336	1.0	59897.860	1.0
1752.2089	12.00	-4.27	54192.336	1.0	59897.860	2.0
1752.2089	12.00	-2.97	54192.336	1.0	59897.860	0.0
1752.2470	18.01	-2.46	196076.390	1.5	201781.790	2.5
1752.2829	18.00	-2.99	118651.447	1.0	124356.730	2.0
1752.4067	25.00	-4.61	50863.050	1.5	56567.930	1.5
1752.4189	18.01	-3.87	204937.800	4.5	210642.640	5.5
1752.4527	28.01	-2.74	130197.230	1.5	135901.960	2.5
1752.4862	17.00	.05	96482.889	2.5	102187.510	2.5
1752.4927	13.01	-.76	144638.900	2.0	150343.500	2.0
1752.4927	13.01	-.03	144638.900	1.0	150343.500	2.0
1752.4927	13.01	-.23	144638.900	2.0	150343.500	3.0
1752.4927	13.01	-2.31	144638.900	3.0	150343.500	2.0
1752.4927	13.01	-1.13	144638.900	3.0	150343.500	3.0
1752.4927	13.01	.30	144638.900	3.0	150343.500	4.0
1752.6002	6.00	-1.64	78215.510	3.0	83919.760	2.0
1752.6033	7.00	-5.00	110459.760	1.5	116164.000	.5
1752.6156	17.00	-1.48	85244.330	.5	90948.530	1.5
1752.6341	6.00	-.62	78215.510	3.0	83919.650	3.0
1752.6678	25.00	-2.47	46083.890	1.5	51787.920	.5
1752.7692	17.01	-2.21	141350.000	3.0	147053.700	2.0
1752.7815	21.00	-3.05	30573.100	.5	36276.760	1.5
1752.7907	27.00	-2.27	46329.630	2.5	52033.260	1.5
1752.8676	9.00	-2.00	130374.860	1.5	136078.240	2.5
1752.9260	14.02	.39	244933.360	1.0	250636.550	2.0
1752.9721	20.00	-1.94	41679.008	1.0	47382.048	1.0
1753.1602	26.00	-4.71	47452.702	4.0	53155.130	4.0
1753.1995	7.00	-.65	104683.030	2.5	110385.330	2.5
1753.1995	7.00	-.22	104683.030	2.5	110385.330	3.5
1753.2540	17.00	-3.99	94468.857	.5	100170.980	1.5
1753.3213	18.00	-3.25	115366.900	1.0	121068.804	1.0
1753.4086	27.00	-2.93	46562.870	1.5	52264.490	1.5
1753.4117	10.01	-2.10	302475.610	.5	308177.220	1.5
1753.5033	17.00	-1.00	96486.198	1.5	102187.510	2.5
1753.5532	28.01	-3.71	113172.960	4.5	118874.110	3.5
1753.6824	22.00	-3.94	41337.430	2.0	47038.160	3.0
1753.7759	26.00	-3.78	47693.289	3.0	53393.715	4.0
1753.8642	26.00	-3.41	46137.140	3.0	51837.279	3.0
1753.8793	28.01	-1.51	128827.150	3.5	134527.240	3.5
1753.9402	7.00	-2.07	107037.069	2.5	112736.961	1.5
1753.9574	28.00	-.26	49032.589	2.0	54732.425	2.0
1754.2147	13.01	-1.79	132819.700	3.0	138518.700	2.0
1754.2763	13.01	-.25	132819.900	2.0	138518.700	2.0
1754.2763	13.01	.48	132819.900	1.0	138518.700	2.0
1754.5226	6.00	.09	78318.250	3.0	84016.250	4.0
1754.5565	26.00	-4.74	47363.390	6.0	53061.280	5.0
1754.5842	15.00	-2.28	76192.300	1.5	81890.100	2.5
1754.6100	3.00	.50	30925.000	0.0	36624.272	0.0
1754.7536	23.01	-4.20	44200.970	1.0	49898.220	2.0
1754.7566	25.00	-3.06	45940.930	2.5	51638.170	2.5
1754.8029	18.01	.31	200406.360	.5	206103.450	1.5
1754.8306	15.00	-3.70	75705.400	3.5	81402.400	2.5
1754.8583	6.00	-2.87	72610.720	2.0	78307.630	2.0
1754.8829	18.01	-2.56	203501.800	2.5	209198.630	2.5
1754.9067	28.00	-4.89	51124.800	3.0	56821.553	3.0
1754.9405	26.00	.31	48036.667	2.0	53733.310	3.0
1755.1609	7.00	-1.79	106996.032	1.5	112691.960	.5
1755.3729	7.00	-4.49	110459.760	1.5	116155.000	.5
1755.4006	7.00	-3.98	110544.850	2.5	116240.000	2.5
1755.4006	6.00	-1.28	78318.250	3.0	84013.400	2.0
1755.4342	28.00	-2.80	43464.019	1.0	49159.060	2.0
1755.4469	6.00	-.35	78318.250	3.0	84013.250	3.0
1755.7317	18.00	-.66	120600.944	2.0	126295.020	3.0
1755.7687	18.00	-2.01	120600.944	2.0	126294.900	3.0
1755.8723	24.00	-2.35	48558.570	2.0	54252.190	2.0
1755.9895	14.02	-3.77	244943.310	2.0	250636.550	2.0
1756.0420	28.01	-1.82	130208.890	3.5	135901.960	2.5
1756.0975	23.00	-4.45	20812.990	1.5	26505.880	2.5
1756.1222	28.01	-2.43	112686.300	2.5	118379.110	2.5
1756.1539	17.00	-1.38	95534.923	.5	101227.630	.5
1756.1552	7.00	-1.29	107253.106	2.5	112945.809	2.5
1756.2672	14.00	-3.31	59190.460	1.0	64882.800	2.0
1756.2734	18.01	-1.91	204937.800	4.5	210630.120	3.5
1756.3967	18.01	-1.19	196089.870	2.5	201781.790	2.5
1756.4091	29.01	-.93	141244.600	1.0	146936.480	2.0
1756.4134	26.00	-4.04	49433.108	2.0	55124.974	3.0
1756.4440	26.00	.18	48221.323	1.0	53913.090	2.0
1756.4560	14.00	-2.36	59191.072	2.0	64882.800	2.0
1756.4754	26.00	-3.68	47590.070	4.0	53281.735	5.0
1756.4924	10.01	-4.48	313420.090	2.5	319111.700	3.5
1756.5356	7.00	-1.04	104810.330	2.5	110501.800	3.5
1756.7702	28.01	-4.95	131075.780	1.5	136766.490	2.5
1756.7826	24.00	-2.52	48507.560	1.0	54198.230	1.0
1756.7838	26.00	-4.49	45913.480	3.0	51604.146	3.0
1756.9338	28.01	-1.27	100592.980	3.5	106283.160	2.5
1756.9462	6.00	-2.22	80801.270	2.0	86491.410	1.0
1757.2587	22.00	-4.29	28638.832	2.0	34327.960	1.0
1757.3421	14.00	-2.94	57798.072	2.0	63486.930	1.0
1757.3774	17.00	-2.56	94482.236	2.5	100170.980	1.5
1757.4434	22.00	-3.91	40556.070	1.0	46244.600	2.0
1757.5330	24.00	-3.97	35398.020	4.0	41086.260	3.0
1757.5856	7.00	-1.79	104810.330	2.5	110498.400	2.5
1757.5887	7.00	-2.40	104810.330	2.5	110498.390	3.5
1757.6091	14.00	-1.57	56978.256	1.0	62666.250	1.0
1757.7308	7.00	-3.42	104716.920	3.5	110404.520	2.5
1757.7673	7.00	-4.81	107182.788	1.5	112870.270	.5
1757.7989	18.01	-4.63	203007.690	1.5	208695.070	1.5
1757.9070	17.00	-2.24	96313.330	1.5	102000.360	1.5
1758.0931	26.00	-3.51	48238.832	2.0	53925.260	1.0
1758.1450	22.00	-2.98	40844.190	3.0	46530.450	4.0
1758.1543	22.00	.57	36208.920	4.0	41895.150	5.0
1758.2873	27.00	-3.06	48828.870	2.5	54514.670	3.5
1758.2903	7.00	-3.49	110473.210	4.5	116159.000	3.5
1758.3801	28.01	-3.44	128853.870	2.5	134539.370	2.5
1758.3980	26.00	-3.94	48475.740	3.0	54161.182	3.0
1758.4243	7.00	-1.29	106996.032	1.5	112681.389	2.5
1758.4636	7.00	-2.80	104716.920	3.5	110402.150	3.5
1758.4914	7.00	-.29	104716.920	3.5	110402.060	4.5
1758.5130	24.00	-3.49	49519.720	3.0	55204.790	3.0
1758.5470	7.00	-.21	104664.100	1.5	110349.060	2.5
1758.6584	17.00	.19	85442.430	1.5	91127.030	2.5
1758.6956	22.00	.46	36096.470	3.0	41780.950	4.0
1758.8472	28.01	-2.73	108368.050	2.5	114052.040	3.5
1758.9951	17.00	-.46	94663.670	1.5	100347.182	2.5
1759.0638	26.00	-4.92	50043.250	1.0	55726.540	0.0
1759.1846	15.00	-.96	72386.100	2.5	78069.000	1.5
1759.2248	6.00	-3.14	72610.720	2.0	78293.490	1.0
1759.2712	18.01	-1.21	203730.860	1.5	209413.480	1.5
1759.3350	14.00	-2.82	49188.617	2.0	54871.031	1.0
1759.5418	26.00	-4.06	55124.974	3.0	60806.720	3.0
1759.6583	26.00	-2.98	54683.390	4.0	60364.760	3.0
1759.7512	18.01	-.10	204977.590	2.5	210658.660	2.5
1759.7791	26.00	-4.28	54491.080	3.0	60172.060	4.0
1759.7853	18.01	-1.43	204977.590	2.5	210658.550	1.5
1759.8472	15.00	-3.33	66813.040	1.5	72493.800	1.5
1759.9216	21.00	-1.36	33278.640	3.5	38959.160	3.5
1760.2594	10.01	-4.29	313432.280	3.5	319111.710	4.5
1760.2749	22.00	-2.12	39526.890	2.0	45206.270	3.0
1760.2997	18.01	-.74	203918.150	1.5	209597.450	1.5
1760.3833	18.01	-.34	204951.090	3.5	210630.120	3.5
1760.4019	7.01	-2.44	197858.690	1.0	203537.660	1.0
1760.4050	18.01	-3.27	204951.090	3.5	210630.050	2.5
1760.4546	15.01	-.76	123891.600	2.0	129570.400	1.0
1760.5197	6.00	.19	78307.630	2.0	83986.220	3.0
1760.6779	25.00	-1.47	35725.850	2.5	41403.930	2.5
1760.7554	25.00	-4.84	56356.210	3.5	62034.040	3.5
1760.8053	28.00	-.79	43654.974	3.0	49332.643	4.0
1761.0997	7.00	-1.20	104825.080	2.5	110501.800	3.5
1761.1648	24.00	-3.80	29824.750	3.0	35501.260	3.0
1761.1825	14.00	-4.23	57198.027	3.0	62874.480	2.0
1761.1896	6.00	-.59	78249.940	4.0	83926.370	4.0
1761.2300	27.00	-4.18	27497.060	2.5	33173.360	3.5
1761.2424	6.00	-2.12	78249.940	4.0	83926.200	3.0
1761.2952	28.01	-1.82	130225.870	3.5	135901.960	2.5
1761.3405	18.00	-2.39	120619.076	2.0	126295.020	3.0
1761.3777	18.00	-.68	120619.076	2.0	126294.900	3.0
1761.4097	17.00	-3.17	94827.150	2.5	100502.871	1.5
1761.4224	7.00	-1.55	104810.330	2.5	110486.010	2.5
1761.4339	26.00	-4.16	47606.092	5.0	53281.735	5.0
1761.4473	7.00	-3.01	104810.330	2.5	110485.930	1.5
1761.5279	18.01	-1.50	183090.810	1.5	188766.150	2.5
1761.6583	28.01	-2.79	115565.980	2.5	121240.900	3.5
1761.6738	22.00	-1.53	39149.260	2.0	44824.130	2.0
1761.6794	26.00	-4.48	45428.385	4.0	51103.237	5.0
1761.6881	56.01	-7.83	0.000	0.0	5676.374	0.0
1761.6924	17.00	-3.56	96313.330	1.5	101988.140	2.5
1761.6946	14.00	.13	53362.240	3.0	59037.043	4.0
1761.7834	28.00	-.86	46522.965	2.0	52197.482	3.0
1761.8073	28.01	-2.07	130227.520	2.5	135901.960	2.5
1761.9066	6.00	-1.44	79310.850	2.0	84984.970	3.0
1761.9597	7.00	-2.24	107253.106	2.5	112927.055	1.5
1762.0806	27.00	-3.56	49847.080	2.5	55520.640	3.5
1762.1396	28.01	-4.31	128853.870	2.5	134527.240	3.5
1762.1520	28.01	-1.73	128853.910	4.5	134527.240	3.5
1762.1551	7.00	-2.19	104825.080	2.5	110498.400	2.5
1762.1582	7.00	-.57	104825.080	2.5	110498.390	3.5
1762.2411	26.00	-4.88	45294.830	5.0	50967.873	6.0
1762.2794	27.00	-3.39	48753.720	1.5	54426.640	1.5
1762.2946	28.00	-1.53	43654.974	3.0	49327.845	2.0
1762.3328	14.00	-.56	53362.240	3.0	59034.988	3.0
1762.4502	28.01	-3.81	128867.000	3.5	134539.370	2.5
1762.4999	28.01	-.85	100309.290	5.5	105981.500	4.5
1762.5031	13.01	-.10	144638.900	2.0	150311.100	3.0
1762.5031	13.01	-1.01	144638.900	3.0	150311.100	3.0
1762.5217	26.00	-3.85	42859.756	2.0	48531.896	3.0
1762.5373	6.00	-1.95	80834.610	3.0	86506.700	2.0
1762.5879	26.00	-4.87	48928.423	2.0	54600.350	3.0
1762.7019	18.01	-1.27	204937.800	4.5	210609.360	3.5
1762.7299	18.01	-.27	204937.800	4.5	210609.270	4.5
1762.8449	28.01	-4.90	116191.470	2.5	121862.570	3.5
1762.8915	24.00	-4.73	49538.060	5.0	55209.010	4.0
1762.9071	28.01	-3.77	107737.810	1.5	113408.710	1.5
1762.9817	24.00	-3.93	35618.510	1.0	41289.170	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1763.0003	18.01	-3.29	190196.160	.5	195866.760	1.5
1763.2087	24.00	-4.23	33060.740	3.0	38730.670	2.0
1763.2211	18.01	-.90	204937.800	4.5	210607.690	4.5
1763.2647	18.01	.82	204937.800	4.5	210607.550	5.5
1763.2771	6.00	-1.90	78249.940	4.0	83919.650	3.0
1763.3424	28.01	-4.01	107737.810	1.5	113407.310	2.5
1763.4450	9.00	-4.44	130016.100	2.5	135685.270	1.5
1763.4762	7.00	-4.59	110485.930	1.5	116155.000	.5
1763.5322	28.01	-4.64	131063.850	.5	136732.740	1.5
1763.5322	18.01	-3.70	199525.150	1.5	205194.040	1.5
1763.5477	18.01	-1.32	183985.940	1.5	189654.780	2.5
1763.6814	7.00	-2.09	104716.920	3.5	110385.330	2.5
1763.6814	7.00	-.39	104716.920	3.5	110385.330	3.5
1763.6830	26.00	-4.92	31307.235	4.0	36975.640	3.0
1763.7468	6.00	.41	78318.250	3.0	83986.450	4.0
1763.7477	10.00	-4.45	167591.233	2.0	173259.430	1.0
1763.8028	28.01	-4.75	53037.930	2.5	58705.950	1.5
1763.8184	6.00	-.38	78318.250	3.0	83986.220	3.0
1764.0083	24.00	-2.31	48661.590	3.0	54328.950	3.0
1764.0384	28.00	-.79	49032.589	2.0	54699.852	3.0
1764.0674	27.00	-3.92	48615.560	2.5	54282.730	2.5
1764.2698	9.00	-3.81	129937.330	1.5	135603.850	2.5
1764.3725	10.01	-2.93	303071.840	2.5	308738.030	1.5
1764.3975	7.00	.23	104683.030	2.5	110349.140	3.5
1764.4223	7.00	-1.05	104683.030	2.5	110349.060	2.5
1764.4971	29.01	-.12	139217.300	2.0	144883.090	2.0
1764.5469	18.01	-4.39	203007.690	1.5	208673.320	2.5
1764.5531	7.00	-4.36	110498.390	3.5	116164.000	3.5
1764.5874	17.01	-2.77	145468.500	1.0	151134.000	1.0
1764.6185	27.00	-4.63	41041.430	3.5	46706.830	3.5
1764.8210	28.01	-2.35	128862.490	4.5	134527.240	3.5
1764.8428	23.02	-3.69	156671.200	2.5	162335.880	3.5
1764.8721	17.00	-1.57	94482.236	2.5	100146.822	3.5
1764.8771	29.01	-3.95	108335.430	2.0	114000.000	3.0
1765.1233	24.00	-3.17	49310.860	3.0	54974.640	2.0
1765.2011	7.00	-3.79	104881.320	3.5	110544.850	2.5
1765.2199	27.00	-4.63	45540.280	5.5	51203.750	5.5
1765.2697	28.01	-3.88	131103.180	2.5	136766.490	2.5
1765.3751	14.00	-2.25	57541.918	1.0	63204.890	2.0
1765.4163	23.00	-4.52	36700.780	2.5	42363.620	3.5
1765.4381	18.01	-2.01	196119.020	3.5	201781.790	2.5
1765.4443	18.01	-.56	209248.550	2.5	214911.300	2.5
1765.5005	18.01	-1.51	204996.090	3.5	210658.660	2.5
1765.5999	14.00	-2.83	57468.239	2.0	63130.490	1.0
1765.6479	26.00	-3.75	48304.623	2.0	53966.720	2.0
1765.7343	28.01	-3.25	115565.980	2.5	121227.800	2.5
1765.9027	9.00	-1.33	130489.930	.5	136151.210	.5
1765.9027	10.01	-1.34	302475.610	.5	308136.890	1.5
1766.0119	7.00	-1.28	104825.080	2.5	110486.010	2.5
1766.0369	7.00	-2.12	104825.080	2.5	110485.930	1.5
1766.1957	22.00	-4.15	33980.639	2.0	39640.980	3.0
1766.2169	18.00	-1.87	118651.447	1.0	124311.720	1.0
1766.2272	28.01	-3.25	128867.000	3.5	134527.240	3.5
1766.3520	18.01	-1.42	209251.460	3.5	214911.300	2.5
1766.4394	18.01	-1.96	209337.870	4.5	214997.430	4.5
1766.5018	28.01	-.35	112719.750	3.5	118379.110	2.5
1766.5206	15.00	.09	66834.500	1.5	72493.800	1.5
1766.5456	18.01	-3.60	209338.210	3.5	214997.430	4.5
1766.6360	18.01	-3.60	209337.870	4.5	214996.800	3.5
1766.6526	28.00	-2.40	43654.974	3.0	49313.851	3.0
1766.7422	18.01	-2.06	209338.210	3.5	214996.800	3.5
1766.8421	18.01	-2.33	204951.090	3.5	210609.360	3.5
1766.8703	18.01	-2.66	204951.090	3.5	210609.270	4.5
1766.9349	7.00	-1.43	107253.106	2.5	112911.079	3.5
1767.0751	7.00	-1.43	107253.106	2.5	112910.630	2.5
1767.1294	7.00	-3.82	110501.650	4.5	116159.000	3.5
1767.1451	28.01	-4.51	133445.750	4.5	139103.050	5.5
1767.2044	6.00	-1.30	64086.920	3.0	69744.030	3.0
1767.2125	26.00	-4.00	46410.366	1.0	52067.450	2.0
1767.3637	7.00	-4.49	110498.400	2.5	116155.000	1.5
1767.3637	18.01	.73	204951.090	3.5	210607.690	4.5
1767.3856	26.00	-4.62	46600.800	1.0	52257.330	0.0
1767.4697	7.00	-3.38	110710.739	2.5	116367.000	3.5
1767.5262	27.00	-4.51	45904.680	1.5	51560.760	2.5
1767.5606	7.00	-4.91	107253.106	2.5	112909.076	1.5
1767.6013	18.00	-3.35	119212.930	3.0	124868.770	3.0
1767.6013	18.00	-2.56	119212.930	3.0	124868.770	4.0
1767.6200	22.01	-4.32	59321.790	2.5	64977.570	3.5
1767.7013	29.01	-.53	116326.160	3.0	121981.680	2.0
1767.7913	7.00	-2.21	107182.788	1.5	112838.020	1.5
1767.8325	15.00	-.86	64239.500	.5	69894.600	1.5
1767.8513	23.00	-2.61	32348.890	.5	38003.930	1.5
1767.9295	26.01	-4.01	58631.650	4.5	64286.440	3.5
1768.0177	20.00	-2.02	39335.322	1.0	44989.830	2.0
1768.0827	15.01	-.27	123456.300	1.0	129110.600	1.0
1768.2609	25.00	-2.98	57485.970	2.5	63139.700	2.5
1768.4642	6.00	-2.21	64090.950	2.0	69744.030	3.0
1768.5769	27.00	-1.78	43425.710	2.5	49078.430	1.5
1768.6363	18.01	.24	204977.590	2.5	210630.120	3.5
1768.6582	18.01	-3.08	204977.590	2.5	210630.050	2.5
1768.7083	13.01	-1.47	139286.800	2.0	144939.100	1.0
1768.7208	18.00	-4.48	119212.930	3.0	124865.190	2.0
1768.7678	18.00	-1.29	119212.930	3.0	124865.040	3.0
1768.7681	17.00	-1.59	95400.731	2.5	101052.840	2.5
1768.8497	7.00	-3.73	110715.152	3.5	116367.000	3.5
1769.1309	16.01	-4.92	158666.450	1.5	164317.400	1.5
1769.4690	23.00	-2.41	32456.450	1.5	38106.320	2.5
1769.5066	20.00	-2.43	39340.080	2.0	44989.830	2.0
1769.5952	26.00	-.46	47960.973	4.0	53610.440	4.0
1769.6068	7.00	-2.97	104810.330	2.5	110459.760	1.5
1769.6131	28.01	-3.35	100332.090	4.5	105981.500	4.5
1769.8186	14.00	-2.61	57017.496	2.0	62666.250	1.0
1769.9044	24.00	-3.61	35640.690	0.0	41289.170	1.0
1769.9730	7.00	-3.46	110710.739	2.5	116359.000	3.5
1769.9922	27.00	-3.77	48828.870	2.5	54477.070	3.5
1770.0799	6.00	-2.58	80801.270	2.0	86449.190	3.0
1770.1458	18.00	-.54	119212.930	3.0	124860.640	4.0
1770.3495	10.01	.47	302247.780	3.5	307894.840	2.5
1770.5681	17.00	-.51	85917.937	.5	91564.300	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1770.5847	18.01	-1.68	203730.860	1.5	209377.170	2.5
1770.6483	26.00	-2.92	48122.913	3.0	53769.020	4.0
1770.8180	17.00	-1.03	90948.530	1.5	96594.096	.5
1770.8356	25.00	-3.39	45259.170	1.5	50904.680	2.5
1770.8920	24.00	-1.42	35398.020	4.0	41043.350	3.0
1771.0347	17.00	-2.11	95897.565	1.5	101542.440	1.5
1771.1038	17.00	-3.31	95400.731	2.5	101045.386	1.5
1771.1555	18.00	-4.71	119212.930	3.0	124857.420	2.0
1771.2089	7.00	-.92	107037.069	2.5	112681.389	2.5
1771.2215	18.01	-1.55	196076.390	1.5	201720.670	1.5
1771.3219	22.00	.66	36351.430	5.0	41995.390	6.0
1771.3571	7.00	-4.03	110715.152	3.5	116359.000	3.5
1771.4129	22.00	-4.06	41194.420	3.0	46838.090	4.0
1771.4725	22.01	-4.75	25193.040	2.5	30836.520	1.5
1771.4882	24.00	-4.48	21856.940	3.0	27500.370	3.0
1771.5165	27.00	-3.39	47128.960	2.5	52772.300	2.5
1771.5636	27.00	-3.75	48615.560	2.5	54258.750	2.5
1771.6703	27.00	-3.39	43435.580	.5	49078.430	1.5
1771.7363	12.01	-.69	103419.700	2.5	109062.340	2.5
1771.7363	12.01	.62	103419.700	2.5	109062.340	3.5
1771.7614	25.00	-3.90	51718.220	1.5	57360.780	1.5
1771.8304	12.01	.46	103420.000	1.5	109062.340	2.5
1771.9058	13.01	-.84	142607.000	2.0	148249.100	3.0
1771.9938	10.01	-3.95	313469.890	3.5	319111.710	4.5
1772.0242	28.00	-4.02	51124.800	3.0	56766.523	4.0
1772.0283	29.01	-.08	141244.600	1.0	146886.310	1.0
1772.0406	7.00	-1.07	107182.788	1.5	112824.459	2.5
1772.0849	28.01	-4.88	131124.960	3.5	136766.490	2.5
1772.0974	29.01	-.04	139241.600	1.0	144883.090	2.0
1772.1633	10.01	-4.97	313470.420	2.5	319111.700	3.5
1772.2168	18.01	-3.43	209337.870	4.5	214978.980	4.5
1772.2309	26.00	-3.65	47420.215	5.0	53061.280	5.0
1772.2356	18.01	-3.74	206120.350	2.5	211761.400	3.5
1772.3236	18.01	-1.78	209338.210	3.5	214978.980	4.5
1772.6442	22.00	-4.53	37690.320	5.0	43330.070	5.0
1772.6599	15.00	-3.94	72493.800	1.5	78133.500	2.5
1772.6605	20.00	-1.97	42743.002	1.0	48382.700	2.0
1772.6724	24.00	-3.35	48558.570	2.0	54198.230	1.0
1772.7196	6.00	-2.27	79310.850	2.0	84950.360	2.0
1772.7372	26.00	-2.91	46410.366	1.0	52049.820	2.0
1772.7784	20.00	-4.84	42744.716	2.0	48384.039	3.0
1772.7919	27.00	-3.62	46375.170	1.5	52014.450	1.5
1772.8164	26.00	-4.85	45964.944	2.0	51604.146	3.0
1772.8485	15.00	-3.00	75484.400	2.5	81123.500	2.5
1772.9428	15.00	-.76	72493.800	1.5	78132.600	.5
1772.9742	7.00	-2.86	104859.700	1.5	110498.400	2.5
1773.0516	14.00	-3.66	56503.346	2.0	62141.800	1.0
1773.1529	7.00	-.48	107253.106	2.5	112891.238	3.5
1773.1740	20.00	-1.80	42744.716	2.0	48382.781	3.0
1773.1994	20.00	-2.71	42744.716	2.0	48382.700	2.0
1773.3107	17.00	-1.69	95534.923	.5	101172.553	1.5
1773.3391	28.01	-3.60	107082.210	2.5	112719.750	3.5
1773.4429	14.01	-1.29	119311.450	3.5	124948.660	3.5
1773.4429	14.01	.25	119311.450	3.5	124948.660	4.5
1773.4901	14.01	.14	119311.600	2.5	124948.660	3.5
1773.4963	26.00	-4.62	49242.680	2.0	54879.720	2.0
1773.5184	22.00	-3.70	20062.980	1.0	25699.950	2.0
1773.5568	26.00	-4.64	49242.872	3.0	54879.720	2.0
1773.6064	18.01	-3.48	209337.870	4.5	214974.560	3.5
1773.6631	25.00	-3.35	50931.420	2.5	56567.930	1.5
1773.6946	7.00	-2.26	104765.740	4.5	110402.150	3.5
1773.7229	7.00	-.30	104765.740	4.5	110402.060	4.5
1773.7323	18.01	-3.59	209338.210	3.5	214974.500	2.5
1773.8740	29.01	-.59	117231.690	1.0	122867.530	1.0
1773.9051	22.00	-4.44	29818.310	3.0	35454.051	4.0
1773.9652	28.01	-3.28	115592.250	1.5	121227.800	2.5
1773.9715	18.00	-2.31	119847.810	1.0	125483.340	2.0
1773.9983	17.00	-1.73	95897.565	1.5	101533.010	2.5
1774.0080	20.00	-1.64	42747.387	3.0	48382.801	4.0
1774.0109	17.00	-4.85	95897.565	1.5	101532.970	1.5
1774.0143	20.00	-2.71	42747.387	3.0	48382.781	3.0
1774.0398	20.00	-4.25	42747.387	3.0	48382.700	2.0
1774.1724	10.00	-4.72	166656.508	1.0	172291.400	2.0
1774.2266	27.00	-3.11	47128.960	2.5	52763.680	3.5
1774.2392	7.00	-2.23	104825.080	2.5	110459.760	1.5
1774.3368	9.00	-2.27	130489.930	.5	136124.300	.5
1774.3494	25.00	-2.68	46083.890	1.5	51718.220	1.5
1774.4407	6.00	-2.08	80782.510	1.0	86416.550	1.0
1774.4438	18.01	-1.45	204996.090	3.5	210630.120	3.5
1774.4659	25.00	-1.37	35769.970	3.5	41403.930	2.5
1774.4659	18.01	-1.31	204996.090	3.5	210630.050	2.5
1774.5163	15.01	-.64	125391.900	4.0	131025.700	4.0
1774.6306	26.00	-3.02	46137.140	3.0	51770.577	3.0
1774.6867	22.00	-4.58	35454.051	4.0	41087.310	3.0
1774.8609	26.00	-4.27	55124.974	3.0	60757.680	4.0
1774.8849	16.01	-3.17	158826.870	2.5	164459.500	2.5
1774.9006	28.01	-1.64	116167.760	1.5	121800.340	1.5
1774.9615	12.00	-1.48	54248.809	0.0	59881.196	1.0
1775.0141	7.00	-3.68	104716.920	3.5	110349.140	3.5
1775.1244	17.00	-3.13	96313.330	1.5	101945.200	.5
1775.1244	17.00	-2.75	96313.330	1.5	101945.200	1.5
1775.1559	18.01	-1.66	204977.590	2.5	210609.360	3.5
1775.1852	28.00	-.92	45122.460	1.0	50754.137	2.0
1775.2158	6.00	-1.63	79318.780	1.0	84950.360	2.0
1775.2190	27.00	-3.52	47225.110	3.5	52856.680	3.5
1775.3555	26.00	.39	48928.423	2.0	54559.560	3.0
1775.3640	12.00	-1.61	54250.086	1.0	59881.196	1.0
1775.3687	12.00	-1.30	54250.086	1.0	59881.181	2.0
1775.4617	18.01	-3.69	196089.870	2.5	201720.670	1.5
1775.5878	7.01	-1.84	196540.230	0.0	202170.630	1.0
1775.7024	17.00	-3.86	95597.593	.5	101227.630	.5
1775.7077	18.00	-3.23	119444.880	2.0	125074.900	2.0
1775.7396	14.00	-1.31	57295.881	0.0	62925.800	1.0
1775.7992	7.00	-.75	107182.788	1.5	112812.518	2.5
1775.8487	26.00	-3.52	46410.366	1.0	52039.939	1.0
1775.9664	13.01	.47	120089.800	1.0	125719.000	2.0
1775.9878	7.00	-1.39	106980.480	.5	112609.612	1.5
1775.9913	14.00	-1.24	57468.239	2.0	63097.360	1.0
1776.0989	22.01	-3.43	64977.570	3.5	70606.350	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1776.1115	18.01	-2.25	206132.660	4.5	211761.400	3.5
1776.1179	18.01	-.61	206132.660	4.5	211761.380	4.5
1776.1967	12.00	-2.78	54252.726	2.0	59881.196	1.0
1776.1977	26.00	-4.15	45833.240	4.0	51461.707	4.0
1776.2014	12.00	-1.78	54252.726	2.0	59881.181	2.0
1776.2055	12.00	-.86	54252.726	2.0	59881.168	3.0
1776.2945	29.01	-1.48	117928.480	1.0	123556.640	2.0
1776.3009	25.00	-3.79	57485.970	2.5	63114.110	1.5
1776.3640	28.01	-1.85	134380.820	3.5	140008.760	3.5
1776.4145	15.00	-1.22	67113.820	2.5	72741.600	1.5
1776.4271	25.00	-4.85	50863.050	1.5	56490.790	2.5
1776.4334	18.00	-2.14	119444.880	2.0	125072.600	1.0
1776.4366	9.02	-3.33	384493.060	1.5	390120.770	.5
1776.4745	28.01	-4.72	130765.260	3.5	136392.850	3.5
1776.6632	14.00	-3.77	59034.988	3.0	64661.980	3.0
1776.7444	17.00	-3.58	95897.565	1.5	101524.300	2.5
1776.7902	17.00	-1.97	85442.430	1.5	91069.020	.5
1776.8786	7.00	-.71	104859.700	1.5	110486.010	2.5
1776.8913	6.00	.16	78293.490	1.0	83919.760	2.0
1776.9039	7.00	-.75	104859.700	1.5	110485.930	1.5
1776.9260	28.01	-2.82	94705.930	3.5	100332.090	4.5
1776.9291	18.01	-3.35	157673.320	2.5	163299.470	2.5
1777.0176	9.00	-1.45	130059.400	.5	135685.270	1.5
1777.1818	28.01	-4.29	134380.820	3.5	140006.170	4.5
1777.1891	14.00	-1.63	54871.031	1.0	60496.358	2.0
1777.2229	23.01	-2.89	44098.460	3.0	49723.680	4.0
1777.2384	14.00	-1.51	57468.239	2.0	63093.410	2.0
1777.3123	14.00	-3.01	59037.043	4.0	64661.980	3.0
1777.3622	7.00	-2.68	107182.788	1.5	112807.567	.5
1777.4081	26.00	-2.99	48122.913	3.0	53747.547	3.0
1777.4536	6.00	-2.76	79310.850	2.0	84935.340	1.0
1777.4817	26.00	-3.84	45726.104	5.0	51350.505	4.0
1777.5136	17.01	-2.50	144174.000	3.0	149798.300	2.0
1777.6463	9.00	-2.92	130489.930	.5	136113.810	1.5
1777.6464	21.00	-2.17	30706.610	1.5	36330.490	2.5
1777.6906	6.00	-2.39	64086.920	3.0	69710.660	2.0
1777.8455	29.01	.00	133594.050	3.0	139217.300	2.0
1778.0292	14.00	-4.96	58775.451	2.0	64398.120	2.0
1778.1301	6.00	-1.22	80562.850	1.0	86185.200	2.0
1778.1681	22.00	-3.37	33680.130	3.0	39302.360	4.0
1778.1845	13.00	-5.00	41319.372	2.5	46941.550	2.5
1778.1870	13.00	-3.69	41319.380	3.5	46941.550	2.5
1778.1934	18.01	.40	206103.450	1.5	211725.600	2.5
1778.1988	28.00	-4.56	45122.460	1.0	50744.593	1.0
1778.2155	18.00	-4.80	116660.054	1.0	122282.134	2.0
1778.3680	13.00	-3.85	41319.372	2.5	46940.970	1.5
1778.6173	6.00	-2.21	64089.850	1.0	69710.660	2.0
1778.6720	26.00	-3.80	48304.623	2.0	53925.260	1.0
1778.7218	7.00	-1.04	104881.320	3.5	110501.800	3.5
1778.7376	16.01	-3.94	158826.870	2.5	164447.300	2.5
1778.7439	9.00	-2.75	130374.860	1.5	135995.270	.5
1778.7470	27.00	-1.16	50925.110	1.5	56545.510	2.5
1778.7565	22.00	-2.44	39302.360	4.0	44922.730	3.0
1778.7692	7.00	.49	104881.320	3.5	110501.650	4.5
1778.9591	10.01	-1.04	301801.090	3.5	307420.820	2.5
1778.9655	6.00	-1.53	64090.950	2.0	69710.660	2.0
1779.0035	7.00	-1.48	104765.740	4.5	110385.330	3.5
1779.0288	27.00	-3.44	48317.170	3.5	53936.680	2.5
1779.0320	9.00	-2.35	130489.930	.5	136109.430	.5
1779.1427	7.00	-3.72	110544.850	2.5	116164.000	3.5
1779.3264	6.00	-1.38	78307.630	2.0	83926.200	3.0
1779.3644	14.00	-1.34	56700.250	1.0	62318.700	0.0
1779.4300	7.00	-1.98	107182.788	1.5	112801.031	1.5
1779.5101	25.00	-2.59	46169.930	.5	51787.920	.5
1779.6336	18.01	-1.00	183797.360	2.5	189414.960	3.5
1779.7984	7.00	-3.52	104881.320	3.5	110498.400	2.5
1779.8016	7.00	-.93	104881.320	3.5	110498.390	3.5
1779.8238	15.00	-2.88	75905.100	2.5	81522.100	2.5
1779.9473	26.00	-3.99	54555.450	4.0	60172.060	4.0
1779.9492	28.00	-.92	43654.974	3.0	49271.578	3.0
1779.9631	6.00	-2.40	79318.780	1.0	84935.340	1.0
1780.0139	13.01	.25	120089.800	1.0	125706.200	1.0
1780.0361	26.00	-3.67	48516.150	1.0	54132.480	1.0
1780.0367	22.00	-3.89	38764.832	3.0	44381.160	4.0
1780.1179	14.00	-3.44	54871.031	1.0	60487.103	1.0
1780.1407	13.01	-1.98	142601.600	3.0	148217.600	3.0
1780.1407	13.01	-.50	142601.600	3.0	148217.600	4.0
1780.1407	13.01	-2.65	142601.600	3.0	148217.600	4.0
1780.1720	26.00	-3.70	47929.981	4.0	53545.882	3.0
1780.2360	10.00	-4.64	167639.561	1.0	173255.260	0.0
1780.3689	6.00	-2.18	80801.270	2.0	86416.550	1.0
1780.3711	17.00	-1.93	95612.357	1.5	101227.630	.5
1780.4418	27.00	-3.51	46454.950	1.5	52070.000	2.5
1780.4831	18.00	-2.45	119444.880	2.0	125059.800	2.0
1780.4951	17.00	-1.25	94732.300	3.5	100347.182	2.5
1780.5908	6.00	-2.55	80834.610	3.0	86449.190	3.0
1780.7675	14.00	-4.80	57372.297	2.0	62986.320	2.0
1780.8414	28.01	-.59	98467.250	3.5	104081.040	4.5
1780.8818	14.00	-3.64	57372.297	2.0	62985.960	1.0
1780.9081	7.00	-1.88	106996.032	1.5	112609.612	1.5
1780.9239	26.00	-4.85	46600.800	1.0	52214.330	1.0
1780.9969	15.00	-1.27	64239.500	.5	69852.800	.5
1781.0064	18.01	.02	204996.090	3.5	210609.360	3.5
1781.0128	28.01	-2.28	114052.040	3.5	119665.290	2.5
1781.0349	18.01	.35	204996.090	3.5	210609.270	4.5
1781.0648	20.00	-1.16	42919.053	2.0	48532.139	3.0
1781.1397	16.01	-3.92	158666.450	1.5	164279.300	.5
1781.2064	10.01	-4.30	318828.550	3.5	324441.190	2.5
1781.2533	14.00	-2.64	59034.988	3.0	64647.480	3.0
1781.2635	18.01	-.71	206148.940	3.5	211761.400	3.5
1781.2698	18.01	-2.36	206148.940	3.5	211761.380	4.5
1781.3523	6.00	-1.90	79323.160	0.0	84935.340	1.0
1781.3682	6.00	-.45	78307.630	2.0	83919.760	2.0
1781.3745	28.01	-3.80	68281.620	.5	73893.730	1.5
1781.4031	6.00	-.05	78307.630	2.0	83919.650	3.0
1781.4190	28.01	-4.60	111120.540	1.5	116732.510	2.5
1781.4437	10.00	-4.96	166656.508	1.0	172268.400	1.0
1781.4755	14.00	-4.42	59034.988	3.0	64646.780	2.0
1781.5301	27.00	-3.64	47091.140	.5	52702.760	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1781.5365	15.00	-2.20	75689.200	1.5	81300.800	1.5
1781.5365	18.01	-1.28	204996.090	3.5	210607.690	4.5
1781.6444	14.00	-3.24	58786.860	3.0	64398.120	2.0
1781.7355	17.00	-3.58	95612.357	1.5	101223.330	2.5
1781.7936	10.00	-4.76	167648.640	2.0	173259.430	1.0
1781.8222	28.02	-4.10	116192.100	4.0	121802.800	3.0
1781.8222	13.01	-.23	120089.800	1.0	125700.500	0.0
1781.9058	14.00	-1.85	59037.043	4.0	64647.480	3.0
1782.1240	22.00	-2.30	39214.380	3.0	44824.130	2.0
1782.1462	18.01	-3.23	199446.540	.5	205056.220	1.5
1782.2034	23.00	-2.63	15078.250	.5	20687.750	1.5
1782.2510	26.00	-4.72	48231.330	5.0	53840.680	6.0
1782.2542	26.00	-3.61	46410.366	1.0	52019.706	1.0
1782.3273	18.00	-.16	114641.040	2.0	120250.150	3.0
1782.4036	28.01	-.55	116191.470	2.5	121800.340	1.5
1782.5501	17.00	-.58	85735.091	1.5	91343.500	2.5
1782.5529	17.01	-2.93	144344.000	2.0	149952.400	1.0
1782.6419	6.00	-.51	78318.250	3.0	83926.370	4.0
1782.6578	28.01	.65	116833.150	4.5	122441.220	4.5
1782.6960	6.00	-1.07	78318.250	3.0	83926.200	3.0
1782.8390	13.01	-.80	133679.300	3.0	139286.800	2.0
1783.0394	6.00	-2.85	80782.510	1.0	86389.380	2.0
1783.0425	27.00	-4.90	45105.590	3.5	50712.450	2.5
1783.0902	24.00	-4.56	49598.080	2.0	55204.790	3.0
1783.1093	29.01	-4.06	131312.700	3.0	136919.350	3.0
1783.2238	24.00	-4.01	35618.510	1.0	41224.800	0.0
1783.2366	28.01	-.86	130942.300	1.5	136548.550	2.5
1783.2970	27.00	-2.40	41918.410	3.5	47524.470	4.5
1783.3638	6.01	.30	162517.890	.5	168123.740	1.5
1783.3829	22.00	-4.04	41368.860	4.0	46974.650	5.0
1783.5006	24.00	-4.67	42261.060	5.0	47866.480	4.0
1783.5260	18.01	.55	206120.350	2.5	211725.690	3.5
1783.5546	18.01	-.74	206120.350	2.5	211725.600	2.5
1783.6874	14.00	-2.60	57198.027	3.0	62802.860	3.0
1783.7011	6.00	-1.05	72610.720	2.0	78215.510	3.0
1783.7329	7.00	-1.55	104881.320	3.5	110486.010	2.5
1783.7393	7.00	-4.70	110385.330	3.5	115990.000	2.5
1783.8857	28.01	-2.75	114052.040	3.5	119656.250	3.5
1783.9716	24.00	-3.89	49370.700	3.0	54974.640	2.0
1784.1340	29.01	.05	133727.870	2.0	139331.300	3.0
1784.2868	7.00	-4.61	110521.050	1.5	116124.000	2.5
1784.2951	26.00	-1.41	48531.896	3.0	54134.820	2.0
1784.3059	27.00	-4.98	49847.080	2.5	55449.970	2.5
1784.3632	6.00	-3.20	83747.390	2.0	89350.100	2.0
1784.4375	26.00	-3.97	43325.946	3.0	48928.423	2.0
1784.4493	18.01	.41	205056.220	1.5	210658.660	2.5
1784.4524	28.01	-.22	128732.030	1.5	134334.460	1.5
1784.4843	18.01	-.33	205056.220	1.5	210658.550	1.5
1784.4907	27.00	-4.30	48334.370	1.5	53936.680	2.5
1784.5098	27.00	-4.15	45540.280	5.5	51142.530	6.5
1784.6213	15.01	-1.88	125391.900	4.0	130993.800	3.0
1784.6308	27.00	-4.17	41104.960	2.5	46706.830	3.5
1784.7328	28.01	-4.90	95017.710	4.5	100619.260	4.5
1784.7455	6.00	-1.77	78318.250	3.0	83919.760	2.0
1784.7532	22.00	-2.39	33700.874	4.0	39302.360	4.0
1784.7806	6.00	-.80	78318.250	3.0	83919.650	3.0
1784.8249	7.00	-4.76	110710.739	2.5	116312.000	2.5
1784.9081	15.00	-1.76	75699.800	.5	81300.800	1.5
1784.9750	24.00	-2.43	48824.500	4.0	54425.290	4.0
1784.9836	26.00	-4.88	52213.207	3.0	57813.970	3.0
1785.2077	7.00	-1.33	104859.700	1.5	110459.760	.5
1785.2077	7.00	-.82	104859.700	1.5	110459.760	1.5
1785.2555	9.00	-2.22	130489.930	.5	136089.840	1.5
1785.2651	6.01	.55	162524.570	1.5	168124.450	2.5
1785.2714	7.00	-.53	104886.070	.5	110485.930	1.5
1785.3193	18.01	-.83	206132.660	4.5	211732.370	4.5
1785.3448	6.00	-1.72	64089.850	1.0	69689.480	1.0
1785.3543	18.01	-4.65	206132.660	4.5	211732.260	5.5
1785.3798	28.01	-3.88	109269.830	1.5	114869.350	1.5
1785.3925	6.00	-4.71	83919.650	3.0	89519.130	3.0
1785.4340	24.00	-3.89	44050.870	4.0	49650.220	3.0
1785.4372	10.01	-4.39	318841.850	3.5	324441.190	2.5
1785.4882	10.01	-4.38	318841.890	4.5	324441.070	3.5
1785.4914	6.01	-.40	162524.570	1.5	168123.740	1.5
1785.4946	28.01	-3.84	131133.580	2.5	136732.740	1.5
1785.6509	18.01	.75	202544.320	2.5	208142.990	3.5
1785.6956	6.00	-2.34	64090.950	2.0	69689.480	1.0
1785.7574	26.00	-3.37	45281.816	2.0	50880.152	1.0
1785.9380	27.00	-4.86	48828.870	2.5	54426.640	1.5
1785.9635	6.00	-3.17	83752.410	1.0	89350.100	2.0
1785.9826	29.01	-.24	139217.300	2.0	144814.930	3.0
1786.0974	18.01	.17	202149.110	2.5	207746.380	2.5
1786.1453	10.01	-2.66	302425.870	1.5	308022.990	.5
1786.1801	14.00	-2.65	57328.789	1.0	62925.800	1.0
1786.2322	7.00	-3.46	110715.152	3.5	116312.000	2.5
1786.2762	23.02	-3.59	155569.100	2.5	161165.810	2.5
1786.3337	6.00	-2.39	80801.270	2.0	86397.800	3.0
1786.4518	25.00	-2.82	57487.080	2.5	63083.240	1.5
1786.6369	28.01	-1.06	128732.030	1.5	134327.610	2.5
1786.6679	20.00	-4.89	42170.214	2.0	47765.697	3.0
1786.7232	25.00	-2.68	57485.970	2.5	63081.280	2.5
1786.7778	20.00	-3.35	42170.558	3.0	47765.697	3.0
1786.9115	18.00	-4.35	119444.880	2.0	125039.600	1.0
1786.9272	20.00	-2.29	42171.026	4.0	47765.697	3.0
1786.9924	28.00	-1.32	45122.460	1.0	50716.927	1.0
1787.0582	7.00	-3.62	110710.739	2.5	116305.000	1.5
1787.0809	7.00	-.66	104810.330	2.5	110404.520	2.5
1787.0969	7.00	-3.38	104810.330	2.5	110404.470	1.5
1787.2054	17.01	-2.01	140740.000	1.0	146333.800	2.0
1787.2438	29.01	-.80	116388.000	2.0	121981.680	2.0
1787.4483	27.00	-4.61	23184.230	2.5	28777.270	3.5
1787.4515	18.01	-2.18	206132.660	4.5	211725.690	3.5
1787.4739	21.00	-2.80	33278.640	3.5	38871.600	2.5
1787.5123	18.01	-.80	194800.180	4.5	200393.020	4.5
1787.5378	6.00	-4.35	83926.370	4.0	89519.130	3.0
1787.6049	27.00	-3.28	46671.940	2.5	52264.490	1.5
1787.6877	14.00	-1.38	57328.789	1.0	62921.080	2.0
1787.7398	26.00	-3.24	48238.832	2.0	53830.960	3.0
1787.8159	7.00	.47	104881.320	3.5	110473.210	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1787.8287	28.01	.13	128732.030	1.5	134323.880	1.5
1787.8287	28.01	-.12	128732.030	1.5	134323.880	2.5
1787.8383	7.00	-.21	104810.330	2.5	110402.150	3.5
1787.9311	9.00	-.99	130374.860	1.5	135966.390	1.5
1787.9342	28.01	-4.91	130801.330	4.5	136392.850	3.5
1787.9726	24.00	-4.46	49617.610	5.0	55209.010	4.0
1787.9981	18.01	-2.12	202420.490	.5	208011.810	1.5
1788.0397	23.00	-2.63	32348.890	.5	37940.080	.5
1788.0461	28.01	-3.50	68709.760	.5	74300.930	1.5
1788.0653	23.00	-3.36	31398.090	2.5	36989.200	2.5
1788.0685	29.01	-3.14	140984.200	1.0	146575.300	2.0
1788.0746	26.00	-4.45	48475.740	3.0	54066.821	2.0
1788.1549	26.00	-3.63	48475.740	3.0	54066.570	4.0
1788.1549	12.01	-.98	110203.580	.5	115794.410	1.5
1788.1709	6.00	-3.78	83919.650	3.0	89510.430	2.0
1788.2284	24.00	-3.33	48661.590	3.0	54252.190	2.0
1788.4204	28.01	-1.49	100078.780	1.5	105668.780	2.5
1788.4204	17.01	-2.11	140740.000	1.0	146330.000	1.0
1788.4844	15.00	-2.00	69894.600	1.5	75484.400	2.5
1788.5580	27.00	-3.00	45971.190	3.5	51560.760	2.5
1788.6575	17.00	-2.17	95400.731	2.5	100989.990	3.5
1788.7307	18.00	-.80	114641.040	2.0	120230.070	2.0
1788.7532	28.01	-.81	130942.300	1.5	136531.260	1.5
1788.7660	27.00	-3.83	48837.720	.5	54426.640	1.5
1788.7916	6.00	-2.14	83761.260	3.0	89350.100	2.0
1788.8140	18.00	-2.28	114641.040	2.0	120229.810	3.0
1788.8774	14.00	-2.44	57541.918	1.0	63130.490	1.0
1788.9485	6.00	-3.32	72610.720	2.0	78199.070	2.0
1788.9580	24.00	-3.93	49620.690	4.0	55209.010	4.0
1789.0253	6.00	-1.24	80801.270	2.0	86389.380	2.0
1789.1264	28.00	-1.93	49185.146	2.0	54772.940	3.0
1789.1405	9.00	-2.02	130016.100	2.5	135603.850	2.5
1789.1437	27.00	-2.88	47128.960	2.5	52716.700	3.5
1789.2555	26.00	-4.91	45220.662	3.0	50808.053	4.0
1789.2654	27.00	-4.23	46872.740	3.5	52460.100	2.5
1789.3039	9.02	-3.26	384493.060	1.5	390080.300	1.5
1789.3343	12.00	-2.51	54676.438	3.0	60263.583	2.0
1789.3343	12.00	-3.73	54676.438	3.0	60263.583	3.0
1789.3519	6.00	-2.69	80782.510	1.0	86369.600	2.0
1789.3519	10.01	-.24	302307.750	2.5	307894.840	2.5
1789.3577	20.00	-3.38	42170.214	2.0	47757.286	2.0
1789.3656	26.00	-4.87	48221.323	1.0	53808.370	1.0
1789.4213	12.00	-3.67	54676.710	2.0	60263.583	2.0
1789.4213	12.00	-2.77	54676.710	2.0	60263.583	1.0
1789.4213	12.00	-3.88	54676.710	3.0	60263.583	3.0
1789.4213	12.00	-2.43	54676.710	4.0	60263.583	3.0
1789.4678	20.00	-2.47	42170.558	3.0	47757.286	2.0
1789.4864	24.00	-4.90	30965.460	3.0	36552.130	3.0
1789.5088	19.02	-1.42	241039.000	1.5	246625.600	1.5
1789.5665	12.01	-.72	110207.990	1.5	115794.410	2.5
1789.5665	12.01	-1.68	110207.990	1.5	115794.410	1.5
1789.6402	27.00	-3.30	46454.950	1.5	52041.140	.5
1789.6725	28.00	-3.01	51124.800	3.0	56710.889	2.0
1789.6882	28.01	-1.78	115870.280	2.5	121456.320	1.5
1789.7120	17.00	-2.70	94663.670	1.5	100249.636	2.5
1789.7171	7.00	-3.65	110521.050	1.5	116107.000	1.5
1789.8292	15.00	-3.49	75484.400	2.5	81070.000	1.5
1789.8452	16.01	-3.77	158666.450	1.5	164252.000	1.5
1789.8484	23.00	-2.27	31398.090	2.5	36983.630	1.5
1790.0131	28.00	-1.28	50689.490	2.0	56274.516	2.0
1790.0151	23.00	-3.27	20767.570	3.5	26352.590	2.5
1790.0215	24.00	-2.56	35501.260	3.0	41086.260	3.0
1790.0247	7.00	-2.31	106980.480	.5	112565.470	.5
1790.0491	7.00	-2.57	107253.106	2.5	112838.020	1.5
1790.1721	6.00	-3.67	83926.370	4.0	89510.900	3.0
1790.3100	24.00	-2.53	49620.690	4.0	55204.790	3.0
1790.4639	18.01	-1.85	209248.550	2.5	214832.170	3.5
1790.5248	18.01	.81	206148.940	3.5	211732.370	4.5
1790.5344	7.00	-3.67	104765.740	4.5	110349.140	3.5
1790.6034	17.00	-1.14	94663.670	1.5	100246.855	1.5
1790.7580	14.00	-2.28	57372.297	2.0	62955.000	2.0
1790.8421	20.00	-2.66	42170.214	2.0	47752.655	1.0
1790.9193	23.00	-2.42	32660.260	2.5	38242.460	3.5
1790.9312	14.00	-4.92	57372.297	2.0	62954.460	3.0
1791.0223	17.00	-4.67	94468.857	.5	100050.736	1.5
1791.0631	14.00	-4.26	59034.988	3.0	64616.740	2.0
1791.1083	26.00	-4.11	47812.104	4.0	53393.715	4.0
1791.1440	24.00	-4.84	44068.720	3.0	49650.220	3.0
1791.1626	14.00	-1.80	57541.918	1.0	63123.360	0.0
1791.2851	10.01	-2.58	302425.870	1.5	308006.930	.5
1791.3144	22.00	-2.36	34204.971	4.0	39785.940	4.0
1791.3815	29.01	-.42	114511.440	1.0	120092.200	2.0
1791.3975	18.01	-.41	209251.460	3.5	214832.170	3.5
1791.4441	18.00	-1.40	106087.305	1.0	111667.870	0.0
1791.4521	22.00	-2.10	41457.620	3.0	47038.160	3.0
1791.4672	18.00	-.91	106237.597	2.0	111818.090	1.0
1791.5420	29.01	.15	135664.340	1.0	141244.600	1.0
1791.6222	6.00	-1.74	80782.510	1.0	86362.520	1.0
1791.7571	18.01	-.77	205079.070	2.5	210658.660	2.5
1791.7924	18.01	-1.31	205079.070	2.5	210658.550	1.5
1791.8011	28.00	-3.19	48671.900	3.0	54251.353	3.0
1791.8053	7.00	-1.91	104825.080	2.5	110404.520	2.5
1791.8213	7.00	-1.37	104825.080	2.5	110404.470	1.5
1791.8374	6.00	-1.63	75255.270	2.0	80834.610	3.0
1791.8566	23.02	-4.28	156344.000	1.5	161923.280	2.5
1791.8856	7.01	-2.27	221141.610	3.0	226720.800	2.0
1791.8984	7.00	-3.46	110544.850	2.5	116124.000	2.5
1791.9273	27.00	-2.47	46685.430	1.5	52264.490	1.5
1791.9369	27.00	-2.70	40345.950	2.5	45924.980	3.5
1792.0879	7.01	-1.06	196592.070	1.0	202170.630	1.0
1792.1682	27.00	-4.05	46454.950	1.5	52033.260	1.5
1792.4166	7.00	-2.51	107182.788	1.5	112760.325	2.5
1792.4343	14.00	-4.33	58774.368	3.0	64351.850	3.0
1792.4703	23.00	-4.09	20767.570	3.5	26344.940	4.5
1792.5320	7.00	-1.93	107182.788	1.5	112759.966	1.5
1792.5667	7.00	-2.18	104825.080	2.5	110402.150	3.5
1792.6085	28.01	-4.96	130815.910	3.5	136392.850	3.5
1792.6696	18.01	-3.90	206148.940	3.5	211725.690	3.5
1792.6888	27.00	-3.72	47393.930	2.5	52970.620	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1792.6985	18.01	-2.29	206148.940	3.5	211725.600	2.5
1792.9075	9.02	-.57	452816.600	1.5	458392.610	1.5
1793.1679	15.00	.06	72493.800	1.5	78069.000	1.5
1793.2323	7.00	-2.06	104810.330	2.5	110385.330	2.5
1793.2323	7.00	-.62	104810.330	2.5	110385.330	3.5
1793.2451	17.00	-3.71	95597.593	.5	101172.553	1.5
1793.2644	28.01	-1.37	130942.300	1.5	136517.200	.5
1793.3426	22.00	-4.34	28596.293	1.0	34170.950	0.0
1793.3481	26.00	-4.23	48350.620	1.0	53925.260	1.0
1793.3886	26.00	-4.84	49108.876	4.0	54683.390	4.0
1793.4543	24.00	-3.36	48558.570	2.0	54132.880	3.0
1793.4896	18.01	-.82	206623.800	3.5	212198.000	3.5
1793.5250	18.01	.72	206623.800	3.5	212197.890	4.5
1793.5540	22.00	-2.58	40670.600	2.0	46244.600	2.0
1793.6087	18.01	-1.35	205056.220	1.5	210630.050	2.5
1793.6184	27.00	-4.27	47128.960	2.5	52702.760	1.5
1793.6538	7.00	-.45	104886.070	.5	110459.760	.5
1793.6538	7.00	-.69	104886.070	.5	110459.760	1.5
1793.7374	28.00	.06	50689.490	2.0	56262.920	3.0
1793.7519	26.00	.42	47755.485	3.0	53328.870	4.0
1793.7889	24.00	-3.26	29824.750	3.0	35398.020	4.0
1793.8468	18.01	.03	209338.210	3.5	214911.300	2.5
1793.8565	15.00	-3.85	66813.040	1.5	72386.100	2.5
1793.8916	14.00	-2.36	58311.659	0.0	63884.610	1.0
1793.9209	25.00	-4.44	51787.920	.5	57360.780	1.5
1793.9241	19.00	-1.27	24701.430	.5	30274.280	.5
1793.9531	22.00	-4.95	20062.980	1.0	25635.740	1.0
1794.0229	7.00	-1.36	107037.069	2.5	112609.612	1.5
1794.1334	15.00	-3.04	76192.300	1.5	81764.500	1.5
1794.1881	22.00	-.57	36208.920	4.0	41780.950	4.0
1794.2429	24.00	-4.92	44080.900	2.0	49652.760	2.0
1794.3717	27.00	-2.19	48217.320	3.5	53788.780	4.5
1794.3800	28.00	-3.22	44206.185	3.0	49777.619	3.0
1794.4061	7.00	-3.75	107253.106	2.5	112824.459	2.5
1794.4103	24.00	-4.53	21810.840	1.0	27382.180	2.0
1794.4941	25.00	-3.85	57512.160	1.5	63083.240	1.5
1794.5456	18.01	-2.43	194822.100	3.5	200393.020	4.5
1794.6648	22.00	-1.95	41624.130	4.0	47194.680	4.0
1794.6938	26.00	-4.59	47590.070	4.0	53160.530	3.0
1794.7937	21.00	-2.10	30706.610	1.5	36276.760	1.5
1794.8485	28.01	-4.38	130480.550	3.5	136050.530	2.5
1795.0021	14.00	-1.34	56780.427	1.0	62349.930	2.0
1795.0231	7.00	-1.61	106996.032	1.5	112565.470	.5
1795.0612	24.00	-4.45	44080.900	2.0	49650.220	3.0
1795.3803	6.00	-1.49	80801.270	2.0	86369.600	2.0
1795.5151	26.00	-4.75	46137.140	3.0	51705.052	2.0
1795.7363	26.00	-3.15	45333.834	2.0	50901.060	2.0
1795.7902	7.00	-4.73	105143.680	2.5	110710.739	2.5
1795.9018	26.00	-2.53	45061.287	3.0	50628.000	3.0
1795.9254	6.00	-2.22	69689.480	1.0	75256.120	0.0
1796.0253	18.01	.61	206631.670	2.5	212198.000	3.5
1796.1151	10.00	-1.73	163401.301	0.0	168967.353	1.0
1796.1996	6.00	-3.89	69689.480	1.0	75255.270	2.0
1796.2900	24.00	-4.97	41393.470	5.0	46958.980	5.0
1796.3449	28.01	-4.89	130314.070	2.5	135879.410	3.5
1796.3610	22.00	-.58	39640.980	3.0	45206.270	3.0
1796.3784	28.00	-3.71	48671.900	3.0	54237.136	4.0
1796.4191	10.01	-1.67	301855.710	2.5	307420.820	2.5
1796.4353	26.00	-4.75	47590.070	4.0	53155.130	4.0
1796.4578	14.00	-4.49	58786.860	3.0	64351.850	3.0
1796.6193	6.00	-2.65	69689.480	1.0	75253.970	1.0
1796.6522	26.00	-4.67	51294.262	3.0	56858.650	2.0
1796.6994	26.00	-3.86	48702.518	4.0	54266.760	5.0
1796.7871	17.00	-.85	90749.360	2.5	96313.330	1.5
1796.8292	24.00	-4.91	44088.920	1.0	49652.760	2.0
1796.9509	14.00	-1.27	57372.297	2.0	62935.760	3.0
1796.9519	23.00	-2.65	20789.130	2.5	26352.590	2.5
1797.0036	13.01	.11	144780.200	2.0	150343.500	3.0
1797.0391	6.00	-1.02	80834.610	3.0	86397.800	3.0
1797.0624	26.00	-2.58	47606.092	5.0	53169.210	6.0
1797.1102	14.00	-2.78	58788.880	4.0	64351.850	3.0
1797.1457	22.01	-3.35	59321.790	2.5	64884.650	2.5
1797.2943	22.00	-2.95	34078.580	3.0	39640.980	3.0
1797.3751	7.00	-4.61	110544.850	2.5	116107.000	1.5
1797.5399	28.01	-3.88	71770.830	2.5	77332.470	2.5
1797.5916	6.00	-4.06	83820.130	1.0	89381.610	0.0
1797.6660	6.00	-2.31	80801.270	2.0	86362.520	1.0
1797.9893	7.00	-.20	104825.080	2.5	110385.330	2.5
1797.9893	7.00	-1.62	104825.080	2.5	110385.330	3.5
1798.0068	17.00	-2.34	95612.357	1.5	101172.553	1.5
1798.1672	15.00	-1.37	69924.700	2.5	75484.400	2.5
1798.1930	28.01	-4.82	134274.620	5.5	139834.240	6.5
1798.2603	7.00	-3.27	107253.106	2.5	112812.518	2.5
1798.2739	25.00	-3.80	50931.420	2.5	56490.790	2.5
1798.3334	26.00	-3.83	47834.529	5.0	53393.715	4.0
1798.3742	6.00	-2.79	83791.040	2.0	89350.100	2.0
1798.4615	24.00	-4.17	49650.220	3.0	55209.010	4.0
1798.4939	28.01	-3.03	70358.940	4.5	75917.630	3.5
1798.5466	22.00	-3.33	33655.853	2.0	39214.380	3.0
1798.5651	28.01	-4.15	130320.940	3.5	135879.410	3.5
1798.5942	22.00	-3.92	36065.750	3.0	41624.130	4.0
1798.6266	24.00	-4.73	41224.780	4.0	46783.060	4.0
1798.6628	14.00	-1.82	57798.072	2.0	63356.240	2.0
1798.6977	23.00	-2.23	15270.420	1.5	20828.480	2.5
1798.7398	27.00	-3.85	46002.830	2.5	51560.760	2.5
1798.9275	23.00	-9.50	10892.500	3.5	16449.850	2.5
1798.9438	17.02	-4.80	198983.900	1.5	204541.200	2.5
1799.0256	12.00	-3.54	54706.536	1.0	60263.583	2.0
1799.0538	24.00	-4.07	33040.100	2.0	38597.060	1.0
1799.3226	14.00	-1.56	59118.030	3.0	64674.160	4.0
1799.5454	14.00	-1.16	57541.918	1.0	63097.360	1.0
1799.7631	6.00	-2.21	80834.610	3.0	86389.380	2.0
1799.7858	28.01	-4.81	130324.710	4.5	135879.410	3.5
1799.8107	22.00	-4.38	38699.767	2.0	44254.390	3.0
1799.8214	25.00	-4.88	56189.450	4.5	61744.040	5.5
1799.8214	7.01	.46	221141.610	3.0	226696.200	4.0
1799.8279	24.00	-3.01	49650.220	3.0	55204.790	3.0
1799.9219	25.00	-4.35	46083.890	1.5	51638.170	2.5
1799.9566	7.00	-1.79	107182.788	1.5	112736.961	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1799.9770	19.00	-.97	24720.170	1.5	30274.280	.5
1800.0386	18.01	-3.38	199525.150	1.5	205079.070	2.5
1800.1585	24.00	-4.96	40971.290	2.0	46524.840	2.0
1800.1779	24.00	-2.15	28637.000	3.0	34190.490	2.0
1800.2450	28.00	-3.78	45281.152	3.0	50834.435	2.0
1800.6513	24.00	-4.34	49652.760	2.0	55204.790	3.0
1800.6708	24.00	-4.17	44068.720	3.0	49620.690	4.0
1800.7291	29.01	-.17	139331.300	3.0	144883.090	2.0
1800.7551	6.00	-4.49	83747.390	2.0	89299.100	3.0
1800.7908	15.00	.26	66834.500	1.5	72386.100	2.5
1800.8258	14.00	-2.37	57541.918	1.0	63093.410	2.0
1800.9692	18.01	-3.21	205079.070	2.5	210630.120	3.5
1800.9919	18.01	-.15	205079.070	2.5	210630.050	2.5
1801.0016	24.00	-4.74	41086.260	3.0	46637.210	3.0
1801.0221	28.00	-1.49	45281.152	3.0	50832.039	3.0
1801.0243	28.01	-3.39	130480.550	3.5	136031.430	2.5
1801.0922	26.00	-4.81	48516.150	1.0	54066.821	2.0
1801.1477	17.01	-3.56	145468.500	1.0	151019.000	2.0
1801.1898	23.00	-4.71	32692.090	3.5	38242.460	3.5
1801.1931	27.00	-2.89	47225.110	3.5	52775.470	4.5
1801.1996	28.01	.10	122441.220	4.5	127991.560	3.5
1801.4365	28.01	-3.15	115565.980	2.5	121115.590	1.5
1801.4901	8.00	-2.88	102928.355	4.0	108477.800	3.0
1801.5955	6.00	-1.55	80782.510	1.0	86331.630	1.0
1801.6222	26.00	-2.97	47606.092	5.0	53155.130	4.0
1801.6345	17.01	-3.15	126219.000	3.0	131768.000	2.0
1801.8651	25.00	-3.62	46169.930	.5	51718.220	1.5
1801.8745	7.00	-4.20	110710.739	2.5	116259.000	2.5
1801.8855	26.00	-4.44	45913.480	3.0	51461.707	4.0
1801.9836	7.00	-2.72	107253.106	2.5	112801.031	1.5
1802.0525	8.00	-3.10	97420.642	4.0	102968.355	3.0
1802.0804	8.00	-3.53	97420.728	3.0	102968.355	2.0
1802.0804	8.00	-1.79	97420.728	3.0	102968.355	3.0
1802.0827	18.00	-4.41	114641.040	2.0	120188.660	2.0
1802.0830	8.00	-1.16	97420.642	4.0	102968.261	3.0
1802.0830	8.00	.01	97420.642	4.0	102968.261	4.0
1802.0830	8.00	.88	97420.642	4.0	102968.261	5.0
1802.1110	8.00	-.91	97420.728	3.0	102968.261	2.0
1802.1110	8.00	.13	97420.728	3.0	102968.261	3.0
1802.1110	8.00	.70	97420.728	3.0	102968.261	4.0
1802.1204	8.00	-2.09	97420.851	2.0	102968.355	2.0
1802.1204	8.00	-1.06	97420.851	2.0	102968.355	3.0
1802.1282	23.00	-2.41	32456.450	1.5	38003.930	1.5
1802.1509	8.00	-.88	97420.851	2.0	102968.261	1.0
1802.1509	8.00	.12	97420.851	2.0	102968.261	2.0
1802.1509	8.00	.52	97420.851	2.0	102968.261	3.0
1802.1539	8.00	-1.79	97420.954	1.0	102968.355	2.0
1802.1542	27.00	-2.86	40827.770	1.5	46375.170	1.5
1802.1607	10.01	-3.10	302475.610	.5	308022.990	.5
1802.1844	8.00	-.02	97420.954	1.0	102968.261	1.0
1802.1844	8.00	.29	97420.954	1.0	102968.261	2.0
1802.1867	6.00	-2.00	75253.970	1.0	80801.270	2.0
1802.1867	18.00	-2.06	114641.040	2.0	120188.340	1.0
1802.1935	28.00	-4.28	49185.146	2.0	54732.425	2.0
1802.2003	8.00	-.01	97421.003	0.0	102968.261	1.0
1802.3296	28.01	-4.92	116145.690	3.5	121692.550	4.5
1802.5275	22.00	-3.31	33980.639	2.0	39526.890	2.0
1802.6058	22.00	-4.41	41917.050	4.0	47463.060	4.0
1802.6091	6.00	-2.10	75255.270	2.0	80801.270	2.0
1802.6480	14.00	-1.54	59118.030	3.0	64663.910	4.0
1802.6578	25.00	-4.29	57305.620	3.5	62851.470	3.5
1802.7095	14.00	-1.27	57328.789	1.0	62874.480	2.0
1802.7293	17.00	-2.13	96313.330	1.5	101858.960	2.5
1802.7391	30.02	-1.50	257566.100	1.0	263111.700	0.0
1802.7849	11.00	-2.20	34548.731	2.5	40094.190	2.5
1802.7849	11.00	-.90	34548.731	2.5	40094.190	3.5
1802.7963	11.00	-1.06	34548.766	1.5	40094.190	2.5
1802.8334	18.01	.61	202149.110	2.5	207694.420	3.5
1802.8919	17.00	-1.61	92194.190	1.5	97739.320	1.5
1802.9244	25.00	-4.37	57360.780	1.5	62905.810	2.5
1802.9658	10.00	-1.07	161524.174	1.0	167069.077	2.0
1802.9830	17.00	-3.05	92194.190	1.5	97739.040	.5
1802.9862	19.00	-1.80	27397.100	2.5	32941.940	1.5
1802.9928	7.00	-.91	104859.700	1.5	110404.520	2.5
1803.0089	7.00	-.24	104859.700	1.5	110404.470	1.5
1803.0414	18.01	-1.05	202467.140	1.5	208011.810	1.5
1803.0580	7.00	-1.09	107253.106	2.5	112797.725	3.5
1803.0610	6.00	-2.82	69710.660	2.0	75255.270	2.0
1803.2301	28.01	-2.87	107142.210	1.5	112686.300	2.5
1803.3245	19.00	-2.75	27398.140	1.5	32941.940	1.5
1803.3505	22.00	-.85	36351.430	5.0	41895.150	5.0
1803.3829	9.00	-1.16	130141.650	1.5	135685.270	1.5
1803.4285	27.00	-3.67	47091.140	.5	52634.620	.5
1803.4545	13.01	-3.71	139588.700	4.0	145132.100	4.0
1803.4545	13.01	-3.85	139588.700	4.0	145132.100	4.0
1803.4545	13.01	-2.18	139588.700	5.0	145132.100	4.0
1803.4838	6.00	-1.90	69710.660	2.0	75253.970	1.0
1803.5522	15.00	-.81	66834.500	1.5	72377.600	.5
1803.5798	10.00	.01	161509.630	0.0	167052.645	1.0
1803.6856	14.01	-1.91	122655.510	3.5	128198.200	3.5
1803.6856	14.01	-.37	122655.510	3.5	128198.200	4.5
1803.7058	14.00	-2.49	57798.072	2.0	63340.700	3.0
1803.7247	14.01	-.48	122655.630	2.5	128198.200	3.5
1803.7767	24.00	-2.23	24282.340	4.0	29824.750	3.0
1803.8743	18.01	-.97	205100.530	5.5	210642.640	5.5
1803.8809	24.00	-1.92	35501.260	3.0	41043.350	3.0
1803.8874	19.00	-2.05	27398.140	1.5	32940.210	.5
1803.8874	18.01	.92	205100.530	5.5	210642.600	6.5
1803.8935	28.00	-.49	49032.589	2.0	54574.640	1.0
1803.8939	22.00	-4.97	20062.980	1.0	25605.030	0.0
1803.9606	8.00	-4.58	102928.355	4.0	108470.200	3.0
1803.9730	26.00	-3.93	46672.523	0.0	52214.330	1.0
1804.0730	18.00	-1.82	120753.520	3.0	126295.020	3.0
1804.1119	18.00	-1.95	120753.520	3.0	126294.900	3.0
1804.1119	18.00	-.51	120753.520	3.0	126294.900	4.0
1804.1120	23.00	-2.13	21646.390	3.5	27187.770	2.5
1804.2074	14.00	-2.31	56690.903	2.0	62231.990	2.0
1804.3269	27.00	-4.84	43537.710	1.5	49078.430	1.5
1804.3399	6.00	-2.55	79310.850	2.0	84851.530	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1804.4962	13.01	-3.84	139588.700	3.0	145128.900	3.0
1804.4962	13.01	-1.93	139588.700	4.0	145128.900	3.0
1804.4962	13.01	-1.40	139588.700	4.0	145128.900	3.0
1804.6917	23.00	-3.57	20812.990	1.5	26352.590	2.5
1804.7471	6.00	-1.27	80782.510	1.0	86321.940	0.0
1804.8676	18.01	-2.49	198594.920	3.5	204133.980	2.5
1804.8904	27.00	-4.48	46502.150	.5	52041.140	.5
1804.9491	7.00	-.21	104810.330	2.5	110349.140	3.5
1804.9751	7.00	-1.77	104810.330	2.5	110349.060	2.5
1805.0273	27.00	-3.34	47225.110	3.5	52763.680	3.5
1805.0403	28.01	-1.86	116261.810	.5	121800.340	1.5
1805.1088	18.01	.85	205104.320	4.5	210642.640	5.5
1805.2391	6.00	-2.28	82251.710	0.0	87789.630	1.0
1805.2587	7.00	-4.21	110349.140	3.5	115887.000	2.5
1805.2652	6.00	-2.99	83761.260	3.0	89299.100	3.0
1805.2782	13.01	-2.41	139588.700	3.0	145126.500	2.0
1805.3109	13.01	-.99	143262.700	2.0	148800.400	3.0
1805.3213	17.00	-3.05	90948.530	1.5	96486.198	1.5
1805.3692	14.00	-2.08	59109.959	3.0	64647.480	3.0
1805.3924	18.01	-1.96	203730.860	1.5	209268.310	1.5
1805.4058	17.00	-1.12	95995.561	.5	101532.970	1.5
1805.4185	6.00	-2.67	72610.720	2.0	78148.090	2.0
1805.4413	13.01	-1.17	139242.900	3.0	144780.200	2.0
1805.5685	22.00	-.58	39526.890	2.0	45063.800	2.0
1805.5718	13.01	-1.32	143170.000	1.0	148706.900	0.0
1805.5974	14.00	-3.43	59109.959	3.0	64646.780	2.0
1805.6075	7.01	-2.36	221141.610	3.0	226678.400	2.0
1805.6337	24.00	-3.22	43124.880	2.0	48661.590	3.0
1805.6734	14.00	-3.20	59110.892	2.0	64647.480	3.0
1805.7576	7.00	-4.71	105008.520	2.5	110544.850	2.5
1805.8000	9.00	-1.85	130149.070	.5	135685.270	1.5
1805.8153	28.00	-3.64	48715.200	4.0	54251.353	3.0
1805.9018	14.00	-3.88	59110.892	2.0	64646.780	2.0
1805.9044	28.01	-1.73	112906.930	1.5	118442.810	1.5
1805.9500	14.00	-4.09	57450.580	3.0	62986.320	2.0
1806.0326	14.00	-2.39	56690.903	2.0	62226.390	1.0
1806.1491	6.00	-1.04	80782.510	1.0	86317.640	2.0
1806.1948	6.00	-.66	80834.610	3.0	86369.600	2.0
1806.2372	6.00	-.42	80834.610	3.0	86369.470	4.0
1806.2764	28.01	-.14	128799.720	.5	134334.460	1.5
1806.3677	23.00	-4.95	31541.180	3.5	37075.640	4.5
1806.3938	7.01	-1.33	221141.610	3.0	226675.990	3.0
1806.4007	17.00	-3.92	90948.530	1.5	96482.889	2.5
1806.4363	22.00	-2.40	33680.130	3.0	39214.380	3.0
1806.5244	18.01	-.59	196621.880	3.5	202155.860	2.5
1806.8836	24.00	-4.42	49453.940	4.0	54986.820	3.0
1806.9261	6.00	-2.51	79318.780	1.0	84851.530	1.0
1806.9489	6.00	-3.71	83986.450	4.0	89519.130	3.0
1807.0110	7.01	-4.84	221163.710	4.0	226696.200	4.0
1807.0697	17.00	-2.96	96313.330	1.5	101845.640	1.5
1807.2233	28.01	-1.40	100490.950	1.5	106022.790	.5
1807.2560	14.00	-1.69	56700.250	1.0	62231.990	2.0
1807.3932	10.01	-1.37	302475.610	.5	308006.930	.5
1807.4226	28.01	-.36	128803.230	2.5	134334.460	1.5
1807.4618	27.00	-4.21	46502.150	.5	52033.260	1.5
1807.4650	13.01	-2.04	142601.600	3.0	148132.700	2.0
1807.4748	18.01	-3.97	199525.150	1.5	205056.220	1.5
1807.4977	22.00	-3.01	41194.420	3.0	46725.420	3.0
1807.5304	13.01	-.02	144780.200	2.0	150311.100	3.0
1807.5572	26.00	-4.72	26406.490	1.0	31937.308	1.0
1807.6187	27.00	-2.60	40345.950	2.5	45876.580	2.5
1807.6285	13.01	-2.41	143269.800	3.0	148800.400	3.0
1807.6285	13.01	-2.74	143269.800	3.0	148800.400	4.0
1807.6285	13.01	-.75	143269.800	3.0	148800.400	4.0
1807.7070	6.00	-.94	80801.270	2.0	86331.630	1.0
1807.7298	18.01	.56	205079.070	2.5	210609.360	3.5
1807.8023	14.00	-3.24	59131.912	4.0	64661.980	3.0
1807.8344	6.00	-4.27	83820.130	1.0	89350.100	2.0
1808.0338	24.00	-3.08	44068.720	3.0	49598.080	2.0
1808.0901	17.00	-3.65	94973.683	.5	100502.871	1.5
1808.1418	18.00	-.93	118512.170	0.0	124041.200	1.0
1808.1483	27.00	-2.78	48753.720	1.5	54282.730	2.5
1808.2104	7.01	-3.60	221167.380	4.0	226696.200	4.0
1808.2726	7.01	-4.70	221167.570	5.0	226696.200	4.0
1808.3020	6.00	-2.35	75253.970	1.0	80782.510	1.0
1808.3207	10.00	.35	161524.174	1.0	167052.657	2.0
1808.3230	18.00	-3.96	118407.494	1.0	123935.970	1.0
1808.3246	10.00	-.16	161524.174	1.0	167052.645	1.0
1808.4133	15.00	-1.80	75705.400	3.5	81233.600	3.5
1808.4198	23.00	-2.63	15078.250	.5	20606.430	.5
1808.4329	25.01	-3.68	33278.390	3.0	38806.530	4.0
1808.5964	6.00	-4.71	83919.760	2.0	89447.400	2.0
1808.7273	6.00	-2.84	75255.270	2.0	80782.510	1.0
1809.0055	6.00	-2.32	75256.120	0.0	80782.510	1.0
1809.0229	26.00	-3.60	48304.623	2.0	53830.960	3.0
1809.0874	14.00	-1.47	56700.250	1.0	62226.390	1.0
1809.1692	6.00	-.63	80801.270	2.0	86327.160	3.0
1809.1987	18.01	-1.94	205104.320	4.5	210630.120	3.5
1809.2543	7.00	.33	104859.700	1.5	110385.330	2.5
1809.2641	13.01	-.98	142607.000	2.0	148132.600	3.0
1809.2717	22.00	-4.89	37622.573	3.0	43148.150	3.0
1809.3820	24.00	-4.45	21856.940	3.0	27382.180	2.0
1809.3984	7.01	-4.94	221163.710	4.0	226688.900	5.0
1809.4358	17.00	-2.55	91069.020	.5	96594.096	.5
1809.4377	24.00	-3.03	48507.560	1.0	54032.630	2.0
1809.5065	24.00	-3.23	24299.890	2.0	29824.750	3.0
1809.5104	7.00	-4.96	110715.152	3.5	116240.000	2.5
1809.6407	6.00	-4.56	83986.450	4.0	89510.900	3.0
1809.6473	22.00	-4.70	41757.470	3.0	47281.900	3.0
1809.6637	28.01	-.65	128803.230	2.5	134327.610	2.5
1809.6866	28.01	-1.88	128803.230	2.5	134327.540	3.5
1809.7194	6.00	-4.72	83986.220	3.0	89510.430	2.0
1809.7358	28.01	-.66	128799.720	.5	134323.880	1.5
1809.7456	28.01	-3.59	100609.010	2.5	106133.140	1.5
1809.7685	7.00	.20	104825.080	2.5	110349.140	3.5
1809.7948	7.00	-1.07	104825.080	2.5	110349.060	2.5
1809.8242	28.01	-1.28	100845.410	.5	106369.300	1.5
1809.8967	26.00	-3.61	46313.610	2.0	51837.279	3.0
1810.0503	7.00	-2.24	104881.320	3.5	110404.520	2.5

WAVELENGTH	ELEH	LOGGF	ELO	JLO	EUP	JUP
1810.0733	18.01	-2.36	183914.560	.5	189437.690	.5
1810.1683	18.01	-2.03	196633.020	2.5	202155.860	2.5
1810.3587	17.00	-1.87	97004.081	1.5	102526.340	2.5
1810.4647	28.00	-2.44	48715.200	4.0	54237.136	4.0
1810.5093	15.01	-2.61	125391.900	4.0	130913.700	3.0
1810.6470	16.00	-2.51	74972.250	4.0	80493.630	3.0
1810.6470	16.00	-1.33	74972.250	4.0	80493.630	4.0
1810.6470	16.00	-.47	74972.250	4.0	80493.630	5.0
1810.6634	7.01	-3.56	221167.570	5.0	226688.900	5.0
1810.7061	6.00	-4.44	83926.200	3.0	89447.400	2.0
1810.7401	17.00	-4.17	95706.534	1.5	101227.630	.5
1810.8070	14.00	-3.68	58774.368	3.0	64295.260	3.0
1810.8273	7.00	-.67	104881.320	3.5	110402.150	3.5
1810.8339	24.00	-2.55	24303.940	3.0	29824.750	3.0
1810.8569	7.00	-1.16	104881.320	3.5	110402.060	4.5
1810.8864	28.01	.06	128803.230	2.5	134323.880	1.5
1810.8864	28.01	.46	128803.230	2.5	134323.880	2.5
1810.9586	16.00	-2.21	74973.200	3.0	80493.630	2.0
1810.9586	16.00	-1.19	74973.200	3.0	80493.630	3.0
1810.9586	16.00	-.63	74973.200	3.0	80493.630	4.0
1811.0891	17.00	-2.68	94827.150	2.5	100347.182	2.5
1811.1531	28.00	-2.30	43654.974	3.0	49174.811	4.0
1811.1652	13.01	-2.30	143280.600	4.0	148800.400	4.0
1811.1652	13.01	-2.44	143280.600	4.0	148800.400	4.0
1811.1652	13.01	-.77	143280.600	4.0	148800.400	5.0
1811.1652	13.01	-3.86	143280.600	4.0	148800.400	3.0
1811.2079	9.02	-.08	452816.600	1.5	458336.270	.5
1811.2145	28.01	-2.83	115592.250	1.5	121111.900	.5
1811.2397	10.00	-4.76	167052.657	2.0	172572.230	3.0
1811.2670	22.00	-3.11	36065.750	3.0	41585.240	3.0
1811.2686	10.00	-4.94	167052.645	1.0	172572.130	2.0
1811.2965	28.01	-1.87	130174.030	1.5	135693.430	2.5
1811.3294	16.00	-2.21	74974.330	2.0	80493.630	1.0
1811.3294	16.00	-1.21	74974.330	2.0	80493.630	2.0
1811.3294	16.00	-.83	74974.330	2.0	80493.630	3.0
1811.4443	18.01	-3.37	196089.870	2.5	201608.820	3.5
1811.4541	27.00	-2.21	43199.650	2.5	48718.570	2.5
1811.5949	26.00	-3.45	47834.529	5.0	53353.020	6.0
1811.6182	16.00	-1.36	74975.210	1.0	80493.630	1.0
1811.6182	16.00	-1.06	74975.210	1.0	80493.630	2.0
1811.6248	7.00	-.24	104886.070	.5	110404.470	1.5
1811.6674	28.01	-.93	128818.410	6.5	134336.680	5.5
1811.6954	10.00	-3.88	167052.645	1.0	172570.830	1.0
1811.6993	10.00	-4.59	167052.657	2.0	172570.830	1.0
1811.7857	14.00	-.81	57450.580	3.0	62968.490	4.0
1811.8119	16.00	-1.36	74975.800	0.0	80493.630	1.0
1811.8218	25.00	-2.64	57621.900	1.5	63139.700	2.5
1811.8864	28.00	-3.76	46522.965	2.0	52040.568	2.0
1811.9600	14.00	-2.12	57295.881	0.0	62813.260	1.0
1811.9741	17.00	-2.41	94732.300	3.5	100249.636	2.5
1812.0254	24.00	-3.73	44080.900	2.0	49598.080	2.0
1812.1515	17.00	-4.31	95706.534	1.5	101223.330	2.5
1812.1683	10.00	-4.58	167052.645	1.0	172569.390	2.0
1812.1689	9.00	-3.65	118405.267	.5	123922.010	1.5
1812.1716	20.00	-2.08	42514.845	0.0	48031.580	1.0
1812.1722	10.00	-3.63	167052.657	2.0	172569.390	2.0
1812.2356	28.01	-.97	131032.010	2.5	136548.550	2.5
1812.2875	14.00	-4.81	59034.988	3.0	64551.370	4.0
1812.2914	6.00	-3.28	80801.270	2.0	86317.640	2.0
1812.4491	28.01	-2.36	113407.310	2.5	118923.200	3.5
1812.4689	18.01	-1.09	206245.570	3.5	211761.400	3.5
1812.4755	18.01	.46	206245.570	3.5	211761.380	4.5
1812.5550	14.00	-2.29	59131.912	4.0	64647.480	3.0
1812.5707	28.01	-.61	115870.280	2.5	121385.800	1.5
1812.6890	28.01	-3.52	130470.900	4.5	135986.060	3.5
1812.7022	28.01	-.75	131032.010	2.5	136547.130	3.5
1812.7416	28.01	-2.14	128818.410	6.5	134333.410	5.5
1812.7416	28.01	-2.37	128818.410	6.5	134333.410	6.5
1812.7742	18.00	-3.46	116999.389	2.0	122514.290	1.0
1812.8383	28.00	-1.53	49185.146	2.0	54699.852	3.0
1812.8436	7.01	-3.55	221163.710	3.0	226678.400	2.0
1812.8732	15.00	-.05	72618.000	.5	78132.600	.5
1812.8988	20.00	-2.33	42518.708	1.0	48033.230	2.0
1812.9628	14.00	-3.23	59037.043	4.0	64551.370	4.0
1812.9783	18.01	-4.55	199679.760	2.5	205194.040	1.5
1813.0441	29.01	-3.27	117231.690	1.0	122745.770	2.0
1813.1263	18.01	.70	203501.800	2.5	209015.630	3.5
1813.1592	29.01	.19	133727.870	2.0	139241.600	1.0
1813.2328	22.00	-3.29	33700.874	4.0	39214.380	3.0
1813.2348	15.00	-4.53	70391.600	2.5	75905.100	2.5
1813.2940	24.00	-2.24	35572.940	2.0	41086.260	3.0
1813.3153	10.00	-3.88	167052.645	1.0	172565.900	1.0
1813.3193	10.00	-3.18	167052.657	2.0	172565.900	1.0
1813.4413	20.00	-2.68	42518.708	1.0	48031.580	1.0
1813.5802	27.00	-2.83	45688.150	2.5	51200.600	1.5
1813.6032	26.00	-3.91	48361.920	4.0	53874.300	5.0
1813.6362	7.01	-4.97	221163.710	3.0	226675.990	3.0
1813.6362	7.01	-3.49	221163.710	4.0	226675.990	3.0
1813.6510	10.00	-3.58	167052.645	1.0	172564.880	0.0
1813.6526	28.01	.15	128822.230	1.5	134334.460	1.5
1813.6556	18.00	-2.41	121011.979	1.0	126524.200	0.0
1813.6821	6.00	-4.77	84013.400	2.0	89525.540	1.0
1813.7216	6.00	-3.43	83838.080	2.0	89350.100	2.0
1813.8961	28.01	-1.43	131093.300	4.5	136604.790	3.5
1813.9158	27.00	-3.26	45688.150	2.5	51199.580	3.5
1813.9784	6.00	-1.72	69744.030	3.0	75255.270	2.0
1814.0376	28.01	-1.10	130184.610	5.5	135695.670	4.5
1814.0376	24.00	-3.40	28679.430	1.0	34190.490	2.0
1814.2341	17.00	-4.21	95534.923	.5	101045.386	1.5
1814.2977	28.01	-1.23	131032.010	2.5	136542.280	3.5
1814.3053	14.00	-3.18	54871.031	1.0	60381.278	1.0
1814.3602	25.00	-4.44	51718.220	1.5	57228.300	.5
1814.3800	18.01	-1.96	194883.000	3.5	200393.020	4.5
1814.4524	28.01	-4.94	130236.260	2.5	135746.060	3.5
1814.4590	24.00	-4.36	49477.040	2.0	54986.820	3.0
1814.4656	22.01	-3.26	59467.810	3.5	64977.570	3.5
1814.4686	17.00	-1.65	92194.190	1.5	97703.941	2.5
1814.5114	20.00	-1.50	42526.591	2.0	48036.212	3.0
1814.5384	8.00	-4.90	102968.261	3.0	108477.800	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1814.5384	8.00	-4.70	102968.261	4.0	108477.800	3.0
1814.5414	28.01	-.63	128827.150	3.5	134336.680	4.5
1814.5512	13.01	-.84	144638.900	2.0	150148.400	2.0
1814.5512	13.01	-.10	144638.900	1.0	150148.400	2.0
1814.5512	13.01	-.30	144638.900	2.0	150148.400	3.0
1814.5512	13.01	-2.38	144638.900	3.0	150148.400	2.0
1814.5512	13.01	-1.20	144638.900	3.0	150148.400	3.0
1814.5512	13.01	.23	144638.900	3.0	150148.400	4.0
1814.5677	17.00	-2.11	92194.190	1.5	97703.640	1.5
1814.5694	8.00	-3.13	102968.355	2.0	108477.800	1.0
1814.5694	8.00	-3.86	102968.355	2.0	108477.800	2.0
1814.5694	8.00	-2.96	102968.355	3.0	108477.800	2.0
1814.5694	8.00	-3.87	102968.355	3.0	108477.800	3.0
1814.6593	7.00	-1.17	107182.788	1.5	112691.960	.5
1814.6632	24.00	-4.34	44088.920	1.0	49598.080	2.0
1814.6665	6.00	-3.80	84013.250	3.0	89522.400	2.0
1814.7028	28.01	-1.19	130184.390	2.5	135693.430	2.5
1814.7028	28.01	-.75	130184.390	2.5	135693.430	3.5
1814.7291	28.01	-3.68	130184.610	5.5	135693.570	4.5
1814.7291	28.01	.13	130184.610	5.5	135693.570	5.5
1814.7400	26.00	-2.87	43022.969	4.0	48531.896	3.0
1814.7851	18.00	-2.16	119566.110	3.0	125074.900	2.0
1814.8015	18.01	-1.85	205100.530	5.5	210609.270	4.5
1814.8098	26.00	-4.65	48238.832	2.0	53747.547	3.0
1814.9136	14.00	-4.23	58786.860	3.0	64295.260	3.0
1814.9433	24.00	-2.45	28682.180	2.0	34190.490	2.0
1814.9498	18.01	-3.16	167307.920	.5	172816.210	.5
1815.0223	24.00	-3.20	44080.900	2.0	49588.970	1.0
1815.0257	6.00	-1.86	83791.040	2.0	89299.100	3.0
1815.0882	24.00	-4.58	49466.770	2.0	54974.640	2.0
1815.1173	10.00	-2.78	167060.301	4.0	172568.083	3.0
1815.1399	8.00	-1.81	97420.642	4.0	102928.355	4.0
1815.1476	24.00	-4.89	49310.860	3.0	54818.550	2.0
1815.1683	8.00	-.46	97420.728	3.0	102928.355	4.0
1815.1907	10.00	-4.33	167060.301	4.0	172567.860	4.0
1815.1927	10.00	-2.69	167060.307	5.0	172567.860	4.0
1815.2728	17.00	-3.60	94663.670	1.5	100170.980	1.5
1815.3028	7.00	-1.72	107253.106	2.5	112760.325	2.5
1815.3223	18.01	-1.97	205100.530	5.5	210607.690	4.5
1815.3321	27.00	-3.26	46562.870	1.5	52070.000	2.5
1815.3453	25.00	-4.97	56567.930	1.5	62075.020	2.5
1815.3684	18.01	-.15	205100.530	5.5	210607.550	5.5
1815.3783	18.01	.89	202429.840	3.5	207936.830	4.5
1815.4212	7.00	-4.57	107253.106	2.5	112759.966	1.5
1815.4472	14.00	-3.31	59109.959	3.0	64616.740	2.0
1815.4476	6.00	-2.00	78529.620	3.0	84036.400	2.0
1815.4607	28.01	1.14	128818.410	6.5	134325.150	7.5
1815.4941	20.00	-2.21	42526.591	2.0	48033.230	2.0
1815.5695	28.01	-3.25	130470.900	4.5	135977.310	4.5
1815.5794	14.00	-3.19	58788.880	4.0	64295.260	3.0
1815.5860	28.01	-.88	128827.050	7.5	134333.410	6.5
1815.6486	18.01	.34	206255.230	2.5	211761.400	3.5
1815.6717	17.00	-1.52	85442.430	1.5	90948.530	1.5
1815.6981	6.00	-2.08	72610.720	2.0	78116.740	1.0
1815.7146	28.01	-4.34	100332.090	4.5	105838.060	3.5
1815.7548	14.00	-4.48	59110.892	2.0	64616.740	2.0
1815.7838	28.01	-1.71	130187.810	6.5	135693.570	5.5
1815.8102	28.01	-2.20	100475.820	3.5	105981.500	4.5
1815.8267	27.00	-3.77	45105.590	3.5	50611.220	3.5
1815.8334	20.01	-.60	78034.390	3.5	83540.000	3.5
1815.8334	20.01	.94	78034.390	3.5	83540.000	4.5
1815.8334	20.01	.83	78034.390	2.5	83540.000	3.5
1815.8465	27.00	-4.66	49484.050	3.5	54989.620	3.5
1815.8663	18.01	-.29	196103.310	4.5	201608.820	3.5
1815.8927	28.01	-2.56	131093.300	4.5	136598.730	5.5
1815.9092	28.01	.29	128822.230	1.5	134327.610	2.5
1815.9223	9.00	-2.57	130489.930	.5	135995.270	.5
1815.9421	6.00	-3.86	83926.200	3.0	89431.480	2.0
1816.0246	27.00	-3.28	48753.720	1.5	54258.750	2.5
1816.0382	20.00	-3.37	42526.591	2.0	48031.580	1.0
1816.0510	18.01	-3.58	205104.320	4.5	210609.270	4.5
1816.1368	28.01	.55	128827.150	3.5	134331.840	4.5
1816.2160	24.00	-3.61	48824.500	4.0	54328.950	3.0
1816.2259	14.00	-3.05	57450.580	3.0	62955.000	2.0
1816.2654	6.00	-2.20	83877.310	1.0	89381.610	0.0
1816.2654	15.00	-2.15	69980.100	3.5	75484.400	2.5
1816.2819	18.01	-4.87	186470.280	1.5	191974.530	1.5
1816.3361	28.00	-1.80	43654.974	3.0	49159.060	2.0
1816.3377	10.00	-3.10	167846.689	2.0	173350.770	1.0
1816.3612	7.00	-2.37	104881.320	3.5	110385.330	2.5
1816.3612	7.00	-1.76	104881.320	3.5	110385.330	3.5
1816.3678	7.00	-4.97	110486.010	2.5	115990.000	2.5
1816.3849	26.00	-4.21	42532.729	3.0	48036.667	2.0
1816.4041	14.00	-2.15	57450.580	3.0	62954.460	3.0
1816.4635	13.01	-.71	143170.000	1.0	148673.700	1.0
1816.4635	13.01	-.40	143170.000	2.0	148673.700	1.0
1816.4635	13.01	-1.10	143170.000	0.0	148673.700	1.0
1816.5229	12.01	-1.27	108900.030	2.5	114403.550	2.5
1816.5229	12.01	.03	108900.030	2.5	114403.550	3.5
1816.5470	22.00	-2.25	39077.713	1.0	44581.160	2.0
1816.5725	18.01	-.23	205104.320	4.5	210607.690	4.5
1816.5758	12.01	-.13	108900.190	1.5	114403.550	2.5
1816.5791	11.00	-4.14	34586.960	2.5	40090.310	2.5
1816.5791	11.00	-2.84	34586.960	3.5	40090.310	2.5
1816.5791	11.00	-2.99	34586.960	2.5	40090.310	1.5
1816.5998	17.00	-4.86	94468.857	.5	99972.144	.5
1816.6186	18.01	-1.96	205104.320	4.5	210607.550	5.5
1816.6397	10.00	-3.52	167069.064	3.0	172572.230	3.0
1816.6440	10.00	-4.82	167069.077	2.0	172572.230	3.0
1816.6681	10.00	-4.10	167846.430	3.0	173349.510	3.0
1816.6727	10.00	-2.77	167846.444	4.0	173349.510	3.0
1816.6727	10.00	-4.85	167069.064	3.0	172572.130	2.0
1816.6770	10.00	-3.67	167069.077	2.0	172572.130	2.0
1816.6813	10.00	-2.91	167846.430	3.0	173349.470	2.0
1816.7342	6.00	-4.86	84016.250	4.0	89519.130	3.0
1816.7497	10.00	-4.18	167846.677	3.0	173349.510	3.0
1816.7530	10.00	-2.90	167846.677	3.0	173349.500	2.0
1816.7569	10.00	-4.23	167846.689	2.0	173349.500	2.0
1816.7668	10.00	-4.06	167846.689	2.0	173349.470	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1816.7804	28.01	1.02	131093.300	4.5	136596.040	5.5
1816.8626	26.00	-4.35	45726.104	5.0	51228.595	5.0
1816.9718	7.00	-.84	104996.240	1.5	110498.400	2.5
1817.0148	28.01	-3.02	130184.610	5.5	135686.640	6.5
1817.0449	8.00	-3.49	102968.261	1.0	108470.200	1.0
1817.0449	8.00	-4.33	102968.261	1.0	108470.200	2.0
1817.0449	8.00	-3.19	102968.261	2.0	108470.200	1.0
1817.0449	8.00	-3.49	102968.261	1.0	108470.200	0.0
1817.0449	8.00	-3.33	102968.261	2.0	108470.200	2.0
1817.0449	8.00	-4.33	102968.261	2.0	108470.200	3.0
1817.0449	8.00	-2.96	102968.261	3.0	108470.200	2.0
1817.0449	8.00	-3.32	102968.261	3.0	108470.200	3.0
1817.0449	8.00	-4.64	102968.261	3.0	108470.200	4.0
1817.0449	8.00	-2.76	102968.261	4.0	108470.200	3.0
1817.0449	8.00	-3.46	102968.261	4.0	108470.200	4.0
1817.0449	8.00	-2.59	102968.261	5.0	108470.200	4.0
1817.0759	8.00	-4.89	102968.355	3.0	108470.200	2.0
1817.1063	10.00	-3.20	167069.077	2.0	172570.830	1.0
1817.1238	26.00	-4.74	45833.240	4.0	51334.940	4.0
1817.1337	7.00	-4.51	110385.330	2.5	115887.000	1.5
1817.1403	28.01	-.21	128822.230	1.5	134323.880	1.5
1817.1403	28.01	-.91	128822.230	1.5	134323.880	2.5
1817.1436	7.01	-.13	221141.610	3.0	226643.250	4.0
1817.1535	28.01	-1.34	131103.180	2.5	136604.790	3.5
1817.1602	7.00	-1.30	104984.340	.5	110485.930	1.5
1817.2559	27.00	-4.42	45766.630	3.5	51267.930	4.5
1817.2659	6.00	-2.87	83848.830	3.0	89350.100	2.0
1817.4872	15.00	-2.08	69852.800	.5	75353.400	1.5
1817.5103	6.00	-1.70	83798.570	4.0	89299.100	3.0
1817.5202	15.00	-2.14	76021.600	1.5	81522.100	2.5
1817.5335	28.01	-1.14	128827.150	3.5	134327.610	2.5
1817.5566	28.01	-1.18	128827.150	3.5	134327.540	3.5
1817.5778	10.00	-3.01	167069.064	3.0	172569.390	2.0
1817.5821	10.00	-4.16	167069.077	2.0	172569.390	2.0
1817.6237	7.00	-1.42	107445.622	1.5	112945.809	2.5
1817.6458	10.01	-1.17	303237.910	1.5	308738.030	1.5
1817.6689	24.00	-3.24	44088.920	1.0	49588.970	1.0
1817.7615	22.00	-4.11	37359.130	2.0	42858.900	3.0
1817.7879	11.00	-1.81	35040.380	.5	40540.070	1.5
1817.8144	28.01	-1.40	115956.710	2.5	121456.320	1.5
1817.8276	28.01	.43	128837.110	5.5	134336.680	5.5
1817.8276	28.01	-.51	128837.110	5.5	134336.680	4.5
1817.9334	28.01	-1.66	131032.010	2.5	136531.260	1.5
1818.0722	28.01	1.15	130187.810	6.5	135686.640	7.5
1818.0722	28.01	.17	130187.810	6.5	135686.640	6.5
1818.0834	10.00	-4.92	167069.064	3.0	172567.860	4.0
1818.1449	7.01	-.90	221141.610	3.0	226640.220	3.0
1818.2012	28.01	.26	128818.410	6.5	134316.850	6.5
1818.2177	28.01	-1.32	128818.410	6.5	134316.800	7.5
1818.3136	28.01	1.20	128827.050	7.5	134325.150	8.5
1818.3136	28.01	-1.06	128827.050	7.5	134325.150	7.5
1818.3566	28.01	-.30	115827.120	3.5	121325.090	2.5
1818.3864	26.01	-4.93	54904.500	3.5	60402.380	2.5
1818.4459	18.01	-.87	190592.170	1.5	196089.870	2.5
1818.4624	6.00	-4.50	84013.250	3.0	89510.900	3.0
1818.4790	24.00	-4.20	49477.040	1.0	54974.640	2.0
1818.4790	24.00	-3.77	49477.040	2.0	54974.640	2.0
1818.5782	15.00	-4.18	75905.100	2.5	81402.400	2.5
1818.5802	18.00	-.71	116942.815	3.0	122440.109	2.0
1818.6047	11.00	-1.55	35042.850	1.5	40540.070	2.5
1818.6047	11.00	-2.51	35042.850	1.5	40540.070	1.5
1818.6113	25.00	-4.93	41403.930	2.5	46901.130	2.5
1818.6401	26.00	-4.65	49627.861	4.0	55124.974	3.0
1818.6808	23.00	-3.67	36983.630	1.5	42480.620	.5
1818.7569	28.01	-2.91	130480.550	3.5	135977.310	4.5
1818.7668	28.01	.10	128827.150	3.5	134323.880	2.5
1818.9091	28.01	-.40	128837.110	5.5	134333.410	5.5
1818.9091	28.01	-.60	128837.110	5.5	134333.410	6.5
1818.9422	28.01	.53	130197.230	1.5	135693.430	2.5
1818.9521	24.00	-3.65	44092.800	0.0	49588.970	1.0
1819.0743	18.00	-4.55	118407.494	1.0	123903.295	2.0
1819.2301	18.01	-.71	203918.150	1.5	209413.480	1.5
1819.2573	10.00	-4.27	167076.982	3.0	172572.230	3.0
1819.2603	10.00	-2.84	167076.991	4.0	172572.230	3.0
1819.2904	10.00	-2.97	167076.982	3.0	172572.130	2.0
1819.3063	13.01	-.34	139286.800	2.0	144781.900	3.0
1819.4288	28.01	-1.10	128837.110	5.5	134331.840	4.5
1819.4553	6.00	-4.76	84016.250	4.0	89510.900	3.0
1819.5712	18.01	.14	209337.870	4.5	214832.170	3.5
1819.6179	10.00	-3.90	166975.341	1.0	172469.500	2.0
1819.6838	18.01	-1.42	209338.210	3.5	214832.170	3.5
1819.7733	18.00	-2.75	119566.110	3.0	125059.800	2.0
1819.8130	28.01	1.08	130184.610	5.5	135678.180	6.5
1819.8296	22.00	-2.82	41481.130	5.0	46974.650	5.0
1819.8670	22.00	-2.65	33655.853	2.0	39149.260	2.0
1819.8926	6.01	-.60	178955.940	3.5	184449.270	3.5
1819.8926	6.01	.95	178955.940	3.5	184449.270	4.5
1819.8926	6.01	.83	178955.940	2.5	184449.270	3.5
1819.8958	25.02	-3.94	115774.000	3.5	121267.320	2.5
1819.9090	7.00	-.67	105008.520	2.5	110501.800	3.5
1819.9190	25.00	-4.26	52128.650	2.5	57621.900	1.5
1819.9266	9.00	-3.99	118427.823	1.5	123921.050	2.5
1819.9985	14.00	-1.31	56733.380	0.0	62226.390	1.0
1820.0283	27.00	-2.47	48443.760	2.5	53936.680	2.5
1820.0714	18.01	.15	202253.590	1.5	207746.380	2.5
1820.1510	6.00	-2.36	80834.610	3.0	86327.160	3.0
1820.2173	6.00	-3.50	83740.060	0.0	89232.410	1.0
1820.2636	25.00	-2.84	57621.900	1.5	63114.110	1.5
1820.2669	28.01	.69	130900.650	2.5	136392.850	3.5
1820.3597	22.00	-2.26	36132.210	4.0	41624.130	4.0
1820.4294	28.01	-1.33	99154.810	4.5	104646.520	3.5
1820.4625	7.00	-4.61	110498.390	3.5	115990.000	2.5
1820.5122	24.00	-4.38	24093.160	2.0	29584.620	2.0
1820.5819	19.00	-2.31	27450.690	.5	32941.940	1.5
1820.5958	17.00	-3.56	96731.172	3.5	102222.380	3.5
1820.5984	22.00	-2.55	34170.950	0.0	39662.150	1.0
1820.6313	10.00	-3.74	167076.982	3.0	172568.083	3.0
1820.6952	17.00	-2.63	96731.172	3.5	102222.080	4.5
1820.7082	10.00	-3.63	167076.991	4.0	172567.860	4.0
1820.7874	28.01	-2.28	113407.310	2.5	118897.940	2.5
1820.8206	16.01	-3.44	158826.870	2.5	164317.400	1.5
1820.8737	28.01	-.77	130187.810	6.5	135678.180	6.5
1820.9301	14.00	-2.86	58893.400	3.0	64383.600	4.0
1820.9593	17.00	-2.88	96313.330	1.5	101803.442	2.5
1820.9698	27.00	-3.00	46671.940	2.5	52162.020	3.5
1820.9798	28.01	-1.22	130205.620	5.5	135695.670	4.5
1821.0328	10.00	-1.46	158795.992	1.0	164285.882	0.0
1821.0361	7.00	-1.20	105008.520	2.5	110498.400	2.5
1821.0395	7.00	.19	105008.520	2.5	110498.390	3.5
1821.0627	28.01	-1.75	128827.050	7.5	134316.850	6.5
1821.0627	18.01	-2.14	196119.020	3.5	201608.820	3.5
1821.0726	7.00	-.10	104996.240	1.5	110486.010	2.5
1821.0793	28.01	.31	128827.050	7.5	134316.800	7.5
1821.0992	7.00	-1.24	104996.240	1.5	110485.930	1.5
1821.1556	19.00	-2.61	27450.690	.5	32940.210	.5
1821.1589	28.01	-1.27	131115.280	4.5	136604.790	3.5
1821.1855	29.01	.10	133727.870	2.0	139217.300	2.0
1821.2087	7.00	-.80	104859.700	1.5	110349.060	2.5
1821.2120	24.00	-4.71	21810.840	1.0	27300.190	1.0
1821.2203	28.00	-2.86	43464.019	1.0	48953.344	1.0
1821.2618	7.00	-4.99	110501.800	3.5	115991.000	2.5
1821.2817	6.00	-3.99	84036.400	2.0	89525.540	1.0
1821.4045	28.01	.36	130206.900	4.5	135695.670	4.5
1821.4376	26.00	-3.97	54683.390	4.0	60172.060	4.0
1821.5272	13.01	-1.42	142601.600	3.0	148090.000	2.0
1821.5272	13.01	-2.32	142601.600	3.0	148090.000	3.0
1821.6600	28.01	-1.84	116312.340	1.5	121800.340	1.5
1821.6766	28.01	-.76	130205.620	5.5	135693.570	4.5
1821.6766	28.01	-.93	130205.620	5.5	135693.570	5.5
1821.7297	27.00	-2.72	45105.590	3.5	50593.380	4.5
1821.7862	21.00	-1.30	20237.100	4.5	25724.720	3.5
1821.8127	8.01	-3.98	240328.750	.5	245816.290	1.5
1821.8233	17.00	-4.98	96731.172	3.5	102218.680	2.5
1821.9007	26.00	-4.81	46727.055	2.0	52214.330	1.0
1821.9090	28.01	-4.51	107737.810	1.5	113225.060	.5
1821.9289	24.00	-4.83	44050.870	4.0	49538.060	5.0
1821.9621	25.02	-4.65	115780.230	2.5	121267.320	2.5
1821.9953	7.00	-5.00	110486.010	2.5	115973.000	1.5
1822.0518	27.00	-4.93	48217.320	3.5	53704.140	2.5
1822.0585	18.01	-4.88	206245.570	3.5	211732.370	4.5
1822.0651	28.01	-.38	130208.890	3.5	135695.670	4.5
1822.1016	28.01	-1.44	130206.900	4.5	135693.570	4.5
1822.1016	28.01	.93	130206.900	4.5	135693.570	5.5
1822.1099	10.00	-.05	161590.346	4.0	167076.991	4.0
1822.1128	10.00	-1.59	161590.346	4.0	167076.982	3.0
1822.1148	6.00	.75	78529.620	3.0	84016.250	4.0
1822.1481	28.01	-.70	130206.900	4.5	135693.430	3.5
1822.2477	14.00	-1.18	57450.580	3.0	62936.810	4.0
1822.3231	18.00	-1.32	118651.447	1.0	124137.450	2.0
1822.3241	6.00	-4.65	84036.400	2.0	89522.400	2.0
1822.5965	14.00	-1.46	57450.580	3.0	62935.760	3.0
1822.5999	27.00	-4.63	49197.740	4.5	54682.910	4.5
1822.6198	28.01	-3.14	130470.900	4.5	135956.010	5.5
1822.6431	26.00	-4.27	54879.720	2.0	60364.760	3.0
1822.6497	6.00	-3.10	83747.390	2.0	89232.410	1.0
1822.6763	7.00	-4.44	110402.060	4.5	115887.000	3.5
1822.6992	10.00	-1.64	161592.120	3.0	167076.991	4.0
1822.7022	10.00	-.16	161592.120	3.0	167076.982	3.0
1822.7195	27.00	-1.97	48217.320	3.5	53702.130	3.5
1822.7228	21.00	-2.83	20239.920	3.5	25724.720	3.5
1822.7627	28.01	.72	130208.890	3.5	135693.570	4.5
1822.7793	29.01	-.72	135759.970	2.0	141244.600	1.0
1822.8092	28.01	-1.99	130208.890	3.5	135693.430	2.5
1822.8092	28.01	-.79	130208.890	3.5	135693.430	3.5
1822.8292	7.00	-4.75	110404.520	2.5	115889.000	1.5
1822.8322	14.00	-3.47	57328.789	1.0	62813.260	1.0
1822.8491	23.00	-3.19	31541.180	3.5	37025.600	3.5
1822.8614	26.00	-4.51	52213.207	3.0	57697.590	4.0
1822.8856	19.00	-1.80	24701.430	.5	30185.740	1.5
1822.8969	8.00	-1.08	99680.968	1.0	105165.244	1.0
1822.9122	7.00	-.99	105017.570	3.5	110501.800	3.5
1822.9156	18.01	-1.05	190592.170	1.5	196076.390	1.5
1822.9239	8.00	-.86	99681.049	2.0	105165.244	1.0
1822.9621	7.00	-.30	105017.570	3.5	110501.650	4.5
1823.0103	8.00	-1.56	99681.309	0.0	105165.244	1.0
1823.0369	7.00	-.84	107253.106	2.5	112736.961	1.5
1823.0619	6.00	-1.98	78529.620	3.0	84013.400	2.0
1823.1117	23.00	-2.64	32456.450	1.5	37940.080	.5
1823.1117	29.01	.15	139331.300	3.0	144814.930	3.0
1823.1117	6.00	-1.15	78529.620	3.0	84013.250	3.0
1823.1493	18.00	-1.67	111667.870	0.0	117151.387	1.0
1823.1716	28.01	.98	131115.280	4.5	136598.730	5.5
1823.2500	28.00	-1.48	50689.490	2.0	56172.704	3.0
1823.2514	23.02	-4.44	155682.600	3.5	161165.810	2.5
1823.3112	6.00	-4.69	80834.610	3.0	86317.640	2.0
1823.3677	18.01	-3.77	199446.540	.5	204929.400	.5
1823.3977	28.01	.13	128853.910	4.5	134336.680	5.5
1823.3977	28.01	-.04	128853.910	4.5	134336.680	4.5
1823.4775	7.00	-4.62	110404.470	1.5	115887.000	.5
1823.7503	24.00	-1.66	35501.260	3.0	40982.970	2.0
1823.8425	7.00	-2.23	107445.622	1.5	112927.055	1.5
1823.9599	28.01	-2.12	128855.600	6.5	134336.680	5.5
1823.9632	27.00	-4.79	41225.760	4.5	46706.830	3.5
1823.9799	28.01	1.03	130205.620	5.5	135686.640	6.5
1823.9912	22.00	-4.58	36000.144	4.0	41481.130	5.0
1824.0431	7.00	-2.50	105017.570	3.5	110498.400	2.5
1824.0464	7.00	-.16	105017.570	3.5	110498.390	3.5
1824.0664	28.01	-2.13	131115.280	4.5	136596.040	5.5
1824.1230	28.01	-.44	128853.870	2.5	134334.460	1.5
1824.2628	28.01	-1.36	130215.500	4.5	135695.670	4.5
1824.2728	17.00	-1.95	92194.190	1.5	97674.330	2.5
1824.2795	18.01	-.51	206245.570	3.5	211725.690	3.5
1824.2961	18.00	-.99	116999.389	2.0	122479.459	1.0
1824.3094	18.01	-1.94	206245.570	3.5	211725.600	2.5
1824.3193	6.00	-3.00	83752.410	1.0	89232.410	1.0
1824.3310	8.00	.47	97488.390	1.0	102968.355	2.0
1824.3543	8.00	-.26	97488.460	2.0	102968.355	2.0
1824.3543	8.00	.63	97488.460	2.0	102968.355	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1824.3623	8.00	-1.78	97488.390	1.0	102968.261	1.0
1824.3623	8.00	-2.45	97488.390	1.0	102968.261	2.0
1824.3693	23.01	-3.44	32040.760	2.0	37520.610	3.0
1824.3760	28.01	.18	131124.960	3.5	136604.790	3.5
1824.3843	8.00	-1.80	97488.550	3.0	102968.355	2.0
1824.3843	8.00	-.27	97488.550	3.0	102968.355	3.0
1824.3856	8.00	-2.13	97488.460	2.0	102968.261	1.0
1824.3856	8.00	-1.32	97488.460	2.0	102968.261	2.0
1824.3856	8.00	-1.40	97488.460	2.0	102968.261	3.0
1824.4059	28.01	.99	128837.110	5.5	134316.850	6.5
1824.4156	8.00	-1.87	97488.550	3.0	102968.261	2.0
1824.4156	8.00	-.97	97488.550	3.0	102968.261	3.0
1824.4156	8.00	-.67	97488.550	3.0	102968.261	4.0
1824.4725	7.01	-4.45	221163.710	3.0	226643.250	4.0
1824.4725	7.01	-2.94	221163.710	4.0	226643.250	4.0
1824.4758	28.01	-3.12	130480.550	3.5	135960.080	4.5
1824.4858	28.01	.67	128853.910	4.5	134333.410	5.5
1824.7462	10.00	-1.34	161590.346	4.0	167069.064	3.0
1824.8955	27.00	-3.24	46562.870	1.5	52041.140	.5
1824.9221	18.01	.18	205180.360	.5	210658.550	1.5
1824.9621	28.01	.40	130215.500	4.5	135693.570	4.5
1824.9621	28.01	-.19	130215.500	4.5	135693.570	5.5
1824.9841	26.00	-3.61	45220.662	3.0	50698.666	2.0
1825.0087	28.01	-2.35	130215.500	4.5	135693.430	3.5
1825.0087	28.01	.52	128853.910	4.5	134331.840	4.5
1825.0318	14.00	-2.25	57328.789	1.0	62806.650	0.0
1825.0487	28.01	-.43	128855.600	6.5	134333.410	5.5
1825.0487	28.01	.51	128855.600	6.5	134333.410	6.5
1825.0813	14.00	-3.14	58774.368	3.0	64252.080	2.0
1825.1553	7.00	-.09	105008.520	2.5	110486.010	2.5
1825.1820	7.00	-1.49	105008.520	2.5	110485.930	1.5
1825.2353	27.00	-3.76	48217.320	3.5	53694.570	3.5
1825.3330	10.00	-1.46	161592.120	3.0	167069.077	2.0
1825.3373	10.00	-2.89	161592.120	3.0	167069.064	3.0
1825.4020	18.01	-.50	196305.040	3.5	201781.790	2.5
1825.4819	7.01	-3.05	221163.710	3.0	226640.220	3.0
1825.4819	7.01	-4.82	221163.710	4.0	226640.220	3.0
1825.4986	9.00	-2.36	130489.930	.5	135966.390	1.5
1825.5019	28.01	.01	131122.280	5.5	136598.730	5.5
1825.5493	18.00	-4.01	118459.662	1.0	123935.970	1.0
1825.6853	28.01	-2.87	101144.630	3.5	106620.530	3.5
1825.7053	25.00	-3.25	51014.950	3.5	56490.790	2.5
1825.7587	7.01	-3.57	221167.570	5.0	226643.250	4.0
1825.8453	7.00	-.94	104984.340	.5	110459.760	.5
1825.8453	7.00	-.57	104984.340	.5	110459.760	1.5
1825.8554	27.00	-3.45	28470.510	1.5	33945.900	2.5
1826.0454	24.00	-2.92	48488.230	0.0	53963.050	1.0
1826.0501	18.00	-1.56	118407.494	1.0	123882.300	1.0
1826.0855	19.02	-2.28	245382.300	.5	250857.000	.5
1826.1089	7.01	-0.00	221246.170	1.0	226720.800	2.0
1826.2039	18.00	-1.87	118906.665	2.0	124381.010	2.0
1826.2202	22.00	-4.99	20062.980	1.0	25537.276	1.0
1826.2556	28.01	.80	128862.490	4.5	134336.680	5.5
1826.2556	28.01	.36	128862.490	4.5	134336.680	4.5
1826.2956	28.01	-4.43	131115.280	4.5	136589.350	3.5
1826.2990	24.00	-2.42	48558.570	2.0	54032.630	2.0
1826.3090	6.00	-4.93	84036.400	2.0	89510.430	2.0
1826.3991	28.01	-.73	131122.280	5.5	136596.040	5.5
1826.3991	28.01	1.09	131122.280	5.5	136596.040	6.5
1826.4057	28.01	.39	128853.870	2.5	134327.610	2.5
1826.4291	28.01	.54	128853.870	2.5	134327.540	3.5
1826.4424	28.01	-1.03	128853.910	4.5	134327.540	3.5
1826.4858	28.01	-3.40	130470.900	4.5	135944.400	3.5
1826.5125	28.00	-4.92	50789.500	4.0	56262.920	3.0
1826.5893	22.00	-4.48	41714.350	2.0	47187.540	2.0
1826.6060	27.00	-2.39	45105.590	3.5	50578.730	3.5
1826.6577	28.00	-2.35	45281.152	3.0	50754.137	2.0
1826.7061	7.01	-3.87	221167.380	4.0	226640.220	3.0
1826.7128	10.01	-1.77	301948.000	1.5	307420.820	2.5
1826.7228	6.00	-1.72	83877.310	1.0	89350.100	2.0
1826.7995	28.01	-1.84	130205.620	5.5	135678.180	6.5
1826.8596	28.01	-2.56	95893.760	1.5	101366.140	2.5
1826.9264	28.01	-2.59	112906.930	1.5	118379.110	2.5
1827.0232	23.00	-9.56	11100.650	4.5	16572.540	3.5
1827.0967	28.01	-1.14	100389.520	2.5	105861.190	2.5
1827.1167	27.00	-3.59	48317.170	3.5	53788.780	4.5
1827.1999	14.00	-1.88	49399.670	1.0	54871.031	1.0
1827.2002	24.00	-4.68	31106.370	4.0	36577.730	4.0
1827.2236	24.00	-2.50	48661.590	3.0	54132.880	3.0
1827.2503	28.01	.72	131133.580	2.5	136604.790	3.5
1827.3305	25.00	-4.87	52015.000	1.5	57485.970	2.5
1827.3305	25.00	-3.67	52015.000	3.5	57485.970	2.5
1827.3472	28.01	.15	128862.490	4.5	134333.410	5.5
1827.3872	13.01	-.18	144638.900	2.0	150109.700	3.0
1827.3872	13.01	-1.08	144638.900	3.0	150109.700	3.0
1827.5008	18.01	-1.87	206255.230	2.5	211725.690	3.5
1827.5175	24.00	-2.80	35572.940	2.0	41043.350	3.0
1827.5242	27.00	-3.81	46562.870	1.5	52033.260	1.5
1827.5309	18.01	-.64	206255.230	2.5	211725.600	2.5
1827.6445	24.00	-3.66	35501.260	3.0	40971.290	2.0
1827.6512	28.01	-.69	128853.870	2.5	134323.880	1.5
1827.6512	28.01	-.68	128853.870	2.5	134323.880	2.5
1827.6578	23.01	-3.88	44098.460	3.0	49568.450	3.0
1827.6675	10.00	.90	161590.346	4.0	167060.307	5.0
1827.6695	10.00	-.75	161590.346	4.0	167060.301	4.0
1827.6712	7.00	-4.65	110521.050	1.5	115991.000	2.5
1827.7213	28.01	.77	130225.870	3.5	135695.670	4.5
1827.7280	28.01	-2.61	113407.310	2.5	118877.090	1.5
1827.7497	18.00	-2.85	118906.665	2.0	124376.380	1.0
1827.7614	28.01	.70	128867.000	3.5	134336.680	4.5
1827.7778	26.00	-4.45	47812.104	4.0	53281.735	5.0
1827.8049	28.01	-.90	128855.600	6.5	134325.150	7.5
1827.8162	26.00	-3.59	45333.834	2.0	50803.350	2.0
1827.8717	28.01	-.08	128862.490	4.5	134331.840	4.5
1827.9118	22.00	-2.88	41368.860	4.0	46838.090	4.0
1827.9452	22.00	-3.34	33680.130	3.0	39149.260	2.0
1827.9753	26.00	-4.12	48361.920	4.0	53830.960	3.0
1827.9987	23.00	-2.15	34128.040	3.5	39597.010	4.5
1827.9987	10.01	-1.53	302425.870	1.5	307894.840	2.5
1828.1759	7.00	-1.21	105017.570	3.5	110486.010	2.5
1828.2267	22.00	-3.51	14105.680	3.0	19573.968	4.0
1828.2625	10.00	.80	161592.120	3.0	167060.301	4.0
1828.3562	14.00	-.62	57468.239	2.0	62936.140	3.0
1828.3831	7.00	-3.37	104881.320	3.5	110349.140	3.5
1828.3999	18.01	-1.99	203730.860	1.5	209198.630	2.5
1828.4099	7.00	-3.32	104881.320	3.5	110349.060	2.5
1828.4233	28.01	-.09	130225.870	3.5	135693.570	4.5
1828.4504	14.00	-.88	49060.601	1.0	54528.220	2.0
1828.4701	28.01	-.82	130225.870	3.5	135693.430	2.5
1828.4701	28.01	.32	130225.870	3.5	135693.430	3.5
1828.4935	18.01	-1.61	202544.320	2.5	208011.810	1.5
1828.6554	26.00	-3.69	46137.140	3.0	51604.146	3.0
1828.6708	10.01	-1.15	302307.750	2.5	307774.710	1.5
1828.7076	6.00	-3.46	82251.710	0.0	87718.560	1.0
1828.7243	28.01	-3.80	113407.310	2.5	118874.110	3.5
1828.7277	28.01	-.96	128869.890	5.5	134336.680	5.5
1828.7277	28.01	-3.54	128869.890	5.5	134336.680	4.5
1828.7745	26.00	-4.83	46600.800	1.0	52067.450	2.0
1828.8983	18.01	-2.08	196315.510	2.5	201781.790	2.5
1828.9197	26.00	-4.91	45726.104	5.0	51192.320	4.0
1828.9856	17.00	-3.38	95706.534	1.5	101172.553	1.5
1829.0221	28.01	.22	130227.520	2.5	135693.430	2.5
1829.0221	28.01	.64	130227.520	2.5	135693.430	3.5
1829.1338	18.00	-1.27	118407.494	1.0	123873.070	0.0
1829.1358	19.00	-2.53	24720.170	1.5	30185.740	1.5
1829.2530	14.00	-2.66	58786.860	3.0	64252.080	2.0
1829.3032	19.00	-1.58	24720.170	1.5	30185.240	2.5
1829.3099	28.01	-.46	128862.490	4.5	134327.540	3.5
1829.3240	7.00	-2.18	107445.622	1.5	112910.630	2.5
1829.3314	20.00	-1.97	42919.053	2.0	48384.039	3.0
1829.3601	15.00	-4.06	76425.200	2.5	81890.100	2.5
1829.3802	28.01	-.40	128867.000	3.5	134331.840	4.5
1829.4539	18.01	-3.82	205194.040	1.5	210658.660	2.5
1829.4906	18.01	-.53	205194.040	1.5	210658.550	1.5
1829.5744	24.00	.02	42238.040	2.0	47702.300	3.0
1829.6112	9.00	-2.26	130221.120	1.5	135685.270	1.5
1829.7117	28.01	-4.29	130480.550	3.5	135944.400	3.5
1829.7505	26.00	-2.79	47929.981	4.0	53393.715	4.0
1829.8189	14.02	.12	249093.500	1.0	254557.030	2.0
1829.8222	28.01	.56	128869.890	5.5	134333.410	5.5
1829.8222	28.01	.94	128869.890	5.5	134333.410	6.5
1829.8222	7.00	-1.07	104996.240	1.5	110459.760	.5
1829.8222	7.00	-.23	104996.240	1.5	110459.760	1.5
1830.0265	24.00	.25	42238.040	2.0	47700.950	2.0
1830.0567	24.00	-1.37	42256.260	3.0	47719.080	4.0
1830.0801	27.00	-4.07	47393.930	2.5	52856.680	3.5
1830.1173	28.00	-3.13	44314.980	4.0	49777.619	3.0
1830.1739	28.01	-.26	99040.750	1.5	104503.220	2.5
1830.2272	17.00	-.54	96482.889	2.5	101945.200	1.5
1830.2644	9.00	-2.43	130141.650	1.5	135603.850	2.5
1830.2711	6.00	-4.58	83986.220	3.0	89448.400	3.0
1830.2845	24.00	.20	42238.040	2.0	47700.180	1.0
1830.3482	28.01	-.23	128869.890	5.5	134331.840	4.5
1830.3482	6.00	-4.99	83986.450	4.0	89448.400	3.0
1830.3931	10.00	-.58	161607.261	2.0	167069.077	2.0
1830.3974	10.00	.57	161607.261	2.0	167069.064	3.0
1830.5828	28.01	-1.13	128855.600	6.5	134316.850	6.5
1830.5995	28.01	1.08	128855.600	6.5	134316.800	7.5
1830.6062	6.00	-3.93	83986.220	3.0	89447.400	2.0
1830.6592	26.00	-4.95	45833.240	4.0	51294.262	3.0
1830.6598	6.00	-3.53	83838.080	2.0	89299.100	3.0
1830.7638	24.00	-.64	42258.370	4.0	47719.080	4.0
1830.7940	23.00	-1.94	15571.900	2.5	21032.520	3.5
1830.7973	28.01	-.31	128867.000	3.5	134327.610	2.5
1830.8208	28.01	.48	128867.000	3.5	134327.540	3.5
1830.8845	23.00	-3.15	20789.130	2.5	26249.480	1.5
1831.2098	25.00	-2.34	57621.900	1.5	63081.280	2.5
1831.3070	7.01	-3.14	196711.540	2.0	202170.630	1.0
1831.3305	18.01	.08	203918.150	1.5	209377.170	2.5
1831.3366	17.00	-.79	96486.198	1.5	101945.200	.5
1831.3366	17.00	-1.54	96486.198	1.5	101945.200	1.5
1831.3372	17.01	-1.21	141010.000	2.0	146469.000	3.0
1831.4043	15.00	-1.75	69894.600	1.5	75353.400	1.5
1831.4513	10.01	-2.38	303518.210	1.5	308976.870	.5
1831.4644	14.00	-4.43	58311.659	0.0	63770.280	1.0
1831.5460	7.00	-2.34	107445.622	1.5	112904.000	.5
1831.6326	10.01	-.50	303279.910	2.5	308738.030	1.5
1831.6594	23.02	-4.56	156130.000	4.5	161588.040	3.5
1831.6661	24.00	-.12	42261.060	5.0	47719.080	4.0
1831.6939	10.00	-4.04	167011.563	2.0	172469.500	2.0
1831.6939	10.00	-2.89	167011.563	2.0	172469.500	3.0
1831.7399	15.00	.03	72386.100	2.5	77843.900	2.5
1831.8201	14.00	-3.41	57468.239	2.0	62925.800	1.0
1831.9413	15.00	-3.79	72386.100	2.5	77843.300	1.5
1832.0195	26.00	-2.44	46313.610	2.0	51770.577	3.0
1832.0487	28.01	-1.34	128867.000	3.5	134323.880	2.5
1832.0655	6.00	.38	78529.620	3.0	83986.450	4.0
1832.1427	6.00	-.76	78529.620	3.0	83986.220	3.0
1832.1696	14.00	-3.21	58786.860	3.0	64243.380	2.0
1832.1998	27.00	-2.43	39649.160	3.5	45105.590	3.5
1832.2072	14.00	-3.54	59191.072	2.0	64647.480	3.0
1832.2368	14.00	-4.30	59190.460	1.0	64646.780	2.0
1832.4416	25.00	-4.44	57305.620	3.5	62761.330	2.5
1832.4423	14.00	-3.54	59191.072	2.0	64646.780	2.0
1832.4651	7.00	-.70	105017.570	3.5	110473.210	4.5
1832.5155	24.00	-2.56	48507.560	1.0	53963.050	1.0
1832.5861	28.01	-4.26	53037.930	2.5	58493.210	2.5
1832.6170	26.00	-2.64	47606.092	5.0	53061.280	5.0
1832.6801	27.00	-3.30	43263.570	1.5	48718.570	2.5
1832.7070	24.00	-3.61	49519.720	3.0	54974.640	2.0
1832.7440	28.01	-1.33	115870.280	2.5	121325.090	2.5
1832.9153	17.01	-2.62	144344.000	2.0	149798.300	2.0
1832.9355	23.00	-4.07	32788.220	4.5	38242.460	3.5
1832.9523	28.01	-3.92	127991.560	3.5	133445.750	4.5
1832.9926	24.00	-.94	42254.520	2.0	47708.590	3.0
1833.0632	27.00	-3.48	48828.870	2.5	54282.730	2.5
1833.0834	29.01	-3.89	135135.600	1.0	140589.400	0.0
1833.2313	14.02	.29	249103.900	2.0	254557.260	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1833.3086	14.02	-.62	249103.900	2.0	254557.030	2.0
1833.3422	22.00	-2.72	36132.210	4.0	41585.240	3.0
1833.3792	22.00	-4.20	41585.240	3.0	47038.160	3.0
1833.4058	14.00	-.83	57468.239	2.0	62921.080	2.0
1833.4599	29.01	-3.06	131312.700	3.0	136765.380	4.0
1833.5406	18.01	-3.27	199525.150	1.5	204977.590	2.5
1833.5776	24.00	-.52	42256.260	3.0	47708.590	3.0
1833.5843	24.00	-4.22	21847.880	2.0	27300.190	1.0
1833.6381	16.01	-3.67	158666.450	1.5	164118.600	.5
1833.7054	7.00	-4.93	110521.050	1.5	115973.000	1.5
1833.7727	18.01	-.78	183985.940	1.5	189437.690	.5
1833.7895	17.00	-3.40	94314.206	1.5	99765.906	2.5
1833.8914	22.00	-4.69	33655.853	2.0	39107.250	1.0
1833.9442	7.00	-.89	105008.520	2.5	110459.760	1.5
1834.0250	15.00	-.04	72618.000	.5	78069.000	1.5
1834.0596	14.00	-2.47	56690.903	2.0	62141.800	1.0
1834.0920	12.00	-3.81	54676.438	3.0	60127.239	2.0
1834.1764	24.00	.47	42254.110	3.0	47704.660	4.0
1834.1835	12.00	-2.46	54676.710	3.0	60127.239	2.0
1834.1835	12.00	-3.99	54676.710	2.0	60127.239	2.0
1834.2639	27.00	-3.50	50105.050	1.5	55555.340	2.5
1834.2706	6.00	-2.55	83848.830	3.0	89299.100	3.0
1834.2875	24.00	-.41	42258.370	4.0	47708.590	3.0
1834.3396	18.00	-3.24	118906.665	2.0	124356.730	2.0
1834.6914	26.00	-3.71	46600.800	1.0	52049.820	2.0
1834.7493	7.00	-4.05	110715.152	3.5	116164.000	3.5
1834.7901	18.00	-.91	113020.390	3.0	118469.117	2.0
1834.8530	28.01	-1.59	100389.520	2.5	105838.060	3.5
1834.9305	22.00	-3.68	34078.580	3.0	39526.890	2.0
1834.9470	7.00	-3.57	110710.739	2.5	116159.000	3.5
1834.9709	24.00	.36	42254.110	3.0	47702.300	3.0
1835.0282	23.00	-2.19	31541.180	3.5	36989.200	2.5
1835.0854	24.00	-4.37	49370.700	3.0	54818.550	2.0
1835.1046	17.00	-2.63	95597.593	.5	101045.386	1.5
1835.3024	26.00	-3.65	47834.529	5.0	53281.735	5.0
1835.3853	28.01	-.26	128869.890	5.5	134316.850	6.5
1835.4257	24.00	-.06	42254.110	3.0	47700.950	2.0
1835.6886	23.00	-2.08	32660.260	2.5	38106.320	2.5
1835.7425	28.01	-4.12	116824.150	2.5	122270.050	3.5
1835.7739	26.00	-3.44	48122.913	3.0	53568.720	2.0
1835.8470	18.00	-2.03	119212.930	3.0	124658.520	2.0
1835.8477	12.00	-2.05	53134.642	2.0	58580.230	1.0
1835.9124	10.00	-.05	161607.261	2.0	167052.657	2.0
1835.9165	10.00	-1.01	161607.261	2.0	167052.645	1.0
1835.9178	28.00	-1.38	49327.560	3.0	54772.940	3.0
1835.9583	6.00	-4.68	83986.220	3.0	89431.480	2.0
1835.9954	7.00	-4.70	110544.850	2.5	115990.000	2.5
1836.0291	22.00	-3.12	42018.010	5.0	47463.060	4.0
1836.0561	18.00	-2.70	114805.180	2.0	120250.150	3.0
1836.2213	28.01	-3.77	114836.630	3.5	120281.110	4.5
1836.2955	19.00	-2.36	28127.850	2.5	33572.110	1.5
1836.3124	29.01	-.43	116080.460	3.0	121524.670	3.0
1836.3124	19.00	-2.20	28127.850	3.5	33572.060	2.5
1836.3124	19.00	-3.50	28127.850	2.5	33572.060	2.5
1836.3394	29.01	.55	135759.970	2.0	141204.100	3.0
1836.3687	20.00	-1.79	42743.002	1.0	48187.045	2.0
1836.3765	24.00	-.69	42253.420	1.0	47697.440	2.0
1836.4345	7.00	-5.00	110715.152	3.5	116159.000	3.5
1836.5070	18.00	-3.15	118459.662	1.0	123903.295	2.0
1836.5755	10.01	-2.12	276276.850	1.5	281720.280	1.5
1836.5856	29.01	-2.49	140984.200	1.0	146427.600	1.0
1836.6261	28.01	-4.83	131834.940	2.5	137278.220	1.5
1836.7462	26.00	-4.66	48304.623	2.0	53747.547	3.0
1836.7476	24.00	-.64	42254.520	2.0	47697.440	2.0
1836.8083	28.01	-3.10	115785.060	1.5	121227.800	2.5
1836.8853	10.00	-3.42	167026.988	1.0	172469.500	2.0
1836.8994	9.02	.32	453152.390	2.5	458594.860	2.5
1836.9315	18.00	-2.86	118906.665	2.0	124349.040	3.0
1836.9369	20.00	-1.62	42744.716	2.0	48187.075	3.0
1836.9470	20.00	-2.52	42744.716	2.0	48187.045	2.0
1837.1121	11.00	-2.65	35040.380	.5	40482.220	.5
1837.1432	10.00	-1.74	164285.882	0.0	169727.630	1.0
1837.2100	14.00	-1.99	56700.250	1.0	62141.800	1.0
1837.2205	28.00	-3.15	44336.100	4.0	49777.619	3.0
1837.2438	18.02	-3.73	209127.040	1.0	214568.490	0.0
1837.2569	14.00	-4.50	59109.959	3.0	64551.370	4.0
1837.2573	29.01	-4.23	131312.700	3.0	136754.110	2.0
1837.2640	28.01	-4.92	115739.150	4.5	121180.540	4.5
1837.2708	6.00	-2.64	83791.040	2.0	89232.410	1.0
1837.3350	24.00	-.86	42256.260	3.0	47697.440	2.0
1837.4214	26.00	-4.56	46313.610	2.0	51754.534	1.0
1837.4376	12.00	-1.45	53134.642	2.0	58575.518	2.0
1837.4376	12.00	-.33	53134.642	2.0	58575.518	3.0
1837.4481	12.00	-1.89	53134.642	2.0	58575.487	3.0
1837.4903	18.00	-1.46	116999.389	2.0	122440.109	2.0
1837.5585	26.00	-3.70	49242.872	3.0	54683.390	4.0
1837.5703	17.00	-3.03	95612.357	1.5	101052.840	2.5
1837.6051	25.00	-4.85	51787.920	.5	57228.300	.5
1837.7538	29.01	-1.00	115639.020	2.0	121078.960	3.0
1837.7656	12.00	-1.63	54250.086	1.0	59689.991	2.0
1837.7994	8.00	.78	97488.550	3.0	102928.355	4.0
1837.8244	20.00	-1.46	42747.387	3.0	48187.118	4.0
1837.8389	20.00	-2.52	42747.387	3.0	48187.075	3.0
1837.8491	20.00	-4.06	42747.387	3.0	48187.045	2.0
1837.8653	10.01	-.06	301801.090	3.5	307240.700	3.5
1837.9024	22.00	.14	39526.890	2.0	44966.390	1.0
1837.9463	11.00	-2.35	35042.850	1.5	40482.220	.5
1838.0244	26.00	-4.07	46600.800	1.0	52039.939	1.0
1838.0545	8.01	-3.98	240328.750	.5	245767.800	.5
1838.1623	14.00	-2.10	58311.659	0.0	63750.390	1.0
1838.1951	22.00	-4.92	11776.806	4.0	17215.440	5.0
1838.2133	24.00	-4.73	41086.260	3.0	46524.840	2.0
1838.2678	17.00	-.35	85735.091	1.5	91173.510	1.5
1838.3972	10.00	-.49	162408.653	2.0	167846.689	2.0
1838.4012	10.00	-2.56	162408.653	2.0	167846.677	3.0
1838.4848	10.00	.66	162408.653	2.0	167846.430	3.0
1838.6578	12.00	-2.11	54252.726	2.0	59689.991	2.0
1838.7813	10.01	-4.59	312765.490	3.5	318202.390	2.5
1838.8510	12.00	-2.14	54706.536	1.0	60143.230	0.0
1838.9116	10.00	-1.81	162410.174	3.0	167846.689	2.0
1838.9156	10.00	-.60	162410.174	3.0	167846.677	3.0
1838.9166	14.02	.46	249121.140	3.0	254557.640	4.0
1838.9200	23.00	-3.00	20812.990	1.5	26249.480	1.5
1838.9504	25.01	-3.56	72648.800	4.0	78085.200	5.0
1838.9945	10.00	.80	162410.174	3.0	167846.444	4.0
1838.9992	10.00	-.53	162410.174	3.0	167846.430	3.0
1839.0451	14.02	-.60	249121.140	3.0	254557.260	3.0
1839.0823	18.01	.43	205194.040	1.5	210630.050	2.5
1839.0827	22.00	-3.32	34204.971	4.0	39640.980	3.0
1839.1061	27.00	-4.52	49847.080	2.5	55283.020	2.5
1839.1230	14.02	-2.15	249121.140	3.0	254557.030	2.0
1839.2529	22.00	-5.61	11639.804	3.0	17075.310	4.0
1839.2539	26.00	-2.27	39625.784	4.0	45061.287	3.0
1839.4005	29.01	-2.15	144814.930	3.0	150250.000	2.0
1839.5595	24.00	.76	42275.200	4.0	47709.800	5.0
1839.6442	22.01	-4.78	65458.650	3.5	70893.000	3.5
1839.6611	15.00	-2.20	75689.200	1.5	81123.500	2.5
1839.6777	22.00	-4.05	20209.444	2.0	25643.695	3.0
1839.7024	18.00	-3.70	118469.117	2.0	123903.295	2.0
1839.7119	29.01	.27	133594.050	3.0	139028.200	2.0
1839.7186	26.01	-4.16	44753.820	3.5	50187.950	3.5
1839.8351	28.00	.15	49327.560	3.0	54761.346	4.0
1839.8676	24.00	-3.58	43124.880	2.0	48558.570	2.0
1840.0915	17.00	-3.39	95612.357	1.5	101045.386	1.5
1840.1182	27.00	-4.14	45766.630	3.5	51199.580	3.5
1840.1554	10.01	-4.08	312763.910	4.5	318196.750	5.5
1840.2842	10.00	.36	161636.617	1.0	167069.077	2.0
1840.3621	7.01	-.09	221246.170	1.0	226678.400	2.0
1840.3790	28.01	-4.58	114836.630	3.5	120268.810	3.5
1840.3892	6.00	-3.66	84016.250	4.0	89448.400	3.0
1840.7599	28.00	-2.16	43654.974	3.0	49086.030	4.0
1840.8664	22.00	-3.85	20062.980	1.0	25493.722	2.0
1840.9891	10.01	-1.30	312772.010	3.5	318202.390	2.5
1841.1383	10.01	-3.14	312772.450	2.5	318202.390	2.5
1841.1451	10.01	-1.47	312772.450	2.5	318202.370	1.5
1841.2264	28.01	-.56	100010.170	.5	105439.850	1.5
1841.2332	22.00	-6.86	11531.760	2.0	16961.420	3.0
1841.2807	22.00	-2.67	36351.430	5.0	41780.950	4.0
1841.3010	24.00	.25	42275.200	4.0	47704.660	4.0
1841.3648	26.00	-3.99	45551.748	1.0	50981.020	0.0
1841.4265	28.01	-.39	115956.710	2.5	121385.800	1.5
1841.5283	7.00	-4.32	110473.210	4.5	115902.000	3.5
1841.5588	15.00	-1.93	69924.700	2.5	75353.400	1.5
1841.7135	26.00	-3.22	42532.729	3.0	47960.973	4.0
1841.7420	18.00	-1.39	114821.990	3.0	120250.150	3.0
1841.7420	18.00	-.30	114821.990	3.0	120250.150	4.0
1841.7454	26.01	-4.98	44784.780	2.5	50212.930	2.5
1841.7827	10.01	-1.25	312763.910	4.5	318191.950	3.5
1842.1017	24.00	-.49	42275.200	4.0	47702.300	3.0
1842.1628	18.00	-2.41	116660.054	1.0	122086.974	2.0
1842.1954	7.00	-2.48	107182.788	1.5	112609.612	1.5
1842.2351	10.00	-.66	162419.982	2.0	167846.689	2.0
1842.2392	10.00	.67	162419.982	2.0	167846.677	3.0
1842.2579	14.00	.31	53362.240	3.0	58788.880	4.0
1842.3190	20.01	-1.27	83458.080	3.5	88884.540	3.5
1842.3190	20.01	.27	83458.080	3.5	88884.540	4.5
1842.3190	20.01	.16	83458.080	2.5	88884.540	3.5
1842.3190	10.01	-3.12	312765.490	3.5	318191.950	3.5
1842.3223	10.01	-1.37	312765.490	3.5	318191.940	2.5
1842.3230	10.00	-1.50	162419.982	2.0	167846.430	3.0
1842.3550	26.00	-3.56	46313.610	2.0	51739.964	2.0
1842.5057	28.01	.49	122441.220	4.5	127867.130	4.5
1842.5879	14.00	-4.27	59191.072	2.0	64616.740	2.0
1842.7611	28.00	-.84	45281.152	3.0	50706.310	4.0
1842.7706	16.01	-3.98	158826.870	2.5	164252.000	1.5
1842.7869	18.00	-1.04	108722.668	0.0	114147.750	1.0
1842.8521	18.00	-1.38	114805.180	2.0	120230.070	2.0
1842.9344	7.00	-1.36	107445.622	1.5	112870.270	.5
1842.9405	18.00	-.33	114805.180	2.0	120229.810	3.0
1842.9439	14.00	-.66	53362.240	3.0	58786.860	3.0
1843.1919	18.00	-1.53	119444.880	2.0	124868.770	3.0
1843.3938	28.00	-.10	50851.220	1.0	56274.516	2.0
1843.4298	22.00	-1.16	36200.940	5.0	41624.130	4.0
1843.4740	27.00	-4.29	46671.940	2.5	52095.000	3.5
1843.4954	26.00	-3.82	43108.899	4.0	48531.896	3.0
1843.5046	14.00	-2.16	59128.400	5.0	64551.370	4.0
1843.5050	26.00	-4.00	48122.913	3.0	53545.882	3.0
1843.5556	22.00	.31	39640.980	3.0	45063.800	2.0
1843.6175	18.00	-1.28	118459.662	1.0	123882.300	1.0
1843.6692	17.00	-3.33	94827.150	2.5	100249.636	2.5
1843.8715	10.00	-4.47	167047.609	2.0	172469.500	2.0
1843.8715	10.00	-3.38	167047.609	2.0	172469.500	3.0
1843.9160	10.01	-2.44	313420.090	2.5	318841.850	3.5
1844.0181	26.00	-4.98	45913.480	3.0	51334.940	4.0
1844.0351	28.01	-2.94	130480.550	3.5	135901.960	2.5
1844.0725	28.01	-4.58	113407.310	2.5	118828.610	2.5
1844.1269	26.01	-4.35	58666.360	3.5	64087.500	2.5
1844.1950	27.00	-3.94	49484.050	3.5	54904.990	2.5
1844.2320	10.00	-4.69	167048.669	3.0	172469.500	3.0
1844.2320	10.00	-4.34	167048.669	3.0	172469.500	3.0
1844.2320	10.00	-3.26	167048.669	3.0	172469.500	4.0
1844.2756	12.00	-3.29	54706.536	1.0	60127.239	2.0
1844.3154	17.00	-1.86	91173.510	1.5	96594.096	.5
1844.3923	10.01	-.89	312763.910	4.5	318184.270	4.5
1844.3957	10.01	-1.84	312763.910	4.5	318184.260	3.5
1844.4025	22.00	.47	39785.940	4.0	45206.270	3.0
1844.4093	18.00	-3.03	119444.880	2.0	124865.190	2.0
1844.4161	28.01	-1.50	121437.680	5.5	126857.970	5.5
1844.4604	18.00	-.80	119444.880	2.0	124865.040	3.0
1844.4706	7.00	-.04	104984.340	.5	110404.470	1.5
1844.5352	10.01	.03	312772.010	3.5	318191.950	3.5
1844.5386	10.01	-1.42	312772.010	3.5	318191.940	2.5
1844.5760	10.01	.85	312763.910	4.5	318183.730	5.5
1844.5896	10.01	-.25	312763.910	4.5	318183.690	4.5
1844.6850	10.01	-1.50	312772.450	2.5	318191.950	3.5
1844.6884	10.01	-.10	312772.450	2.5	318191.940	2.5
1844.6993	14.00	-3.91	59131.912	4.0	64551.370	4.0
1844.7340	18.00	-4.57	118407.494	1.0	123826.850	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1844.7599	23.00	-3.44	20830.200	.5	26249.480	1.5
1844.8109	29.01	.22	139395.800	4.0	144814.930	3.0
1844.8791	18.01	-1.21	209248.550	2.5	214667.480	2.5
1844.8797	22.00	-4.92	40302.950	3.0	45721.878	4.0
1844.8872	26.00	-3.93	46600.800	1.0	52019.706	1.0
1844.9300	10.01	.75	312765.490	3.5	318184.270	4.5
1844.9334	10.01	-.38	312765.490	3.5	318184.260	3.5
1844.9471	25.00	-3.67	57487.080	2.5	62905.810	2.5
1845.0016	14.00	-2.68	58893.400	3.0	64311.970	4.0
1845.1276	10.01	-2.88	312765.490	3.5	318183.690	4.5
1845.1480	6.01	-1.27	184376.060	3.5	189794.200	3.5
1845.1480	6.01	.28	184376.060	3.5	189794.200	4.5
1845.1480	6.01	.16	184376.060	2.5	189794.200	3.5
1845.1514	6.00	-1.63	81105.030	1.0	86523.160	0.0
1845.1617	15.00	-4.32	75705.400	3.5	81123.500	2.5
1845.1685	6.00	-4.50	84013.400	2.0	89431.480	2.0
1845.4239	23.00	-2.52	15270.420	1.5	20687.750	1.5
1845.5874	26.00	-3.74	45281.816	2.0	50698.666	2.0
1845.5908	22.01	-4.77	59467.810	3.5	64884.650	2.5
1845.8123	29.01	-1.09	115662.770	4.0	121078.960	3.0
1845.8635	10.00	-.44	161636.617	1.0	167052.657	2.0
1845.8675	10.00	-.52	161636.617	1.0	167052.645	1.0
1845.8703	18.01	-.08	209251.460	3.5	214667.480	2.5
1845.8975	6.00	-2.64	83497.620	2.0	88913.560	2.0
1846.0158	28.00	-3.97	50458.187	1.0	55873.780	2.0
1846.0213	28.00	-1.64	45418.858	2.0	50834.435	2.0
1846.2555	18.02	-4.87	204797.370	3.0	210212.260	3.0
1846.3809	17.00	-1.59	94732.300	3.5	100146.822	3.5
1846.4089	6.00	-1.58	81105.030	1.0	86519.470	1.0
1846.4628	28.00	-1.35	45122.460	1.0	50536.742	1.0
1846.4805	23.00	-4.10	32692.090	3.5	38106.320	2.5
1846.4850	26.00	-1.88	48928.423	2.0	54342.640	2.0
1846.5177	11.00	-.54	29172.839	2.5	34586.960	2.5
1846.5177	11.00	.76	29172.839	2.5	34586.960	3.5
1846.5347	11.00	.60	29172.889	1.5	34586.960	2.5
1846.5487	22.00	-3.06	41624.130	4.0	47038.160	3.0
1846.6306	24.00	-4.39	49573.030	4.0	54986.820	3.0
1846.6617	20.00	-4.51	42343.587	3.0	47757.286	2.0
1846.7159	28.01	-3.63	114836.630	3.5	120250.170	3.5
1846.7527	14.00	-3.68	58774.368	3.0	64187.800	3.0
1846.7609	18.00	-1.59	118459.662	1.0	123873.070	0.0
1846.8110	7.00	-4.62	110710.739	2.5	116124.000	2.5
1846.8281	14.00	-2.60	53362.240	3.0	58775.451	2.0
1846.8376	18.00	-.87	118469.117	2.0	123882.300	1.0
1846.8383	28.00	-1.69	45418.858	2.0	50832.039	3.0
1846.9820	18.01	-2.18	194822.100	3.5	200234.860	2.5
1847.0571	18.00	-2.32	119444.880	2.0	124857.420	2.0
1847.0639	27.00	-4.40	49484.050	3.5	54896.570	3.5
1847.0946	24.00	-4.45	41224.780	4.0	46637.210	3.0
1847.1082	18.00	-2.68	119444.880	2.0	124857.270	1.0
1847.1222	14.00	-4.95	58775.451	2.0	64187.800	3.0
1847.1458	6.00	-2.99	83820.130	1.0	89232.410	1.0
1847.1560	10.01	-.97	312772.010	3.5	318184.260	3.5
1847.1976	14.00	-.52	53362.240	3.0	58774.368	3.0
1847.2277	17.00	-2.87	96313.330	1.5	101725.370	1.5
1847.3062	10.01	.31	312772.450	2.5	318184.260	3.5
1847.3506	10.01	.43	312772.010	3.5	318183.690	4.5
1847.5790	10.00	.47	162435.678	1.0	167846.689	2.0
1847.7433	14.00	-1.81	58893.400	3.0	64303.930	3.0
1847.7877	10.01	-.56	313431.490	4.5	318841.890	4.5
1847.8013	10.01	-2.15	313431.490	4.5	318841.850	3.5
1847.8081	22.00	-4.77	42052.720	3.0	47463.060	4.0
1847.9140	24.00	-1.83	35572.940	2.0	40982.970	2.0
1847.9687	18.01	-.89	194996.490	1.5	200406.360	.5
1848.0575	10.01	-.76	313432.280	3.5	318841.890	4.5
1848.0712	10.01	-.62	313432.280	3.5	318841.850	3.5
1848.0917	10.01	.25	313419.040	1.5	318828.550	2.5
1848.1600	26.01	-4.63	58631.650	4.5	64040.960	3.5
1848.2283	26.00	-4.62	48516.150	1.0	53925.260	1.0
1848.2379	26.00	-4.82	45294.830	5.0	50703.912	5.0
1848.2591	23.01	-2.96	44159.430	2.0	49568.450	3.0
1848.3178	7.00	-3.32	110715.152	3.5	116124.000	2.5
1848.4505	10.01	-.90	313420.090	2.5	318828.550	2.5
1848.4505	10.01	-.49	313420.090	2.5	318828.550	3.5
1848.4983	24.00	-4.10	44068.720	3.0	49477.040	2.0
1848.5120	25.00	-2.58	57705.830	.5	63114.110	1.5
1848.5120	7.00	-1.04	104996.240	1.5	110404.520	2.5
1848.5291	7.00	-1.54	104996.240	1.5	110404.470	1.5
1848.5803	18.00	-2.08	114821.990	3.0	120230.070	2.0
1848.5953	18.00	-3.00	118407.494	1.0	123815.530	1.0
1848.6692	18.00	-.91	114821.990	3.0	120229.810	3.0
1848.7697	10.00	-3.64	167449.464	1.0	172856.990	1.0
1848.9154	26.00	-3.69	48361.920	4.0	53769.020	4.0
1848.9872	28.01	-.84	113225.060	.5	118631.950	.5
1849.0118	14.00	-2.02	57798.072	2.0	63204.890	2.0
1849.0145	26.02	-4.34	200325.560	4.0	205732.370	3.0
1849.2013	17.00	-3.50	96594.096	.5	102000.360	1.5
1849.2092	14.00	-1.83	57468.239	2.0	62874.480	2.0
1849.2591	7.00	-1.99	111060.905	.5	116467.000	.5
1849.2591	7.00	-1.69	111060.905	.5	116467.000	1.5
1849.5516	26.00	-4.75	45964.944	2.0	51370.184	2.0
1849.5790	18.01	-.57	196315.510	2.5	201720.670	1.5
1849.6149	18.00	-1.90	118906.665	2.0	124311.720	1.0
1849.6799	28.00	-1.01	49327.560	3.0	54732.425	2.0
1849.8117	24.00	-2.65	48558.570	2.0	53963.050	1.0
1849.8425	23.00	-2.80	20767.570	3.5	26171.960	4.5
1849.8699	14.00	-3.30	58893.400	3.0	64297.710	4.0
1849.8767	25.00	-3.48	44978.980	1.5	50383.270	1.5
1849.8904	18.01	-3.93	199525.150	1.5	204929.400	.5
1849.9017	22.00	-4.94	37743.933	3.0	43148.150	3.0
1849.9863	14.00	-2.75	58893.400	3.0	64297.370	3.0
1850.0479	26.01	-4.84	44753.820	3.5	50157.610	4.5
1850.1438	27.00	-4.46	45766.630	3.5	51170.140	4.5
1850.4245	6.00	-1.18	80782.510	1.0	86185.200	2.0
1850.4314	6.00	-2.09	83947.430	3.0	89350.100	2.0
1850.4327	10.00	-3.90	167449.464	1.0	172852.130	0.0
1850.7739	6.00	-.85	81105.030	1.0	86506.700	2.0
1850.9007	13.01	-1.25	139588.700	4.0	144990.000	4.0
1850.9007	13.01	-1.39	139588.700	4.0	144990.000	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1850.9007	13.01	.37	139588.700	4.0	144990.000	5.0
1850.9007	13.01	-3.82	139588.700	4.0	144990.000	5.0
1850.9007	13.01	-2.72	139588.700	4.0	144990.000	5.0
1850.9007	13.01	.38	139588.700	4.0	144990.000	5.0
1850.9007	13.01	-3.01	139588.700	5.0	144990.000	4.0
1850.9007	13.01	-1.26	139588.700	5.0	144990.000	5.0
1850.9007	13.01	-1.37	139588.700	5.0	144990.000	5.0
1850.9007	13.01	.46	139588.700	5.0	144990.000	6.0
1850.9007	13.01	.27	139588.700	3.0	144990.000	4.0
1850.9179	7.01	-3.97	205350.180	2.0	210751.430	1.0
1850.9282	27.00	-4.11	49025.420	1.5	54426.640	1.5
1850.9672	18.00	-3.69	118407.494	1.0	123808.600	2.0
1851.0241	14.00	-3.78	58786.860	3.0	64187.800	3.0
1851.2058	22.00	-2.01	40844.190	1.0	46244.600	2.0
1851.2058	22.00	-1.78	40844.190	3.0	46244.600	2.0
1851.2092	13.01	-3.71	142849.200	4.0	148249.600	4.0
1851.2092	13.01	-3.85	142849.200	4.0	148249.600	4.0
1851.2092	13.01	-2.18	142849.200	5.0	148249.600	4.0
1851.2263	7.00	-4.39	110501.650	4.5	115902.000	3.5
1851.2294	12.00	-2.35	54248.809	0.0	59649.150	1.0
1851.2469	7.01	-3.44	197858.690	1.0	203258.980	2.0
1851.2767	18.00	-1.23	118651.447	1.0	124051.650	2.0
1851.3806	13.01	-3.84	142849.200	3.0	148249.100	3.0
1851.3806	13.01	-2.67	142849.200	4.0	148249.100	3.0
1851.3806	13.01	-1.80	142849.200	4.0	148249.100	3.0
1851.4046	22.00	-.59	39640.980	3.0	45040.810	4.0
1851.5177	13.01	-2.41	142849.200	3.0	148248.700	2.0
1851.5829	18.01	-3.44	199679.760	2.5	205079.070	2.5
1851.6673	12.00	-1.87	54250.086	1.0	59649.150	1.0
1851.7167	14.00	-2.19	58788.880	4.0	64187.800	3.0
1851.7911	22.00	-4.38	37325.407	2.0	42724.110	2.0
1851.9122	24.00	-2.63	35572.940	2.0	40971.290	2.0
1851.9122	10.01	-1.47	312804.040	1.5	318202.390	2.5
1851.9190	10.01	-.35	312804.040	1.5	318202.370	1.5
1852.0117	27.00	-3.58	46671.940	2.5	52070.000	2.5
1852.0494	14.03	-.30	327361.970	1.5	332759.920	1.5
1852.0494	14.03	.66	327361.970	2.5	332759.920	1.5
1852.1490	10.01	-.15	312804.730	2.5	318202.390	2.5
1852.1558	10.01	-1.30	312804.730	2.5	318202.370	1.5
1852.3377	28.01	.68	133443.890	2.5	138841.000	3.5
1852.3401	17.00	-4.67	94314.206	1.5	99711.309	.5
1852.3446	28.01	-3.80	114874.880	2.5	120271.970	2.5
1852.3548	10.01	-2.51	313431.490	4.5	318828.550	3.5
1852.3686	29.01	-4.33	136336.880	1.0	141733.900	2.0
1852.3902	26.00	-4.42	24335.764	2.0	29732.721	1.0
1852.4613	6.00	-.30	78529.620	3.0	83926.370	4.0
1852.5196	6.00	-.60	78529.620	3.0	83926.200	3.0
1852.5299	24.00	-2.71	49812.460	3.0	55209.010	4.0
1852.5653	28.00	-2.04	45281.152	3.0	50677.599	3.0
1852.5732	12.00	-1.65	54252.726	2.0	59649.150	1.0
1852.6260	10.01	-2.75	313432.280	3.5	318828.550	2.5
1852.6260	10.01	-.70	313432.280	3.5	318828.550	3.5
1852.6291	7.00	-3.48	110710.739	2.5	116107.000	1.5
1852.6707	24.00	-4.63	44080.900	2.0	49477.040	2.0
1852.7187	7.00	-2.08	105008.520	2.5	110404.520	2.5
1852.7187	13.01	-4.85	139242.900	3.0	144638.900	2.0
1852.7359	7.00	-1.93	105008.520	2.5	110404.470	1.5
1852.7737	22.00	-.59	39526.890	2.0	44922.730	3.0
1852.8149	23.00	-2.12	32846.740	2.5	38242.460	3.5
1852.8149	23.00	-3.03	32846.740	2.5	38242.460	3.5
1852.8217	15.00	-4.73	75905.100	2.5	81300.800	1.5
1852.8894	26.00	-3.17	45061.287	3.0	50456.790	3.0
1852.9402	26.00	-4.28	45833.240	4.0	51228.595	5.0
1853.2600	26.00	-3.62	43137.472	3.0	48531.896	3.0
1853.2624	28.00	-1.77	43933.428	2.0	49327.845	2.0
1853.2751	29.01	.18	141542.100	2.0	146936.480	2.0
1853.2923	6.00	-3.22	83838.080	2.0	89232.410	1.0
1853.3198	25.00	-4.08	44978.980	1.5	50373.230	2.5
1853.4023	28.00	-4.15	50789.500	4.0	56183.510	4.0
1853.4297	28.01	-3.56	114874.880	2.5	120268.810	3.5
1853.5260	25.00	-4.33	57512.160	1.5	62905.810	2.5
1853.5328	7.00	-.31	105008.520	2.5	110402.150	3.5
1853.5947	6.01	-.52	179073.050	4.5	184466.500	4.5
1853.5947	6.01	1.21	179073.050	4.5	184466.500	5.5
1853.5947	6.01	1.12	179073.050	3.5	184466.500	4.5
1853.5985	17.00	-3.86	91089.450	3.5	96482.889	2.5
1853.6462	28.01	-.38	116167.760	1.5	121561.060	.5
1853.7012	29.01	-.62	118163.500	2.0	123556.640	2.0
1853.7129	22.00	-4.03	14028.470	2.0	19421.576	3.0
1853.8456	10.01	.77	313718.990	3.5	319111.710	4.5
1853.8490	10.01	-.77	313718.990	3.5	319111.700	3.5
1853.9563	7.00	-1.27	107445.622	1.5	112838.020	1.5
1853.9797	24.00	-4.68	49812.460	3.0	55204.790	3.0
1853.9797	10.01	.66	313719.370	2.5	319111.700	3.5
1854.0065	10.00	-3.83	167867.178	0.0	173259.430	1.0
1854.0244	13.01	-3.61	142179.800	1.0	147572.000	0.0
1854.0244	13.01	-3.22	142179.800	1.0	147572.000	1.0
1854.0244	13.01	-2.91	142179.800	1.0	147572.000	2.0
1854.1110	26.00	-3.57	45509.112	1.0	50901.060	2.0
1854.1141	17.00	-1.03	85735.091	1.5	91127.030	2.5
1854.1275	15.00	-1.50	72741.600	1.5	78133.500	2.5
1854.1344	29.01	-4.97	130945.000	1.0	136336.880	1.0
1854.1344	29.01	-4.50	130945.000	2.0	136336.880	1.0
1854.1379	22.00	-2.25	36065.750	3.0	41457.620	3.0
1854.1664	18.00	-2.00	119683.113	2.0	125074.900	2.0
1854.2850	26.00	-3.51	46313.610	2.0	51705.052	2.0
1854.4371	15.00	-3.98	72741.600	1.5	78132.600	.5
1854.5368	26.02	-4.68	199701.820	3.0	205092.530	4.0
1854.5712	27.00	-3.91	48546.070	1.5	53936.680	2.5
1854.6332	28.01	.18	113172.960	4.5	118563.390	3.5
1854.7261	27.00	-2.27	42811.440	3.5	48201.600	3.5
1854.7330	6.00	-3.28	78529.620	3.0	83919.760	2.0
1854.7708	6.00	-.63	78529.620	3.0	83919.650	3.0
1854.8042	18.00	-.76	118651.447	1.0	124041.380	2.0
1854.8661	18.00	-.99	118651.447	1.0	124041.200	1.0
1854.9222	24.00	-4.43	41393.470	5.0	46783.060	4.0
1854.9229	17.00	-2.94	95786.752	2.5	101176.340	2.5
1854.9553	28.00	-1.60	49185.146	2.0	54574.640	1.0
1854.9577	18.00	-2.90	119683.113	2.0	125072.600	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1854.9811	17.00	-1.63	95786.752	2.5	101176.171	3.5
1855.0874	26.01	-4.90	44753.820	3.5	50142.930	2.5
1855.0944	7.00	-.51	104996.240	1.5	110385.330	2.5
1855.2148	24.00	-3.44	49598.080	2.0	54986.820	3.0
1855.2595	7.00	-4.93	110498.390	3.5	115887.000	3.5
1855.2906	28.01	-2.71	100592.980	3.5	105981.500	4.5
1855.4293	14.00	.11	53387.334	1.0	58775.451	2.0
1855.5041	10.01	.43	312804.040	1.5	318191.940	2.5
1855.5600	2.00	-1.37	186105.000	0.0	191494.209	0.0
1855.7383	10.01	.58	312804.730	2.5	318191.950	3.5
1855.7417	10.01	-.76	312804.730	2.5	318191.940	2.5
1855.8244	27.00	-3.91	48317.170	3.5	53704.140	2.5
1855.8313	7.00	-3.23	105017.570	3.5	110404.520	2.5
1855.8468	18.00	-2.72	116942.815	3.0	122329.720	3.0
1855.9622	8.01	-3.22	240516.280	1.5	245902.850	2.5
1856.0276	6.00	-1.31	81105.030	1.0	86491.410	1.0
1856.1173	18.01	-1.44	208803.240	4.5	214189.360	4.5
1856.1173	18.01	.29	208803.240	5.5	214189.360	4.5
1856.2344	28.01	-1.55	113177.610	3.5	118563.390	3.5
1856.2345	18.00	-1.49	114821.990	3.0	120207.770	4.0
1856.2723	24.00	-4.45	49588.970	1.0	54974.640	2.0
1856.2872	26.00	-4.37	48361.920	4.0	53747.547	3.0
1856.3378	27.00	-1.09	51160.030	2.5	56545.510	2.5
1856.3758	28.01	-.77	100475.820	3.5	105861.190	2.5
1856.5068	10.01	-.79	301855.710	2.5	307240.700	3.5
1856.5171	27.00	-3.41	48317.170	3.5	53702.130	3.5
1856.5609	14.00	-1.80	57583.657	4.0	62968.490	4.0
1856.6482	7.00	-1.39	105017.570	3.5	110402.150	3.5
1856.6516	27.00	-2.80	46685.430	1.5	52070.000	2.5
1856.6791	7.00	.21	105017.570	3.5	110402.060	4.5
1856.8723	6.00	-1.98	80801.270	2.0	86185.200	2.0
1856.8888	14.00	-2.06	57541.918	1.0	62925.800	1.0
1857.0274	18.00	-.89	114805.180	2.0	120188.660	2.0
1857.0723	28.01	-4.75	110573.360	2.5	115956.710	2.5
1857.1379	18.00	-1.81	114805.180	2.0	120188.340	1.0
1857.2093	14.00	-2.13	57583.657	4.0	62966.610	5.0
1857.2863	9.00	-2.33	130221.120	1.5	135603.850	2.5
1857.3028	7.00	-1.60	107182.788	1.5	112565.470	.5
1857.3035	24.00	-4.28	43124.880	2.0	48507.560	1.0
1857.4691	24.00	-4.63	49822.590	2.0	55204.790	3.0
1857.4760	28.01	-2.76	128912.810	2.5	134294.990	2.5
1857.4829	12.01	-.58	103689.890	3.5	109072.050	3.5
1857.4829	12.01	.96	103689.890	3.5	109072.050	4.5
1857.4829	12.01	.85	103689.890	2.5	109072.050	3.5
1857.5727	14.03	.40	327361.970	1.5	332743.870	.5
1857.6313	28.01	-4.40	115739.150	4.5	121120.880	5.5
1857.6935	18.01	.20	208803.240	4.5	214184.790	3.5
1857.7418	28.01	.35	121476.560	6.5	126857.970	5.5
1857.8164	26.00	-2.75	48531.896	3.0	53913.090	2.0
1857.9524	15.00	-2.49	75689.200	1.5	81070.000	1.5
1857.9524	15.00	-3.11	76021.600	1.5	81402.400	2.5
1858.0826	28.00	-1.55	43933.428	2.0	49313.851	3.0
1858.1941	10.01	.92	312816.670	5.5	318196.770	6.5
1858.2010	10.01	-.97	312816.670	5.5	318196.750	5.5
1858.2287	10.01	.85	312816.750	4.5	318196.750	5.5
1858.2356	15.00	-4.48	67113.820	2.5	72493.800	1.5
1858.3911	10.01	-2.08	312804.730	2.5	318184.260	3.5
1858.4118	24.00	.48	36895.730	3.0	42275.200	4.0
1858.5181	14.00	-.91	57541.918	1.0	62921.080	2.0
1858.5430	9.02	-3.18	384358.540	.5	389737.630	.5
1858.6305	7.00	-1.58	107445.622	1.5	112824.459	2.5
1858.6432	13.01	-1.22	144964.700	3.0	150343.500	2.0
1858.6432	13.01	-2.64	144964.700	3.0	150343.500	3.0
1858.6432	13.01	-4.08	144964.700	3.0	150343.500	4.0
1858.6432	13.01	-1.75	144964.700	4.0	150343.500	3.0
1858.6432	13.01	-.71	144964.700	4.0	150343.500	3.0
1858.6432	13.01	-2.51	144964.700	4.0	150343.500	4.0
1858.6432	13.01	-2.65	144964.700	4.0	150343.500	4.0
1858.6432	13.01	-.99	144964.700	5.0	150343.500	4.0
1858.6800	3.00	-2.58	35012.000	0.0	40392.162	0.0
1858.7297	7.00	-1.13	105119.850	1.5	110498.400	2.5
1858.9232	7.01	-3.66	221342.810	3.0	226720.800	2.0
1859.0691	26.00	-3.39	48361.920	4.0	53739.488	5.0
1859.1271	27.00	-3.68	48317.170	3.5	53694.570	3.5
1859.1375	7.00	-4.41	105143.680	2.5	110521.050	1.5
1859.1375	10.01	-1.56	312824.840	2.5	318202.210	1.5
1859.1545	10.00	.60	161699.661	2.0	167076.982	3.0
1859.2195	26.00	-4.00	45726.104	5.0	51103.237	5.0
1859.3000	13.01	-1.43	133435.000	2.0	138811.900	2.0
1859.3000	13.01	-.70	133435.000	2.0	138811.900	1.0
1859.3000	13.01	-2.97	133435.000	2.0	138811.900	3.0
1859.3021	28.00	-4.69	43089.636	5.0	48466.530	5.0
1859.3311	7.00	-1.17	105008.520	2.5	110385.330	2.5
1859.3311	7.00	-.06	105008.520	2.5	110385.330	3.5
1859.3737	18.00	-2.69	119683.113	2.0	125059.800	2.0
1859.4522	18.01	-4.81	199679.760	2.5	205056.220	1.5
1859.4768	14.00	-.74	56780.427	1.0	62156.816	2.0
1859.4972	6.00	-4.45	83497.620	2.0	88873.950	2.0
1859.5594	29.01	-.64	117928.480	1.0	123304.630	1.0
1859.5871	28.01	-4.69	116893.980	2.5	122270.050	3.5
1859.6397	22.00	-3.36	20062.980	1.0	25438.898	2.0
1859.7704	10.00	.73	161701.451	3.0	167076.991	4.0
1859.7735	10.00	-.71	161701.451	3.0	167076.982	3.0
1859.7843	10.01	-2.46	312810.670	4.5	318186.170	4.5
1859.7946	10.01	-3.40	312810.670	4.5	318186.140	5.5
1859.7981	10.01	-3.91	312810.710	5.5	318186.170	4.5
1859.8085	10.01	-2.11	312810.710	5.5	318186.140	5.5
1859.8569	28.01	-3.12	114874.880	2.5	120250.170	3.5
1860.0576	18.01	-1.94	200880.520	3.5	206255.230	2.5
1860.1234	10.01	-3.61	312811.650	3.5	318186.170	4.5
1860.1234	10.01	-2.53	312811.650	4.5	318186.170	4.5
1860.1338	10.01	-4.44	312811.650	4.5	318186.140	5.5
1860.4418	28.01	-.82	114942.420	1.5	120316.020	.5
1860.4453	18.01	-2.71	194861.270	2.5	200234.860	2.5
1860.4522	29.01	-3.41	130386.400	2.0	135759.970	2.0
1860.4972	7.01	-2.25	221322.760	4.0	226696.200	4.0
1860.5319	7.01	-2.98	221322.860	5.0	226696.200	4.0
1860.5942	28.01	-1.47	101247.370	2.5	106620.530	3.5
1860.8886	24.00	-4.72	37233.500	5.0	42605.810	6.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1860.8948	28.00	-.02	49327.560	3.0	54699.852	3.0
1860.9960	10.01	.75	313469.890	3.5	318841.890	4.5
1861.0099	10.01	-.79	313469.890	3.5	318841.850	3.5
1861.1089	14.00	-.78	56978.256	1.0	62349.930	2.0
1861.1692	13.01	-.53	133440.400	3.0	138811.900	2.0
1861.1692	13.01	-1.43	133440.400	3.0	138811.900	3.0
1861.1934	10.01	.60	313470.420	2.5	318841.850	3.5
1861.2731	29.01	-2.49	141204.100	3.0	146575.300	2.0
1861.2835	26.00	-4.28	54555.450	4.0	59926.620	5.0
1861.3286	24.00	-2.20	48661.590	3.0	54032.630	2.0
1861.4108	14.00	-2.82	57583.657	4.0	62954.460	3.0
1861.5611	14.00	-1.25	57295.881	0.0	62666.250	1.0
1861.6059	28.01	-1.24	100490.950	1.5	105861.190	2.5
1861.6197	15.00	-2.34	75699.800	.5	81070.000	1.5
1861.7238	15.00	-2.47	76425.200	2.5	81795.100	3.5
1861.7688	27.00	-4.12	48334.370	1.5	53704.140	2.5
1861.7757	27.00	-3.25	47393.930	2.5	52763.680	3.5
1861.7861	25.00	-4.24	45013.550	2.5	50383.270	1.5
1861.8243	23.00	-3.30	20812.990	1.5	26182.600	.5
1861.8915	10.00	-.10	161699.661	2.0	167069.077	2.0
1861.8960	10.00	-1.26	161699.661	2.0	167069.064	3.0
1862.1538	10.01	-3.35	312811.650	3.5	318180.310	2.5
1862.2404	12.01	-.52	103705.660	4.5	109074.070	4.5
1862.2404	12.01	1.13	103705.660	3.5	109074.070	4.5
1862.2509	28.01	-1.02	115956.710	2.5	121325.090	2.5
1862.2647	12.01	1.22	103705.660	4.5	109074.000	5.5
1862.3133	13.01	.06	144780.200	2.0	150148.400	3.0
1862.3202	23.00	-2.91	32738.140	1.5	38106.320	2.5
1862.4184	26.00	-1.08	47960.973	4.0	53328.870	4.0
1862.4313	29.01	-4.62	146051.340	2.0	151419.200	3.0
1862.4660	7.00	-1.48	105017.570	3.5	110385.330	2.5
1862.4660	7.00	-.56	105017.570	3.5	110385.330	3.5
1862.4868	19.00	-1.75	27397.100	2.5	32764.800	2.5
1862.4868	19.00	-.45	27397.100	2.5	32764.800	3.5
1862.4934	17.00	-4.32	94314.206	1.5	99681.887	1.5
1862.5125	10.00	-1.25	161701.451	3.0	167069.077	2.0
1862.5170	10.00	.05	161701.451	3.0	167069.064	3.0
1862.5215	10.01	-1.94	312816.670	5.5	318184.270	4.5
1862.5492	10.01	-.20	312816.750	4.5	318184.270	4.5
1862.5527	10.01	-1.93	312816.750	4.5	318184.260	3.5
1862.5853	26.00	-4.01	46672.523	0.0	52039.939	1.0
1862.6394	14.00	-2.25	48020.074	1.0	53387.334	1.0
1862.6644	18.00	-4.58	118459.662	1.0	123826.850	2.0
1862.7089	10.01	-.12	312816.670	5.5	318183.730	5.5
1862.7228	28.01	-4.99	115827.120	3.5	121194.140	2.5
1862.7228	10.01	-1.80	312816.670	5.5	318183.690	4.5
1862.7367	10.01	-2.07	312816.750	4.5	318183.730	5.5
1862.7505	10.01	-2.98	312816.750	4.5	318183.690	4.5
1862.7609	29.01	-2.11	144883.090	2.0	150250.000	2.0
1862.7658	7.00	-1.50	107445.622	1.5	112812.518	2.5
1862.7783	28.01	-4.17	114836.630	3.5	120203.490	2.5
1862.8443	18.00	-2.17	114821.990	3.0	120188.660	2.0
1862.8478	19.00	-.61	27398.140	1.5	32764.800	2.5
1862.8963	28.01	.22	117074.700	3.5	122441.220	4.5
1862.9727	29.01	-.89	140589.400	0.0	145955.700	1.0
1863.0213	7.00	-1.18	105119.850	1.5	110486.010	2.5
1863.0282	7.01	-3.86	221322.760	4.0	226688.900	5.0
1863.0317	24.00	-3.40	49620.690	4.0	54986.820	3.0
1863.0491	7.00	-.75	105119.850	1.5	110485.930	1.5
1863.0629	20.01	-1.10	84933.650	1.5	90299.690	2.5
1863.0629	7.01	-2.12	221322.860	5.0	226688.900	5.0
1863.2283	18.00	-1.15	111818.090	1.0	117183.654	2.0
1863.2505	25.00	-4.28	57485.970	2.5	62851.470	3.5
1863.3546	28.01	-4.10	115827.120	3.5	121192.320	3.5
1863.3581	25.00	-3.86	57305.620	3.5	62670.810	4.5
1863.4067	18.01	-.40	200880.520	3.5	206245.570	3.5
1863.4311	22.00	-4.29	37359.130	2.0	42724.110	2.0
1863.4762	22.00	-3.34	41917.050	4.0	47281.900	3.0
1863.4832	27.00	-4.32	45688.150	2.5	51052.980	3.5
1863.4936	17.00	-1.43	90948.530	1.5	96313.330	1.5
1863.5631	13.01	-.37	133447.300	4.0	138811.900	3.0
1863.6117	24.00	-2.43	35618.510	1.0	40982.970	2.0
1863.6747	2.01	1.79	421353.130	0.0	426718.873	0.0
1863.6846	28.01	-2.83	95893.760	1.5	101258.010	1.5
1863.6985	23.02	-2.72	155801.600	1.5	161165.810	2.5
1863.7159	8.01	-4.91	248425.350	.5	253789.510	.5
1863.7701	26.00	-2.15	39969.830	3.0	45333.834	2.0
1863.9766	18.01	-1.81	205221.470	1.5	210584.880	1.5
1864.0217	20.01	-.95	84936.410	2.5	90299.690	3.5
1864.0217	20.01	-2.25	84936.410	2.5	90299.690	2.5
1864.0731	14.00	-3.28	59034.988	3.0	64398.120	2.0
1864.0981	18.01	-.31	189934.550	.5	195297.610	1.5
1864.1527	18.00	-2.51	117151.387	1.0	122514.290	1.0
1864.1732	18.00	-2.58	121161.356	1.0	126524.200	0.0
1864.2094	28.01	-3.86	70358.940	4.5	75721.680	5.5
1864.3555	18.00	-2.61	119760.220	1.0	125122.540	0.0
1864.3832	28.01	-.31	100475.820	3.5	105838.060	3.5
1864.3832	28.01	-1.41	100619.260	4.5	105981.500	4.5
1864.4858	7.00	-2.67	107445.622	1.5	112807.567	.5
1864.6173	26.00	-4.28	42859.756	2.0	48221.323	1.0
1864.6545	10.01	-1.06	301948.000	1.5	307309.460	.5
1864.7032	27.00	-2.74	46671.940	2.5	52033.260	1.5
1864.7901	28.01	-1.48	100078.780	1.5	105439.850	1.5
1864.8148	20.00	-.93	41679.008	1.0	47040.007	2.0
1864.8701	28.01	-4.65	131032.010	2.5	136392.850	3.5
1865.0789	10.01	-1.31	302816.980	1.5	308177.220	1.5
1865.2737	25.00	-3.37	45013.550	2.5	50373.230	2.5
1865.2863	26.00	-4.74	48531.896	3.0	53891.540	3.0
1865.3252	26.00	-4.16	45608.341	6.0	50967.873	6.0
1865.3712	18.01	-3.29	190507.360	1.5	195866.760	1.5
1865.3977	14.00	-.61	57017.496	2.0	62376.820	3.0
1865.4520	17.00	-3.72	91127.030	2.5	96486.198	1.5
1865.4652	10.01	-2.30	312843.080	1.5	318202.210	1.5
1865.4895	10.01	-3.14	312843.150	2.5	318202.210	1.5
1865.5626	10.00	-4.26	161701.451	3.0	167060.301	4.0
1865.5905	10.01	.17	312843.600	.5	318202.370	1.5
1865.6288	10.01	-2.11	313469.890	3.5	318828.550	2.5
1865.6288	10.01	-1.71	313469.890	3.5	318828.550	3.5
1865.6775	10.01	-1.78	312843.080	1.5	318201.600	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1865.7263	24.00	.37	36895.730	3.0	42254.110	3.0
1865.7506	25.00	-3.90	56356.210	3.5	61714.520	4.5
1865.8098	22.00	-2.63	34327.960	1.0	39686.100	2.0
1865.8134	10.01	-.81	313470.420	2.5	318828.550	2.5
1865.8134	10.01	.41	313470.420	2.5	318828.550	3.5
1865.8168	7.00	.11	105143.680	2.5	110501.800	3.5
1865.8864	16.00	-.72	75951.060	1.0	81308.980	2.0
1865.9317	10.01	.43	312844.600	1.5	318202.390	2.5
1865.9387	10.01	-.53	312844.600	1.5	318202.370	1.5
1865.9516	18.00	-4.82	118469.117	2.0	123826.850	2.0
1866.0641	16.00	-1.45	75951.570	2.0	81308.980	2.0
1866.0641	16.00	-.55	75951.570	2.0	81308.980	3.0
1866.0780	24.00	-2.03	35572.940	2.0	40930.310	1.0
1866.0954	25.00	-4.19	52128.650	2.5	57485.970	2.5
1866.1094	18.01	-2.78	190507.360	1.5	195864.640	2.5
1866.1313	20.00	-1.41	41679.008	1.0	47036.225	1.0
1866.1930	21.00	-4.88	31215.760	2.5	36572.800	2.5
1866.2208	22.00	-3.29	41481.130	5.0	46838.090	4.0
1866.3044	28.01	-.97	128924.940	6.5	134281.660	5.5
1866.3184	12.01	-2.66	103705.660	3.5	109062.340	3.5
1866.3184	12.01	-1.12	103705.660	4.5	109062.340	3.5
1866.3184	12.01	-1.23	103705.660	3.5	109062.340	2.5
1866.3602	22.00	-3.55	41368.860	4.0	46725.420	3.0
1866.3790	7.00	-1.52	107253.106	2.5	112609.612	1.5
1866.3856	18.00	-2.23	119683.113	2.0	125039.600	1.0
1866.5553	22.00	-3.41	42107.060	4.0	47463.060	4.0
1866.6013	18.00	-2.73	118459.662	1.0	123815.530	1.0
1866.6044	17.00	-2.21	91127.030	2.5	96482.889	2.5
1866.6564	27.00	-2.66	46685.430	1.5	52041.140	.5
1866.6599	29.01	-3.44	141204.100	3.0	146559.800	4.0
1866.7017	21.01	-3.58	55715.520	1.0	61071.100	1.0
1866.7052	18.01	-4.33	190511.190	2.5	195866.760	1.5
1866.7219	26.00	-3.82	46901.808	1.0	52257.330	0.0
1866.7331	10.01	-1.41	312824.820	3.5	318180.310	2.5
1866.7400	10.01	-2.67	312824.840	2.5	318180.310	2.5
1866.7613	7.00	-1.56	107445.622	1.5	112801.031	1.5
1866.8167	28.01	-2.34	128939.740	1.5	134294.990	2.5
1866.8272	26.00	-4.65	48475.740	3.0	53830.960	3.0
1866.8691	6.00	-4.17	83877.310	1.0	89232.410	1.0
1866.8760	7.01	-2.51	205350.180	2.0	210705.260	2.0
1866.8935	10.01	-4.88	312824.840	2.5	318179.870	1.5
1867.0015	7.00	-2.18	105143.680	2.5	110498.400	2.5
1867.0050	7.00	-3.39	105143.680	2.5	110498.390	3.5
1867.0887	23.00	-3.49	20767.570	3.5	26122.040	3.5
1867.2840	23.00	-3.26	31721.730	4.5	37075.640	4.5
1867.3886	28.01	-4.26	95893.760	1.5	101247.370	2.5
1867.4444	18.01	-3.61	190511.190	2.5	195864.640	2.5
1867.4549	28.01	-3.41	115827.120	3.5	121180.540	4.5
1867.4653	7.01	-3.83	221342.810	3.0	226696.200	4.0
1867.5037	16.00	-1.45	75955.700	3.0	81308.980	3.0
1867.5037	16.00	-.39	75955.700	3.0	81308.980	4.0
1867.5037	16.00	-3.00	75955.700	3.0	81308.980	2.0
1867.5212	7.01	-4.92	221322.760	4.0	226675.990	3.0
1867.5316	7.01	-4.16	221343.000	4.0	226696.200	4.0
1867.5480	14.00	-1.78	57583.657	4.0	62936.810	4.0
1867.6028	10.00	-2.38	161699.661	2.0	167052.657	2.0
1867.6070	10.00	-1.38	161699.661	2.0	167052.645	1.0
1867.6643	7.00	-.73	104996.240	1.5	110349.060	2.5
1867.6782	24.00	-2.52	35618.510	1.0	40971.290	2.0
1867.6991	10.01	-1.11	312833.450	5.5	318186.170	4.5
1867.7095	10.01	-2.92	312833.450	5.5	318186.140	5.5
1867.7165	10.01	-1.04	312833.470	6.5	318186.140	5.5
1867.7759	29.01	-1.69	141204.100	3.0	146556.600	3.0
1867.7898	29.01	-2.97	146051.340	1.0	151403.800	2.0
1867.7898	29.01	-4.68	146051.340	2.0	151403.800	2.0
1867.8108	23.00	-3.28	20830.200	.5	26182.600	.5
1867.8108	28.01	-4.92	95893.760	1.5	101246.160	.5
1867.9144	14.00	-2.62	57583.657	4.0	62935.760	3.0
1867.9993	18.01	-2.84	194883.000	3.5	200234.860	2.5
1868.0362	26.00	-3.07	47929.981	4.0	53281.735	5.0
1868.0655	6.00	-3.27	83947.430	3.0	89299.100	3.0
1868.1458	28.01	-4.06	115827.120	3.5	121178.560	3.5
1868.1598	23.00	-1.74	32891.060	3.5	38242.460	3.5
1868.2017	10.01	-1.66	313744.530	3.5	319095.810	2.5
1868.2052	28.01	-4.28	116824.150	2.5	122175.420	2.5
1868.2275	10.00	-1.19	161701.451	3.0	167052.657	2.0
1868.2631	17.00	-2.81	96594.096	.5	101945.200	.5
1868.2631	17.00	-2.28	96594.096	.5	101945.200	1.5
1868.2785	29.01	-2.70	146051.340	2.0	151402.400	3.0
1868.3030	10.01	-3.09	313744.530	3.5	319095.520	3.5
1868.3204	10.01	-1.54	313744.580	4.5	319095.520	3.5
1868.4112	28.01	-1.58	128944.310	2.5	134294.990	2.5
1868.4251	20.01	-1.31	83540.000	4.5	88890.640	4.5
1868.4251	20.01	.42	83540.000	4.5	88890.640	5.5
1868.4251	20.01	.33	83540.000	3.5	88890.640	4.5
1868.4810	7.01	0.00	221141.610	3.0	226492.090	4.0
1868.5369	10.01	-1.68	312810.670	4.5	318160.990	3.5
1868.5683	24.00	-4.83	38730.670	2.0	44080.900	2.0
1868.5928	18.01	-.08	203918.150	1.5	209268.310	1.5
1868.6000	2.00	1.18	186102.000	0.0	191453.600	0.0
1868.6068	22.00	-4.00	43674.310	4.0	49024.430	3.0
1868.6137	15.00	.39	72493.800	1.5	77843.900	2.5
1868.6172	18.01	-2.44	203344.980	1.5	208695.070	1.5
1868.7454	37.00	-2.06	26311.437	0.0	31662.621	0.0
1868.7604	28.01	-3.11	128924.940	6.5	134274.620	5.5
1868.7745	10.01	-1.40	312811.650	3.5	318161.290	2.5
1868.8233	15.00	-3.50	72493.800	1.5	77843.300	1.5
1868.8373	6.00	-2.65	84032.150	1.0	89381.610	0.0
1868.8792	10.01	-2.14	312811.650	3.5	318160.990	3.5
1868.8792	10.01	-1.42	312811.650	4.5	318160.990	3.5
1868.9072	28.01	-1.88	128912.810	2.5	134262.070	3.5
1869.0197	18.00	-3.22	118459.662	1.0	123808.600	2.0
1869.0539	10.01	-1.41	302425.870	1.5	307774.710	1.5
1869.0679	24.00	-4.47	52012.440	2.0	57361.240	3.0
1869.2017	17.00	-3.72	95597.593	.5	100946.010	.5
1869.3160	26.02	-4.86	200384.280	3.0	205732.370	3.0
1869.3440	28.01	-4.61	114874.880	2.5	120222.890	1.5
1869.4069	27.00	-3.45	46685.430	1.5	52033.260	1.5
1869.4908	24.00	-4.97	52003.060	1.0	57350.650	2.0
1869.5782	10.01	-2.91	312844.600	1.5	318191.940	2.5
1869.6331	26.00	-4.44	46672.523	0.0	52019.706	1.0
1869.6341	7.01	-1.11	221141.610	3.0	226488.790	3.0
1869.6900	2.00	.70	186105.000	0.0	191453.480	0.0
1869.7566	18.01	-4.71	189934.550	.5	195281.380	.5
1869.8789	10.01	-1.51	312810.670	4.5	318157.150	3.5
1869.8894	26.02	-4.32	200325.560	4.0	205672.010	4.0
1869.9023	18.00	-3.86	118469.117	2.0	123815.530	1.0
1869.9069	13.01	-.80	144964.700	4.0	150311.100	3.0
1869.9069	13.01	-1.71	144964.700	4.0	150311.100	3.0
1869.9069	13.01	-2.52	144964.700	3.0	150311.100	3.0
1869.9398	17.00	-2.81	95706.534	1.5	101052.840	2.5
1869.9594	29.01	-4.12	146072.950	3.0	151419.200	3.0
1869.9594	29.01	-2.82	146072.950	2.0	151419.200	3.0
1870.0818	7.01	-3.67	221343.000	4.0	226688.900	5.0
1870.1063	28.01	-.71	114970.190	.5	120316.020	.5
1870.1413	25.00	-3.95	45013.550	2.5	50359.280	3.5
1870.2078	12.01	-1.26	109062.340	3.5	114407.880	3.5
1870.2078	12.01	.28	109062.340	3.5	114407.880	4.5
1870.2078	12.01	.17	109062.340	2.5	114407.880	3.5
1870.2218	10.01	-2.40	312811.650	3.5	318157.150	3.5
1870.2218	10.01	-1.67	312811.650	4.5	318157.150	3.5
1870.2497	10.01	-3.42	302831.800	.5	308177.220	1.5
1870.2602	10.01	-2.02	312810.670	4.5	318156.060	4.5
1870.2742	10.01	-1.15	312810.710	5.5	318156.060	4.5
1870.3100	3.00	1.01	31283.000	0.0	36629.707	0.0
1870.3792	14.00	-4.54	58788.880	4.0	64133.930	4.0
1870.3893	14.00	-1.76	57468.239	2.0	62813.260	1.0
1870.4247	27.00	-4.20	50105.050	1.5	55449.970	2.5
1870.4947	21.00	-1.39	20239.920	3.5	25584.640	2.5
1870.4947	23.02	-3.17	155682.600	3.5	161027.320	4.5
1870.6032	10.01	-3.46	312811.650	3.5	318156.060	4.5
1870.6032	10.01	-2.50	312811.650	4.5	318156.060	4.5
1870.6732	29.01	-1.47	141542.100	2.0	146886.310	1.0
1870.6879	26.00	-3.87	46410.366	1.0	51754.534	1.0
1870.8062	17.00	-2.61	94827.150	2.5	100170.980	1.5
1870.8447	23.00	-4.80	15688.800	2.5	21032.520	3.5
1870.8622	23.00	-2.46	32660.260	2.5	38003.930	1.5
1870.9463	22.00	-5.48	11531.760	2.0	16875.190	2.0
1870.9918	28.01	-3.21	130301.800	6.5	135645.100	5.5
1871.0128	28.01	-1.52	128912.810	2.5	134256.050	2.5
1871.0555	12.00	-2.75	53134.642	2.0	58477.760	2.0
1871.0863	7.01	-2.74	221141.610	3.0	226484.640	2.0
1871.1424	21.00	-4.83	33906.400	4.5	39249.270	5.5
1871.1424	6.00	-2.99	73975.910	0.0	79318.780	1.0
1871.2930	10.01	-3.27	318828.550	2.5	324170.990	2.5
1871.2930	10.01	-3.14	318828.550	3.5	324170.990	2.5
1871.3024	37.00	-2.58	26311.437	0.0	31655.309	0.0
1871.3147	12.00	-2.27	53134.642	2.0	58477.020	1.0
1871.3315	7.00	-1.31	105143.680	2.5	110486.010	2.5
1871.3385	26.00	-4.43	28604.610	2.0	33946.920	2.0
1871.3385	24.00	.22	36895.730	3.0	42238.040	2.0
1871.3560	28.01	-2.58	128924.940	6.5	134267.200	6.5
1871.3560	28.01	-2.88	128924.940	7.5	134267.200	6.5
1871.3560	10.01	-4.64	318828.550	2.5	324170.810	3.5
1871.3560	10.01	-3.10	318828.550	3.5	324170.810	3.5
1871.3595	7.00	-1.74	105143.680	2.5	110485.930	1.5
1871.3945	7.00	-4.53	110544.850	2.5	115887.000	3.5
1871.4681	28.01	-.09	101740.270	3.5	107082.210	2.5
1871.4891	28.01	-3.22	128912.810	2.5	134254.690	1.5
1871.5137	10.01	-4.18	318183.690	4.5	323525.500	5.5
1871.5172	10.01	-4.44	318183.730	5.5	323525.530	4.5
1871.5277	10.01	-2.51	318183.730	5.5	323525.500	5.5
1871.6188	24.00	-4.44	49477.040	1.0	54818.550	2.0
1871.6188	24.00	-4.49	49477.040	2.0	54818.550	2.0
1871.7029	10.01	-4.33	318184.260	3.5	323525.530	4.5
1871.7064	25.00	-3.61	51014.950	3.5	56356.210	3.5
1871.7064	10.01	-2.60	318184.270	4.5	323525.530	4.5
1871.7141	22.00	-5.03	13981.750	1.0	19322.988	2.0
1871.7168	10.01	-4.32	318184.270	4.5	323525.500	5.5
1871.7729	7.01	-.84	221141.610	3.0	226482.680	3.0
1871.7765	24.00	-4.17	52031.720	3.0	57372.780	4.0
1871.9307	7.00	-.48	105008.520	2.5	110349.140	3.5
1871.9587	7.00	-1.93	105008.520	2.5	110349.060	2.5
1871.9727	7.01	-1.28	221380.300	3.0	226720.800	2.0
1872.0095	26.00	-4.08	46727.055	2.0	52067.450	2.0
1872.0190	28.00	-2.73	49327.560	3.0	54667.928	4.0
1872.0587	11.00	-1.74	33200.675	.5	38540.930	1.5
1872.1340	28.01	-3.06	128912.810	2.5	134252.850	3.5
1872.1795	7.00	-4.32	105119.850	1.5	110459.760	.5
1872.1795	7.00	-1.94	105119.850	1.5	110459.760	1.5
1872.2872	14.00	-.05	49188.617	2.0	54528.220	2.0
1872.3216	11.00	-2.04	33200.675	.5	38540.180	.5
1872.3293	18.00	-3.31	118469.117	2.0	123808.600	2.0
1872.3868	18.00	-3.37	116942.815	3.0	122282.134	2.0
1872.3935	15.00	-4.22	76425.200	2.5	81764.500	1.5
1872.4461	10.01	-4.51	318184.260	3.5	323523.410	2.5
1872.5505	17.00	-3.36	95706.534	1.5	101045.386	1.5
1872.6144	18.01	-4.35	194800.180	4.5	200138.850	3.5
1872.6439	7.00	-1.73	107588.469	.5	112927.055	1.5
1872.6741	6.00	-4.85	83497.620	2.0	88836.120	3.0
1872.6951	23.00	-3.70	32767.880	1.5	38106.320	2.5
1872.7968	28.00	-2.32	43933.428	2.0	49271.578	3.0
1872.8319	24.00	-4.72	38730.670	2.0	44068.720	3.0
1872.8354	12.01	-1.91	112301.470	3.5	117639.510	3.5
1872.8354	12.01	-.37	112301.470	3.5	117639.510	4.5
1872.8354	12.01	-.48	112301.470	2.5	117639.510	3.5
1872.8705	10.01	-.70	302839.280	2.5	308177.220	1.5
1872.8775	24.00	-4.13	49466.770	2.0	54804.690	1.0
1872.9196	56.01	.37	61336.000	0.0	66675.257	0.0
1873.0386	14.00	-2.96	57328.789	1.0	62666.250	1.0
1873.1197	10.01	-3.26	312843.080	1.5	318180.310	2.5
1873.1443	10.01	-2.12	312843.150	2.5	318180.310	2.5
1873.2049	22.00	-4.85	37743.933	3.0	43080.920	2.0
1873.2320	28.01	-2.09	128912.810	2.5	134249.720	1.5
1873.2741	10.01	-2.48	312843.080	1.5	318179.870	1.5
1873.2986	10.01	-1.52	312843.150	2.5	318179.870	1.5
1873.3092	12.01	-1.32	109072.050	4.5	114408.740	4.5
1873.3092	12.01	.42	109072.050	4.5	114408.740	5.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1873.3092	12.01	.33	109072.050	3.5	114408.740	4.5
1873.3338	28.01	-1.44	128958.370	3.5	134294.990	2.5
1873.3408	24.00	-4.54	49650.220	3.0	54986.820	3.0
1873.3864	10.01	-2.75	312824.820	3.5	318161.290	2.5
1873.3934	10.01	-2.09	312824.840	2.5	318161.290	2.5
1873.4918	10.01	-3.07	312824.820	3.5	318160.990	3.5
1873.4988	10.01	-3.50	312824.840	2.5	318160.990	3.5
1873.5329	14.00	-.64	57198.027	3.0	62534.080	4.0
1873.5479	23.00	-3.32	15270.420	1.5	20606.430	.5
1873.6954	7.01	-1.30	221342.810	3.0	226678.400	2.0
1873.7235	28.01	-3.03	128950.870	3.5	134286.380	4.5
1873.8046	28.00	-1.44	45418.858	2.0	50754.137	2.0
1873.9202	18.01	-1.39	205249.930	2.5	210584.880	1.5
1873.9764	23.00	-3.66	36983.630	1.5	42318.420	1.5
1874.0147	26.00	-2.78	47834.529	5.0	53169.210	6.0
1874.0357	14.00	-1.30	57468.239	2.0	62802.860	3.0
1874.1872	22.00	-2.10	34327.960	1.0	39662.150	1.0
1874.2715	7.00	-4.45	110521.050	1.5	115855.000	2.5
1874.2789	17.00	-.42	85735.091	1.5	91069.020	.5
1874.2960	12.01	-1.96	109074.000	5.5	114407.880	4.5
1874.3206	12.01	-3.70	109074.070	4.5	114407.880	4.5
1874.3206	12.01	-2.05	109074.070	4.5	114407.880	3.5
1874.3758	17.00	-2.97	95612.357	1.5	100946.010	.5
1874.4226	24.00	-3.67	35572.940	2.0	40906.460	1.0
1874.5010	18.00	-2.10	111818.090	1.0	117151.387	1.0
1874.5315	23.00	-2.36	34065.610	2.5	39398.820	3.5
1874.5421	7.01	-2.58	221342.810	3.0	226675.990	3.0
1874.6089	7.01	-1.17	221343.000	4.0	226675.990	3.0
1874.6370	23.00	-2.76	20789.130	2.5	26122.040	3.5
1874.6897	10.01	-4.83	318828.550	2.5	324161.310	3.5
1874.7593	14.00	-.72	57541.918	1.0	62874.480	2.0
1874.8043	14.00	-1.39	57017.496	2.0	62349.930	2.0
1874.8100	14.00	-1.39	57798.072	2.0	63130.490	1.0
1874.8409	10.01	-2.02	312824.820	3.5	318157.150	3.5
1874.8479	10.01	-3.25	312824.840	2.5	318157.150	3.5
1874.8479	18.01	-3.73	206336.870	2.5	211669.180	2.5
1874.8796	7.01	-1.03	221363.980	5.0	226696.200	4.0
1874.8937	18.01	-2.12	206337.000	3.5	211669.180	2.5
1874.9780	28.01	-1.54	116468.400	1.5	121800.340	1.5
1875.0501	37.00	-1.27	23715.081	0.0	29048.272	0.0
1875.1011	28.01	-2.40	130313.510	5.5	135645.100	5.5
1875.1081	7.00	-2.23	105017.570	3.5	110349.140	3.5
1875.1328	12.01	-2.99	109072.050	3.5	114403.550	3.5
1875.1328	12.01	-1.45	109072.050	4.5	114403.550	3.5
1875.1328	12.01	-1.56	109072.050	3.5	114403.550	2.5
1875.1363	7.00	-4.03	105017.570	3.5	110349.060	2.5
1875.1398	10.01	-2.28	318183.690	4.5	323515.170	3.5
1875.1433	10.01	-3.17	318191.940	2.5	323523.410	2.5
1875.1468	10.01	-1.83	318191.950	3.5	323523.410	2.5
1875.2242	10.01	-3.30	312824.820	3.5	318156.060	4.5
1875.2594	27.00	-3.55	47128.960	2.5	52460.100	2.5
1875.3403	10.01	-2.74	318184.260	3.5	323515.170	3.5
1875.3439	10.01	-1.96	318184.270	4.5	323515.170	3.5
1875.3614	29.01	-2.97	146072.950	3.0	151403.800	2.0
1875.3614	29.01	-1.82	146072.950	2.0	151403.800	2.0
1875.4142	29.01	-2.55	141244.600	1.0	146575.300	2.0
1875.4367	18.00	-4.32	117183.654	2.0	122514.290	1.0
1875.4740	28.01	-3.97	115785.060	1.5	121115.590	1.5
1875.5021	12.01	-4.04	112309.060	4.5	117639.510	4.5
1875.5021	12.01	-2.31	112309.060	5.5	117639.510	4.5
1875.5021	12.01	-2.40	112309.060	4.5	117639.510	3.5
1875.5408	7.01	-1.57	197858.690	1.0	203189.030	1.0
1875.5440	18.00	-2.72	116999.389	2.0	122329.720	3.0
1875.6999	26.00	-4.47	48238.832	2.0	53568.720	2.0
1875.7274	10.01	-2.33	318183.690	4.5	323513.500	3.5
1875.7309	22.00	-3.53	35757.510	4.0	41087.310	3.0
1875.7309	15.00	-3.18	76192.300	1.5	81522.100	2.5
1875.8020	26.00	-3.62	46410.366	1.0	51739.964	2.0
1875.8294	24.00	-4.78	52031.720	3.0	57361.240	3.0
1875.8364	13.01	-.07	144780.200	2.0	150109.700	3.0
1875.8399	10.01	-1.74	319111.700	3.5	324441.190	2.5
1875.8541	29.01	-1.66	146072.950	3.0	151402.400	3.0
1875.8541	29.01	-3.12	146072.950	2.0	151402.400	3.0
1875.8822	10.01	-3.17	319111.700	3.5	324441.070	3.5
1875.8857	10.01	-1.63	319111.710	4.5	324441.070	3.5
1875.8928	10.01	-2.64	318183.690	4.5	323513.030	4.5
1875.9068	10.01	-1.56	318183.730	5.5	323513.030	4.5
1875.9174	18.01	-2.20	209338.210	3.5	214667.480	2.5
1875.9280	10.01	-3.64	318184.260	3.5	323513.500	3.5
1875.9315	10.01	-1.95	318184.270	4.5	323513.500	3.5
1875.9350	23.00	-4.39	36989.200	2.5	42318.420	1.5
1875.9632	10.01	-3.76	318841.850	3.5	324170.990	2.5
1875.9667	10.01	-2.98	318828.550	2.5	324157.680	2.5
1875.9667	10.01	-2.47	318828.550	3.5	324157.680	2.5
1876.0107	28.00	-.68	49403.420	1.0	54732.425	2.0
1876.0266	10.01	-2.82	318841.850	3.5	324170.810	3.5
1876.0406	10.01	-3.07	318841.890	4.5	324170.810	3.5
1876.0547	10.01	-2.20	318828.550	2.5	324157.430	1.5
1876.0829	13.01	.69	133914.100	2.0	139242.900	3.0
1876.0864	28.01	-.49	98969.440	5.5	104298.230	4.5
1876.0899	10.01	-1.55	318196.750	5.5	323525.530	4.5
1876.0935	10.01	-4.23	318184.260	3.5	323513.030	4.5
1876.0970	10.01	-3.28	318184.270	4.5	323513.030	4.5
1876.1005	10.01	-3.36	318196.750	5.5	323525.500	5.5
1876.1076	10.01	-1.47	318196.770	6.5	323525.500	5.5
1876.1498	28.01	-2.93	114874.880	2.5	120203.490	2.5
1876.1885	15.00	-2.96	75905.100	2.5	81233.600	3.5
1876.1955	25.02	-4.71	115762.600	1.5	121091.080	1.5
1876.2307	7.01	-4.24	221163.710	3.0	226492.090	4.0
1876.2307	7.01	-2.70	221163.710	4.0	226492.090	4.0
1876.2448	18.01	-1.85	203344.980	1.5	208673.320	2.5
1876.2624	26.00	-4.96	49227.160	3.0	54555.450	4.0
1876.2765	23.01	-4.50	32040.760	2.0	37369.010	2.0
1876.3392	18.00	-1.18	117151.387	1.0	122479.459	1.0
1876.3610	28.01	-2.37	128958.370	3.5	134286.380	4.5
1876.4703	6.01	-3.66	184466.500	4.5	189794.200	4.5
1876.4703	6.01	-1.93	184466.500	5.5	189794.200	4.5
1876.4703	6.01	-2.02	184466.500	4.5	189794.200	3.5
1876.4878	24.00	-4.97	49477.040	1.0	54804.690	1.0
1876.4878	24.00	-4.03	49477.040	2.0	54804.690	1.0
1876.5548	28.01	-2.79	131221.090	3.5	136548.550	2.5
1876.5759	15.00	-3.03	72741.600	1.5	78069.000	1.5
1876.7098	28.01	-1.05	130313.510	5.5	135640.530	4.5
1876.7732	28.01	-2.86	115785.060	1.5	121111.900	.5
1876.8472	18.01	-3.93	206336.870	2.5	211663.500	3.5
1876.8929	18.01	-2.22	206337.000	3.5	211663.500	3.5
1876.9423	28.01	-2.61	128924.940	7.5	134251.300	7.5
1876.9423	28.01	-3.56	128924.940	6.5	134251.300	7.5
1877.0551	28.01	-2.89	131221.090	3.5	136547.130	3.5
1877.1270	26.00	-4.18	46888.494	2.0	52214.330	1.0
1877.1961	28.01	-1.35	128960.740	5.5	134286.380	4.5
1877.2172	28.01	-3.00	131222.970	1.5	136548.550	2.5
1877.2348	28.01	-1.87	131223.020	2.5	136548.550	2.5
1877.2771	28.01	-3.16	131221.090	3.5	136546.500	4.5
1877.2771	22.00	-1.29	36132.210	4.0	41457.620	3.0
1877.3014	18.00	-1.25	119023.699	4.0	124349.040	3.0
1877.3406	28.01	-4.66	130751.030	5.5	136076.260	4.5
1877.3899	29.01	-3.16	146094.110	4.0	151419.200	3.0
1877.3899	29.01	-1.73	146094.110	3.0	151419.200	3.0
1877.3935	7.01	-2.95	221163.710	3.0	226488.790	3.0
1877.3935	7.01	-2.88	221163.710	4.0	226488.790	3.0
1877.4033	20.00	-2.30	42518.708	1.0	47843.760	0.0
1877.4499	7.01	-2.77	221363.980	5.0	226688.900	5.0
1877.4569	7.01	-.95	221364.000	6.0	226688.900	5.0
1877.5133	28.01	.36	98822.550	6.5	104147.290	5.5
1877.5240	7.01	-2.68	221167.380	4.0	226492.090	4.0
1877.5743	26.00	-3.08	46137.140	3.0	51461.707	4.0
1877.5910	7.01	-1.02	221167.570	5.0	226492.090	4.0
1877.6262	24.00	-3.00	49650.220	3.0	54974.640	2.0
1877.6685	28.01	-3.22	114874.880	2.5	120199.180	1.5
1877.7355	28.01	-2.95	131223.020	2.5	136547.130	3.5
1877.7884	29.01	-1.80	146051.340	2.0	151375.300	2.0
1877.7884	29.01	-2.80	146051.340	1.0	151375.300	2.0
1877.8237	28.01	-3.88	115870.280	2.5	121194.140	2.5
1877.8449	17.01	-1.03	141010.000	2.0	146333.800	2.0
1877.9895	22.00	-4.73	41958.510	2.0	47281.900	3.0
1878.0001	28.01	-1.65	130321.740	5.5	135645.100	5.5
1878.0459	10.01	-3.50	318191.940	2.5	323515.170	3.5
1878.0494	10.01	-2.70	318191.950	3.5	323515.170	3.5
1878.1235	18.01	-1.79	205211.890	5.5	210534.900	4.5
1878.1694	18.01	-2.90	205212.020	4.5	210534.900	4.5
1878.3123	26.00	-4.20	46744.975	3.0	52067.450	2.0
1878.4659	28.01	-3.47	115870.280	2.5	121192.320	3.5
1878.5223	24.00	-3.34	49652.760	2.0	54974.640	2.0
1878.5682	28.01	-2.67	128964.630	4.5	134286.380	4.5
1878.6155	22.00	-5.37	11639.804	3.0	16961.420	3.0
1878.6212	15.00	-1.23	75104.600	.5	80426.200	1.5
1878.6389	10.01	-2.66	318191.950	3.5	323513.500	3.5
1878.6812	18.01	-3.85	198812.550	2.5	204133.980	2.5
1878.6883	7.01	-1.13	221167.380	4.0	226488.790	3.0
1878.7447	8.01	-4.98	245902.850	2.5	251224.100	2.5
1878.7659	28.01	-1.88	131221.090	3.5	136542.280	3.5
1878.7906	27.00	-4.47	48615.560	2.5	53936.680	2.5
1878.8047	10.01	-3.65	318191.950	3.5	323513.030	4.5
1878.8153	28.01	-.91	128946.150	7.5	134267.200	6.5
1878.8189	10.01	-3.71	318202.370	1.5	323523.410	2.5
1878.8259	10.01	-2.55	318202.390	2.5	323523.410	2.5
1878.8506	7.00	-3.50	110521.050	1.5	115842.000	1.5
1878.8577	7.01	-1.26	221163.710	3.0	226484.640	2.0
1878.8612	28.01	-2.61	128960.740	6.5	134281.660	5.5
1878.8612	28.01	-1.75	128960.740	5.5	134281.660	5.5
1878.8895	28.01	-4.10	116824.150	2.5	122144.990	2.5
1878.9319	28.01	-2.01	128950.870	3.5	134271.590	4.5
1878.9718	7.00	-1.26	107588.469	.5	112909.076	1.5
1878.9739	26.00	-3.22	47834.529	5.0	53155.130	4.0
1879.0131	7.01	-2.60	221322.760	4.0	226643.250	4.0
1879.0329	26.00	-2.75	48531.896	3.0	53852.330	4.0
1879.0485	7.01	-1.06	221322.860	5.0	226643.250	4.0
1879.1190	18.01	-3.97	205214.710	3.5	210534.900	4.5
1879.1190	18.01	-2.09	205214.710	4.5	210534.900	4.5
1879.1861	17.01	-1.48	141010.000	2.0	146330.000	1.0
1879.2179	10.01	-.34	302816.980	1.5	308136.890	1.5
1879.2356	29.01	-.67	135664.340	1.0	140984.200	1.0
1879.2356	28.01	-5.00	115827.120	3.5	121146.980	2.5
1879.2356	28.01	-1.50	128966.520	4.5	134286.380	4.5
1879.2356	28.01	-1.47	128966.520	5.5	134286.380	4.5
1879.2533	18.01	-1.87	205211.890	5.5	210531.700	5.5
1879.2992	18.01	-3.17	205212.020	4.5	210531.700	5.5
1879.3020	17.00	-4.13	94827.150	2.5	100146.822	3.5
1879.3310	28.01	-3.75	130320.940	3.5	135640.530	4.5
1879.3770	10.01	-3.87	318841.850	3.5	324161.310	3.5
1879.3911	10.01	-1.67	318841.890	4.5	324161.310	3.5
1879.4476	28.01	-3.25	131223.020	2.5	136542.280	3.5
1879.4935	10.01	-4.50	318841.850	3.5	324160.980	4.5
1879.5076	10.01	-2.91	318841.890	4.5	324160.980	4.5
1879.5500	7.01	-2.50	221163.710	3.0	226482.680	3.0
1879.5500	7.01	-1.14	221163.710	4.0	226482.680	3.0
1879.6137	28.01	-2.33	130321.740	5.5	135640.530	4.5
1879.6596	24.00	-4.09	52064.270	4.0	57382.930	5.0
1879.6985	27.00	-4.48	49847.080	2.5	55165.630	2.5
1879.8186	10.01	-3.44	312843.080	1.5	318161.290	2.5
1879.8434	10.01	-4.28	312843.150	2.5	318161.290	2.5
1879.9494	10.01	-4.82	312843.150	2.5	318160.990	3.5
1879.9777	28.01	-3.27	128944.310	2.5	134262.070	3.5
1880.0605	7.00	-1.09	107628.283	1.5	112945.809	2.5
1880.0838	7.01	-1.16	221322.760	4.0	226640.220	3.0
1880.2358	28.01	-3.53	128964.630	4.5	134281.660	5.5
1880.2500	18.01	-4.08	205214.710	4.5	210531.700	5.5
1880.2952	14.00	-3.58	59034.988	3.0	64351.850	3.0
1880.3066	24.01	-4.88	49706.470	2.5	55023.300	2.5
1880.3349	18.01	-2.52	194822.100	3.5	200138.850	3.5
1880.4021	28.01	-2.35	130314.070	2.5	135630.630	2.5
1880.4092	18.01	-.65	202429.840	3.5	207746.380	2.5
1880.4835	18.01	-2.81	199679.760	2.5	204996.090	3.5
1880.4905	28.01	-2.71	128939.740	1.5	134256.050	2.5
1880.5718	7.00	-2.89	105143.680	2.5	110459.760	1.5
1880.6037	28.01	-4.73	130661.320	5.5	135977.310	4.5
1880.6355	29.01	-4.03	133826.200	2.0	139142.100	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1880.6369	22.00	-4.33	14105.680	3.0	19421.576	3.0
1880.6603	10.01	-2.55	318841.850	3.5	324157.680	2.5
1880.6638	28.01	-1.74	130324.710	4.5	135640.530	4.5
1880.7169	22.00	-4.06	41871.870	2.0	47187.540	2.0
1880.7346	18.01	-1.34	206347.880	4.5	211663.500	3.5
1880.7661	7.00	-2.53	107588.469	.5	112904.000	.5
1880.8266	22.00	-3.01	39265.800	2.0	44581.160	2.0
1880.8372	28.01	-2.73	130314.070	2.5	135629.400	3.5
1880.8479	7.01	-3.10	221167.380	4.0	226482.680	3.0
1880.8584	28.01	-1.28	131233.280	3.5	136548.550	2.5
1880.9044	28.01	-2.55	128966.520	4.5	134281.660	5.5
1880.9044	28.01	-1.95	128966.520	5.5	134281.660	5.5
1880.9717	28.01	-1.76	128939.740	1.5	134254.690	1.5
1880.9894	28.01	-2.67	130313.510	5.5	135628.410	4.5
1881.0223	14.00	-3.14	59037.043	4.0	64351.850	3.0
1881.0591	7.00	-1.52	107445.622	1.5	112760.325	2.5
1881.0672	18.00	-2.89	119760.220	1.0	125074.900	2.0
1881.1862	7.00	-2.51	107445.622	1.5	112759.966	1.5
1881.3079	10.01	-3.31	312843.150	2.5	318157.150	3.5
1881.3504	28.01	-1.04	128960.740	6.5	134274.620	5.5
1881.3504	28.01	-1.67	128960.740	5.5	134274.620	5.5
1881.3610	28.01	-1.80	131233.280	3.5	136547.130	3.5
1881.3752	28.01	-2.20	131233.320	4.5	136547.130	3.5
1881.3883	26.00	-3.60	45220.662	3.0	50534.435	3.0
1881.3929	25.00	-2.62	58110.240	4.5	63424.000	3.5
1881.4283	28.01	-4.39	96052.480	2.5	101366.140	2.5
1881.4850	28.01	-.85	128924.940	7.5	134238.440	6.5
1881.4850	28.01	-1.75	128924.940	6.5	134238.440	6.5
1881.5841	28.01	-3.32	131233.280	3.5	136546.500	4.5
1881.5841	28.01	-3.82	128958.370	3.5	134271.590	4.5
1881.5983	28.01	-1.83	131233.320	4.5	136546.500	4.5
1881.7031	26.00	-4.45	46727.055	2.0	52039.939	1.0
1881.7222	22.00	-4.11	41337.430	2.0	46650.260	3.0
1881.7293	23.02	-3.54	155853.000	2.5	161165.810	2.5
1881.7399	10.01	-3.99	318202.390	2.5	323515.170	3.5
1881.7725	17.00	-2.64	91173.510	1.5	96486.198	1.5
1881.8115	26.00	-4.53	49242.872	3.0	54555.450	4.0
1881.8313	26.00	-3.83	46901.808	1.0	52214.330	1.0
1881.8675	25.00	-4.21	45060.810	3.5	50373.230	2.5
1881.8781	18.01	-1.43	205214.710	3.5	210527.100	2.5
1881.8817	18.00	-2.21	119760.220	1.0	125072.600	1.0
1881.9596	20.01	.77	72722.230	1.5	78034.390	2.5
1882.0623	29.01	-1.17	146107.330	4.0	151419.200	3.0
1882.0871	24.00	-1.91	35618.510	1.0	40930.310	1.0
1882.1084	28.01	-2.80	128944.310	2.5	134256.050	2.5
1882.1226	29.01	-1.60	140589.400	0.0	145901.100	1.0
1882.1863	6.00	-2.34	81105.030	1.0	86416.550	1.0
1882.2997	28.01	-1.40	128950.870	3.5	134262.070	3.5
1882.3317	10.01	-4.04	318202.390	2.5	323513.500	3.5
1882.4238	25.02	-4.14	115780.230	2.5	121091.080	1.5
1882.4238	28.01	-1.65	128960.740	5.5	134271.590	4.5
1882.5798	9.00	-3.12	130374.860	1.5	135685.270	1.5
1882.5904	28.01	-1.69	128944.310	2.5	134254.690	1.5
1882.6471	14.01	-3.19	122835.390	3.5	128145.610	3.5
1882.6471	14.01	-1.64	122835.390	4.5	128145.610	3.5
1882.6471	14.01	-1.76	122835.390	3.5	128145.610	2.5
1882.6720	7.00	-3.31	110544.850	2.5	115855.000	2.5
1882.6950	10.00	-2.97	163657.268	1.0	168967.353	1.0
1882.7287	28.01	-2.16	128964.630	4.5	134274.620	5.5
1882.7322	28.01	-2.48	128939.740	1.5	134249.720	1.5
1882.8209	29.01	-.97	148145.770	5.0	153455.500	4.0
1882.8350	28.01	-3.14	130320.940	3.5	135630.630	2.5
1882.8350	29.01	-1.33	146094.110	3.0	151403.800	2.0
1882.8953	28.01	-3.10	130314.070	2.5	135623.590	1.5
1882.9453	17.00	-3.53	91173.510	1.5	96482.889	2.5
1883.0798	28.01	-4.38	131233.280	3.5	136542.280	3.5
1883.0939	28.01	-1.16	131233.320	4.5	136542.280	3.5
1883.1223	6.00	-3.00	75253.970	1.0	80562.850	1.0
1883.1542	29.01	-.83	146069.010	7.0	151377.800	6.0
1883.1542	29.01	-2.78	146069.010	6.0	151377.800	6.0
1883.2429	28.01	-2.30	128944.310	2.5	134252.850	3.5
1883.2465	28.01	-2.43	130314.070	2.5	135622.600	3.5
1883.2536	24.00	-4.81	52064.270	4.0	57372.780	4.0
1883.2663	17.00	-1.22	94663.670	1.5	99972.144	.5
1883.2713	28.01	-2.30	130320.940	3.5	135629.400	3.5
1883.2749	11.00	-1.64	35040.380	.5	40348.830	1.5
1883.2997	24.00	-1.90	48824.500	4.0	54132.880	3.0
1883.3281	23.00	-3.41	15724.220	3.5	21032.520	3.5
1883.3316	28.01	-2.00	131222.970	1.5	136531.260	1.5
1883.3316	29.01	-1.20	146094.110	4.0	151402.400	3.0
1883.3316	29.01	-2.64	146094.110	3.0	151402.400	3.0
1883.3352	28.01	-3.77	115870.280	2.5	121178.560	3.5
1883.3494	28.01	-1.54	131223.020	2.5	136531.260	1.5
1883.3990	28.01	-1.70	128966.520	5.5	134274.620	5.5
1883.5835	6.00	-2.80	75255.270	2.0	80562.850	1.0
1883.6226	28.01	-2.41	130320.940	3.5	135628.410	4.5
1883.6794	20.01	-2.90	83540.000	3.5	88847.310	3.5
1883.6794	20.01	-1.35	83540.000	4.5	88847.310	3.5
1883.6794	20.01	-1.47	83540.000	3.5	88847.310	2.5
1883.8036	28.01	-1.38	128964.630	4.5	134271.590	4.5
1883.8143	17.00	-1.24	85442.430	1.5	90749.360	2.5
1883.8852	6.00	-4.94	75256.120	0.0	80562.850	1.0
1883.8945	26.00	-1.01	48531.896	3.0	53838.600	3.0
1883.9066	28.01	-1.09	130321.740	5.5	135628.410	4.5
1883.9811	28.01	-2.58	128960.740	5.5	134267.200	6.5
1883.9811	28.01	-1.49	128960.740	6.5	134267.200	6.5
1884.1516	11.00	-1.39	35042.850	1.5	40348.830	2.5
1884.1516	11.00	-2.34	35042.850	1.5	40348.830	1.5
1884.1551	28.01	-.17	99340.550	3.5	104646.520	3.5
1884.2013	28.01	-1.68	130314.070	2.5	135619.910	1.5
1884.2758	18.01	-1.22	205221.470	1.5	210527.100	2.5
1884.2940	26.00	-4.31	45913.480	3.0	51219.059	3.0
1884.3540	28.01	-3.05	128944.310	2.5	134249.720	1.5
1884.4357	28.01	-1.66	128950.870	3.5	134256.050	2.5
1884.4463	28.01	-1.71	128946.150	7.5	134251.300	7.5
1884.4534	6.00	.44	78731.270	1.0	84036.400	2.0
1884.4677	10.01	-1.30	302831.800	.5	308136.890	1.5
1884.4712	28.01	-.79	128946.220	8.5	134251.300	7.5
1884.4747	28.01	-1.38	128966.520	5.5	134271.590	4.5
1884.4747	28.01	-3.04	128966.520	4.5	134271.590	4.5
1884.4925	6.00	-2.68	78731.270	1.0	84036.290	1.0
1884.5547	26.00	-4.09	46744.975	3.0	52049.820	2.0
1884.5696	18.00	-4.44	118469.117	2.0	123773.920	3.0
1884.6097	28.01	-1.29	130324.710	4.5	135629.400	3.5
1884.6772	28.01	-2.66	130301.800	6.5	135606.300	6.5
1884.7128	28.01	-.91	130301.800	6.5	135606.200	5.5
1884.7376	29.01	-.89	148145.770	6.0	153450.100	5.0
1884.7376	29.01	-2.70	148145.770	5.0	153450.100	5.0
1884.8514	28.01	-1.64	130314.070	2.5	135618.080	2.5
1884.9011	23.00	-2.15	31721.730	4.5	37025.600	3.5
1884.9296	7.01	-3.59	197858.690	1.0	203162.480	0.0
1884.9331	18.01	-1.48	196305.040	3.5	201608.820	3.5
1884.9473	27.00	-4.56	47612.180	1.5	52915.920	.5
1884.9615	28.01	-3.73	128958.370	3.5	134262.070	3.5
1884.9615	28.01	-3.06	130324.710	4.5	135628.410	4.5
1885.0468	20.01	.93	72730.930	2.5	78034.390	3.5
1885.0468	20.01	-.37	72730.930	2.5	78034.390	2.5
1885.1072	29.01	-.90	146069.010	6.0	151372.300	5.0
1885.2068	6.01	-2.57	179073.050	3.5	184376.060	3.5
1885.2068	6.01	-1.03	179073.050	4.5	184376.060	3.5
1885.2068	6.01	-1.14	179073.050	3.5	184376.060	2.5
1885.3312	18.00	-1.38	119566.110	3.0	124868.770	3.0
1885.3312	18.00	-.57	119566.110	3.0	124868.770	4.0
1885.4020	28.00	-2.90	44475.158	2.0	49777.619	3.0
1885.4414	29.01	-2.77	146072.950	2.0	151375.300	2.0
1885.4414	29.01	-1.35	146072.950	3.0	151375.300	2.0
1885.5730	28.01	-3.35	128950.870	3.5	134252.850	3.5
1885.6694	26.00	-1.00	32873.623	4.0	38175.332	3.0
1885.6868	28.01	-1.59	130320.940	3.5	135622.600	3.5
1885.6868	25.00	-4.49	57485.970	2.5	62787.630	1.5
1886.0141	27.00	-4.95	46260.020	1.5	51560.760	2.5
1886.0355	28.01	-2.85	128966.520	5.5	134267.200	6.5
1886.1208	7.01	-3.55	221342.810	3.0	226643.250	4.0
1886.1600	29.01	.05	133727.870	2.0	139028.200	2.0
1886.1885	7.01	-2.06	221343.000	4.0	226643.250	4.0
1886.2739	8.01	-3.52	240516.280	1.5	245816.290	1.5
1886.2774	21.00	-4.72	31215.760	2.5	36515.760	1.5
1886.3166	18.01	-2.71	213860.510	3.5	219160.400	2.5
1886.4269	18.00	-1.98	119760.220	1.0	125059.800	2.0
1886.4447	22.00	-4.99	41895.150	5.0	47194.680	4.0
1886.4767	18.01	-2.71	208591.780	1.5	213891.220	1.5
1886.5309	14.00	-2.49	57798.072	2.0	63097.360	1.0
1886.5444	28.01	-2.54	116261.810	.5	121561.060	.5
1886.5942	18.01	-2.01	208592.110	.5	213891.220	1.5
1886.5978	10.01	-2.72	302475.610	.5	307774.710	1.5
1886.6583	18.00	-2.19	119566.110	3.0	124865.040	3.0
1886.6939	24.00	-4.79	49519.720	3.0	54818.550	2.0
1886.7146	7.00	-1.48	107628.283	1.5	112927.055	1.5
1886.8100	22.00	-5.49	11776.806	4.0	17075.310	4.0
1886.8122	26.00	-4.52	51294.262	3.0	56592.760	4.0
1886.8221	25.00	-3.23	45060.810	3.5	50359.280	3.5
1886.8862	28.01	-4.94	115827.120	3.5	121125.410	4.5
1886.9539	7.01	-4.80	221380.300	3.0	226678.400	2.0
1886.9610	24.00	-3.14	24286.540	1.0	29584.620	2.0
1886.9649	28.00	-3.22	45418.858	2.0	50716.927	1.0
1887.0287	28.01	-1.70	130324.710	4.5	135622.600	3.5
1887.0501	18.01	-3.35	199679.760	2.5	204977.590	2.5
1887.1035	28.01	-3.63	128958.370	3.5	134256.050	2.5
1887.1285	10.01	-1.13	302839.280	2.5	308136.890	1.5
1887.1320	15.00	-3.79	70391.600	2.5	75689.200	1.5
1887.1747	21.00	-4.31	31275.320	3.5	36572.800	2.5
1887.1890	28.01	-1.40	128964.630	4.5	134262.070	3.5
1887.1925	14.00	-1.75	57372.297	2.0	62669.727	2.0
1887.1996	7.01	-2.17	221342.810	3.0	226640.220	3.0
1887.2602	22.00	.30	39526.890	2.0	44824.130	2.0
1887.2673	7.01	-3.45	221343.000	4.0	226640.220	3.0
1887.2923	7.00	-4.45	110544.850	2.5	115842.000	1.5
1887.2959	28.01	-1.43	130320.940	3.5	135618.080	2.5
1887.3743	28.01	-4.21	110573.360	2.5	115870.280	2.5
1887.3932	14.00	-.78	57372.297	2.0	62669.164	3.0
1887.4384	27.00	-2.72	45971.190	3.5	51267.930	4.5
1887.4598	6.00	-3.00	83497.620	2.0	88794.300	2.0
1887.6105	26.00	-2.05	48928.423	2.0	54224.680	1.0
1887.7716	18.00	-1.48	117183.654	2.0	122479.459	1.0
1887.8034	22.00	-4.93	37852.434	4.0	43148.150	3.0
1887.8127	7.01	-2.14	221380.300	3.0	226675.990	3.0
1887.8625	28.01	-3.64	128966.520	4.5	134262.070	3.5
1887.8711	14.00	-.91	57372.297	2.0	62667.823	3.0
1887.9381	14.00	-2.65	57798.072	2.0	63093.410	2.0
1888.0693	28.01	-.84	130311.330	7.5	135606.300	6.5
1888.1706	26.00	-3.53	46410.366	1.0	51705.052	2.0
1888.2263	18.00	-1.94	119566.110	3.0	124860.640	4.0
1888.2305	22.00	-4.81	14028.470	2.0	19322.988	2.0
1888.2441	28.01	-1.50	128958.370	3.5	134252.850	3.5
1888.3304	26.00	-2.11	45509.112	1.0	50803.350	2.0
1888.3332	28.01	-1.63	131222.970	1.5	136517.200	.5
1888.3561	26.00	-3.45	45333.834	2.0	50628.000	3.0
1888.5437	22.01	-4.53	65312.710	2.5	70606.350	2.5
1888.5901	22.00	-3.59	41988.390	3.0	47281.900	3.0
1888.6435	20.01	-2.56	78164.720	3.5	83458.080	3.5
1888.6435	20.01	-1.01	78164.720	4.5	83458.080	3.5
1888.6435	20.01	-1.12	78164.720	3.5	83458.080	2.5
1888.6614	18.01	-2.81	196315.510	2.5	201608.820	3.5
1888.6650	29.01	-3.26	133826.200	2.0	139119.500	3.0
1888.6721	26.00	-4.28	48475.740	3.0	53769.020	4.0
1888.6899	6.00	-2.28	83497.620	2.0	88790.850	1.0
1888.8220	27.00	-3.03	43425.710	2.5	48718.570	2.5
1888.8470	28.01	-3.50	130313.510	5.5	135606.300	6.5
1888.8827	28.01	-1.89	130313.510	5.5	135606.200	5.5
1889.0254	28.01	-2.57	128946.150	7.5	134238.440	6.5
1889.0933	29.01	-4.20	141204.100	3.0	146496.200	3.0
1889.2575	28.01	-1.65	114874.880	2.5	120166.520	1.5
1889.2789	28.01	-4.51	95017.710	4.5	100309.290	5.5
1889.3592	20.00	-2.55	42514.845	0.0	47806.200	1.0
1889.3649	7.00	-2.25	107445.622	1.5	112736.961	1.5
1889.3753	18.00	-2.80	119566.110	3.0	124857.420	2.0
1889.4046	28.00	-2.23	44112.192	1.0	49403.420	1.0
1889.4360	28.01	-3.47	131233.280	3.5	136524.420	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1889.4503	28.01	-4.00	131233.320	4.5	136524.420	4.5
1889.5181	28.01	-3.03	111783.790	3.5	117074.700	3.5
1889.6217	25.00	-3.35	52015.000	3.5	57305.620	3.5
1889.6431	28.01	-2.89	128960.740	6.5	134251.300	7.5
1889.6517	26.00	-3.07	46313.610	2.0	51604.146	3.0
1889.7111	18.01	-.75	194861.270	2.5	200151.640	1.5
1889.7617	12.00	-.46	47844.414	1.0	53134.642	2.0
1889.9682	28.01	-.90	131218.550	6.5	136508.200	5.5
1889.9789	24.00	-2.27	35640.690	0.0	40930.310	1.0
1890.0940	26.00	-4.21	31686.342	2.0	36975.640	3.0
1890.1004	27.00	-3.69	46872.740	3.5	52162.020	3.5
1890.2999	18.00	-1.87	117151.387	1.0	122440.109	2.0
1890.3578	28.01	-2.29	116167.760	1.5	121456.320	1.5
1890.4868	17.00	-.95	96930.181	.5	102218.380	1.5
1890.5079	29.01	-3.79	108014.660	3.0	113302.800	4.0
1890.5758	24.00	-2.82	35618.510	1.0	40906.460	1.0
1890.6388	17.00	-2.77	96945.536	2.5	102233.310	2.5
1890.6545	29.01	-3.69	148167.770	3.0	153455.500	4.0
1890.6581	26.02	-3.99	199804.810	4.0	205092.530	4.0
1890.7396	20.00	-2.55	42518.708	1.0	47806.200	1.0
1890.8047	25.00	-3.27	58136.690	3.5	63424.000	3.5
1890.8340	14.00	-4.78	59110.892	2.0	64398.120	2.0
1890.8369	28.01	.85	116833.150	4.5	122120.370	5.5
1890.9763	18.01	-1.04	213873.570	3.5	219160.400	2.5
1891.0407	10.01	-2.26	302890.570	2.5	308177.220	1.5
1891.0586	18.01	-3.91	213873.800	2.5	219160.400	2.5
1891.1123	18.01	.09	201345.220	1.5	206631.670	2.5
1891.1480	27.00	-4.57	45766.630	3.5	51052.980	3.5
1891.1552	28.01	-1.26	128966.520	4.5	134252.850	3.5
1891.2124	28.01	-2.94	112686.300	2.5	117972.470	3.5
1891.4436	14.00	-.64	49028.294	0.0	54313.818	1.0
1891.4772	22.00	-4.95	11531.760	2.0	16817.190	1.0
1891.6271	14.00	-3.15	48102.323	2.0	53387.334	1.0
1891.6776	18.01	-3.79	205250.030	3.5	210534.900	4.5
1891.7278	24.00	-2.72	24299.890	2.0	29584.620	2.0
1891.7457	27.00	-4.36	50105.050	1.5	55389.730	1.5
1891.7492	7.00	.24	105119.850	1.5	110404.520	2.5
1891.7564	27.00	-3.34	27497.060	2.5	32781.710	2.5
1891.7671	7.00	-2.02	105119.850	1.5	110404.470	1.5
1891.7886	28.01	-3.14	130321.740	5.5	135606.300	6.5
1891.8244	28.01	-3.32	130321.740	5.5	135606.200	5.5
1891.8638	6.00	-1.91	81105.030	1.0	86389.380	2.0
1891.8781	28.01	-4.89	122047.290	3.5	127331.600	2.5
1891.8896	22.00	-3.54	20209.444	2.0	25493.722	2.0
1891.9819	18.01	-4.52	205300.860	1.5	210584.880	1.5
1892.0321	18.01	-1.77	205301.000	2.5	210584.880	1.5
1892.0894	27.00	-3.54	46872.740	3.5	52156.460	4.5
1892.1073	17.00	-1.40	94482.236	2.5	99765.906	2.5
1892.1753	12.00	-.93	47851.162	2.0	53134.642	2.0
1892.1861	27.00	-3.93	45876.580	2.5	51160.030	2.5
1892.2040	13.01	-1.91	142849.200	4.0	148132.600	3.0
1892.2040	13.01	-2.64	142849.200	4.0	148132.600	3.0
1892.2040	13.01	-3.72	142849.200	3.0	148132.600	3.0
1892.4386	18.00	-2.38	116999.389	2.0	122282.134	2.0
1892.5497	20.00	-.30	38192.392	1.0	43474.827	2.0
1892.5812	7.00	-1.22	107628.283	1.5	112910.630	2.5
1892.5873	29.01	-3.59	148167.770	4.0	153450.100	5.0
1892.6590	6.00	.58	78731.270	1.0	84013.400	2.0
1892.6983	18.01	-1.75	208591.780	1.5	213873.800	2.5
1892.7768	7.00	-4.02	107588.469	.5	112870.270	.5
1892.7951	22.00	.42	39640.980	3.0	44922.730	3.0
1892.8883	28.01	-3.20	130324.710	4.5	135606.200	5.5
1892.9062	28.01	-4.50	116893.980	2.5	122175.420	2.5
1892.9284	16.00	.45	64891.632	2.0	70173.010	3.0
1893.1381	7.00	-2.61	107628.283	1.5	112909.076	1.5
1893.1786	24.00	-2.79	24303.940	3.0	29584.620	2.0
1893.2073	9.01	-.74	264456.190	2.0	269736.790	1.0
1893.2467	25.00	-4.07	45060.810	3.5	50341.300	4.5
1893.2503	18.01	.05	203918.150	1.5	209198.630	2.5
1893.2826	29.01	-1.74	115639.020	2.0	120919.410	1.0
1893.3289	7.00	-5.00	110710.739	2.5	115991.000	2.5
1893.3795	18.01	-1.02	201351.550	2.5	206631.670	2.5
1893.4755	26.00	-4.38	26406.490	1.0	31686.342	2.0
1893.5300	9.01	-1.47	264456.190	2.0	269735.890	2.0
1893.5300	9.01	-.57	264456.190	3.0	269735.890	2.0
1893.5627	20.00	-1.86	42526.591	2.0	47806.200	1.0
1893.5659	28.01	.25	100309.290	5.5	105588.890	4.5
1893.6448	18.00	-3.11	119760.220	1.0	125039.600	1.0
1893.6592	17.00	-1.78	96313.330	1.5	101592.670	.5
1893.6627	27.00	-3.85	49197.740	4.5	54477.070	3.5
1893.6843	7.01	-3.31	221363.980	5.0	226643.250	4.0
1893.6878	28.01	-.34	100389.520	2.5	105668.780	2.5
1893.6950	18.01	-1.11	202467.140	1.5	207746.380	2.5
1893.7094	15.00	-2.30	76021.600	1.5	81300.800	1.5
1893.7560	23.00	-4.52	32724.860	.5	38003.930	1.5
1893.8618	17.00	-.20	95897.565	1.5	101176.340	2.5
1893.8672	15.00	-.81	67971.140	.5	73249.900	1.5
1893.9964	22.00	-3.11	42184.660	4.0	47463.060	4.0
1894.0933	25.01	-4.87	62587.500	3.0	67865.630	4.0
1894.2117	26.00	-2.20	40231.312	2.0	45509.112	1.0
1894.2332	9.01	-.41	264455.960	4.0	269733.700	3.0
1894.2476	28.01	-3.11	128960.740	5.5	134238.440	6.5
1894.2476	28.01	-3.60	128960.740	6.5	134238.440	6.5
1894.2691	8.01	-3.99	248514.230	1.5	253791.870	1.5
1894.2906	18.01	-3.79	194861.270	2.5	200138.850	3.5
1894.3158	9.01	-3.02	264456.190	2.0	269733.700	3.0
1894.3158	9.01	-1.47	264456.190	3.0	269733.700	3.0
1894.4188	16.00	.18	64888.014	1.0	70165.237	2.0
1894.4379	18.01	-2.18	205249.930	2.5	210527.100	2.5
1894.4738	18.01	-1.40	205250.030	3.5	210527.100	2.5
1894.5548	17.00	-2.89	96945.536	2.5	102222.380	3.5
1894.6066	28.01	-4.30	115870.280	2.5	121146.980	2.5
1894.6137	26.02	-3.29	200395.330	5.0	205672.010	4.0
1894.7861	29.01	-2.14	148179.300	4.0	153455.500	4.0
1894.7861	29.01	-3.78	148179.300	5.0	153455.500	4.0
1894.9596	7.00	-2.86	107628.283	1.5	112904.000	.5
1894.9707	16.00	-.29	64888.014	1.0	70163.700	1.0
1894.9908	27.00	-4.23	45766.630	3.5	51042.260	2.5
1895.0149	17.00	-1.80	95313.749	1.5	100589.312	2.5
1895.0278	26.00	-4.70	45428.385	4.0	50703.912	5.0
1895.0878	25.00	-3.91	57485.970	2.5	62761.330	2.5
1895.1597	18.01	-2.75	196076.390	1.5	201351.550	2.5
1895.1992	22.00	-3.96	41255.400	4.0	46530.450	4.0
1895.2603	28.01	-3.42	131233.320	4.5	136508.200	5.5
1895.3141	18.00	-2.52	119847.810	1.0	125122.540	0.0
1895.3688	13.00	-4.91	41319.372	2.5	46593.950	2.5
1895.3716	13.00	-3.61	41319.380	3.5	46593.950	2.5
1895.4399	29.01	-3.73	146103.420	5.0	151377.800	6.0
1895.4399	29.01	-1.84	146103.420	6.0	151377.800	6.0
1895.4457	26.00	-4.92	49850.610	3.0	55124.974	3.0
1895.4687	13.01	-.89	144638.900	2.0	149913.200	2.0
1895.4687	13.01	-.16	144638.900	1.0	149913.200	2.0
1895.4687	13.01	-.36	144638.900	2.0	149913.200	3.0
1895.4687	13.01	-2.43	144638.900	3.0	149913.200	2.0
1895.4687	13.01	-1.26	144638.900	3.0	149913.200	3.0
1895.4687	13.01	.17	144638.900	3.0	149913.200	4.0
1895.5952	13.00	-3.76	41319.372	2.5	46593.320	1.5
1895.7185	16.00	-.29	64891.632	2.0	70165.237	2.0
1895.8030	27.00	-2.85	41101.800	.5	46375.170	1.5
1895.8411	16.00	-.17	64890.436	0.0	70163.700	1.0
1895.8742	17.00	-1.85	94973.683	.5	100246.855	1.5
1895.9884	18.00	-2.40	116660.054	1.0	121932.908	1.0
1895.9920	17.00	-4.76	96945.536	2.5	102218.380	1.5
1896.0938	14.00	-3.00	58311.659	0.0	63584.220	1.0
1896.1949	15.00	-2.63	67113.820	2.5	72386.100	2.5
1896.2057	18.01	.15	201351.550	2.5	206623.800	3.5
1896.2712	16.00	-1.47	64891.632	2.0	70163.700	1.0
1896.3244	28.01	-3.38	128966.520	5.5	134238.440	6.5
1896.3387	18.01	-1.11	206397.300	3.5	211669.180	2.5
1896.3650	26.00	-4.17	48475.740	3.0	53747.547	3.0
1896.3711	14.00	-.39	59032.140	2.0	64303.930	3.0
1896.4107	22.00	-1.40	36065.750	3.0	41337.430	2.0
1896.5323	14.00	-2.13	57541.918	1.0	62813.260	1.0
1896.5366	18.01	-2.52	199679.760	2.5	204951.090	3.5
1896.7266	26.00	-3.56	48122.913	3.0	53393.715	4.0
1896.7273	29.01	-2.05	148179.300	5.0	153450.100	5.0
1896.7273	29.01	-3.78	148179.300	4.0	153450.100	5.0
1896.7345	23.00	-3.18	34128.040	3.5	39398.820	3.5
1896.8461	29.01	-3.16	146107.330	5.0	151377.800	6.0
1896.8713	12.01	-1.17	109062.340	2.5	114332.740	1.5
1896.8929	12.01	-1.01	109062.340	3.5	114332.680	2.5
1896.8929	12.01	-2.32	109062.340	2.5	114332.680	2.5
1897.0149	20.00	-.13	38219.118	2.0	43489.119	3.0
1897.0164	26.00	-4.44	45833.240	4.0	51103.237	5.0
1897.0380	20.00	-1.76	42919.053	2.0	48188.990	3.0
1897.1387	17.00	-1.20	82918.893	2.5	88188.550	1.5
1897.1398	37.00	-2.28	25700.536	0.0	30971.629	0.0
1897.1592	18.01	-3.65	206336.870	2.5	211606.470	3.5
1897.2025	18.01	.04	195123.540	5.5	200393.020	4.5
1897.2061	18.01	-2.35	206337.000	3.5	211606.470	3.5
1897.2457	6.00	-3.46	83497.620	2.0	88766.980	1.0
1897.3105	29.01	-1.26	117747.450	3.0	123016.630	3.0
1897.3105	18.01	-2.76	213891.220	1.5	219160.400	2.5
1897.3393	15.00	.69	72386.100	2.5	77655.200	3.5
1897.3861	18.01	-1.41	213891.430	2.5	219160.400	2.5
1897.4185	29.01	-3.73	146103.420	6.0	151372.300	5.0
1897.4185	29.01	-1.92	146103.420	5.0	151372.300	5.0
1897.4365	18.01	-1.42	196076.390	1.5	201345.220	1.5
1897.5734	27.00	-2.94	46746.000	2.5	52014.450	1.5
1897.5842	18.01	-.65	200880.520	3.5	206148.940	3.5
1897.6598	28.01	-1.09	100592.980	3.5	105861.190	2.5
1897.6807	7.00	-1.96	111198.848	.5	116467.000	1.5
1897.6807	7.00	-1.66	111198.848	.5	116467.000	.5
1897.7211	28.01	-4.31	128799.720	.5	134067.760	1.5
1897.9578	10.00	-3.55	163657.268	1.0	168924.651	2.0
1898.2068	37.00	-1.33	25703.498	0.0	30971.628	0.0
1898.2655	17.00	-3.57	97259.811	1.5	102526.340	2.5
1898.3517	25.00	-4.97	57487.080	2.5	62753.370	2.5
1898.3805	18.01	-1.20	206397.290	4.5	211663.500	3.5
1898.3841	18.01	-3.66	206397.300	3.5	211663.500	3.5
1898.5319	23.00	-1.77	32738.140	1.5	38003.930	1.5
1898.5391	24.00	-2.84	35640.690	0.0	40906.460	1.0
1898.5438	10.00	-4.23	167591.233	2.0	172856.990	1.0
1898.5463	18.01	-1.99	205212.020	4.5	210477.770	3.5
1898.6112	14.00	-3.66	59118.030	3.0	64383.600	4.0
1898.6293	6.00	-2.67	84116.090	1.0	89381.610	0.0
1898.6437	7.00	-1.65	105119.850	1.5	110385.330	2.5
1898.7014	23.00	-2.63	33976.020	1.5	39241.340	2.5
1898.7054	26.00	-1.17	33412.706	3.0	38678.015	2.0
1898.7339	14.00	-1.32	59032.140	2.0	64297.370	3.0
1898.8276	29.01	-4.97	146107.330	5.0	151372.300	5.0
1898.8276	29.01	-3.24	146107.330	4.0	151372.300	5.0
1898.8709	28.01	-.51	116191.470	2.5	121456.320	1.5
1898.9069	18.01	-1.67	195128.270	4.5	200393.020	4.5
1898.9134	14.00	-2.11	57541.918	1.0	62806.650	0.0
1898.9683	18.01	.30	202429.840	3.5	207694.420	3.5
1898.9719	6.00	-1.43	81105.030	1.0	86369.600	2.0
1899.0801	25.00	-3.93	58159.730	2.5	63424.000	3.5
1899.1425	26.00	-4.95	48304.623	2.0	53568.720	2.0
1899.2858	28.01	-4.49	131063.850	.5	136327.550	1.5
1899.3940	28.01	-2.53	114052.040	3.5	119315.440	2.5
1899.3962	5.00	.62	54767.633	1.5	60031.027	2.5
1899.4193	28.01	.19	101357.200	4.5	106620.530	3.5
1899.4579	5.00	.77	54767.804	2.5	60031.027	3.5
1899.4579	5.00	-.53	54767.804	2.5	60031.027	2.5
1899.5167	18.01	-2.23	205214.710	3.5	210477.770	3.5
1899.5167	18.01	-1.03	205214.710	4.5	210477.770	3.5
1899.5204	18.01	-1.90	205249.930	2.5	210512.980	1.5
1899.5565	7.01	-3.55	221380.300	3.0	226643.250	4.0
1899.7116	25.00	-2.77	51305.410	2.5	56567.930	1.5
1899.9716	23.00	-2.33	15770.720	4.5	21032.520	3.5
1900.0149	18.01	-1.98	196089.870	2.5	201351.550	2.5
1900.1485	18.01	-.93	205273.590	5.5	210534.900	4.5
1900.2352	28.01	-4.16	114942.420	1.5	120203.490	2.5
1900.3183	7.00	-1.17	105143.680	2.5	110404.520	2.5
1900.3364	7.00	-2.88	105143.680	2.5	110404.470	1.5
1900.4592	28.01	-2.96	95332.530	2.5	100592.980	3.5
1900.4845	27.00	-3.42	48443.760	2.5	53704.140	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1900.6507	7.01	-4.82	221380.300	3.0	226640.220	3.0
1900.6518	14.00	-2.47	48102.323	2.0	53362.240	3.0
1900.6904	28.01	-4.34	131928.770	4.5	137188.580	4.5
1900.7482	27.00	-4.06	45924.980	3.5	51184.630	3.5
1900.7547	10.00	-3.32	163707.721	1.0	168967.353	1.0
1900.7735	23.00	-1.66	32846.740	2.5	38106.320	2.5
1900.7735	23.00	-2.67	32846.740	2.5	38106.320	2.5
1900.8711	28.01	-4.88	130320.940	3.5	135580.250	4.5
1901.0721	10.00	-4.26	163708.599	2.0	168967.353	1.0
1901.0768	28.00	-.66	45418.858	2.0	50677.599	3.0
1901.1313	18.01	-1.19	206347.880	4.5	211606.470	3.5
1901.1603	28.01	-3.76	130321.740	5.5	135580.250	4.5
1901.1747	7.00	.14	105143.680	2.5	110402.150	3.5
1901.2095	37.00	-1.59	25700.536	0.0	30960.346	0.0
1901.2109	27.00	-2.65	48443.760	2.5	53702.130	3.5
1901.2662	14.00	-2.52	59037.043	4.0	64295.260	3.0
1901.3049	18.01	-2.68	205273.590	5.5	210531.700	5.5
1901.3086	18.01	-.80	205273.600	6.5	210531.700	5.5
1901.4929	18.01	-1.07	206819.310	3.5	212076.900	2.5
1901.5291	6.00	-2.25	81105.030	1.0	86362.520	1.0
1901.5943	27.00	-2.99	49025.420	1.5	54282.730	2.5
1901.7165	10.00	-2.35	166656.508	1.0	171913.480	0.0
1901.7787	28.01	-2.21	100332.090	4.5	105588.890	4.5
1901.7932	28.01	-3.55	114942.420	1.5	120199.180	1.5
1901.8583	23.00	-2.58	15571.900	2.5	20828.480	2.5
1901.8728	21.00	-1.76	33615.060	1.5	38871.600	2.5
1901.9035	18.00	-1.01	117183.654	2.0	122440.109	2.0
1901.9090	18.01	-3.66	206337.000	3.5	211593.440	4.5
1901.9198	23.00	-4.17	36989.200	2.5	42245.610	3.5
1902.0320	28.01	-4.80	116824.150	2.5	122080.250	2.5
1902.1225	18.01	-4.08	194883.000	3.5	200138.850	3.5
1902.1695	25.00	-3.35	51100.490	4.5	56356.210	3.5
1902.1736	20.00	-1.05	38219.118	2.0	43474.827	2.0
1902.2227	17.00	-2.51	85917.937	.5	91173.510	1.5
1902.3034	18.01	-.68	196089.870	2.5	201345.220	1.5
1902.3759	27.00	-2.25	42269.320	4.5	47524.470	4.5
1902.4772	22.00	.57	39785.940	4.0	45040.810	4.0
1902.4906	22.00	-3.87	20062.980	1.0	25317.813	1.0
1902.6510	28.01	-4.50	101366.140	2.5	106620.530	3.5
1902.7108	37.00	-.99	23792.591	0.0	29048.250	0.0
1902.7506	26.00	-4.06	45964.944	2.0	51219.059	3.0
1902.7886	29.01	-.64	115665.400	1.0	120919.410	1.0
1902.8792	28.01	-3.89	110573.360	2.5	115827.120	3.5
1902.8904	7.00	-1.96	111213.271	1.5	116467.000	.5
1902.8904	7.00	-1.26	111213.271	1.5	116467.000	1.5
1902.9226	23.00	-1.76	32988.820	3.5	38242.460	3.5
1903.0759	14.00	-.56	49060.601	1.0	54313.818	1.0
1903.2012	22.00	-4.68	28952.100	4.0	34204.971	4.0
1903.2559	28.01	-1.93	112719.750	3.5	117972.470	3.5
1903.2632	28.01	-4.13	114970.190	.5	120222.890	1.5
1903.2925	26.00	-3.37	45281.816	2.0	50534.435	3.0
1903.3392	18.01	-2.50	206819.310	3.5	212071.800	3.5
1903.3429	18.01	-.96	206819.320	4.5	212071.800	3.5
1903.3538	22.00	-4.44	37359.130	2.0	42611.580	1.0
1903.4444	10.01	-.69	302057.260	.5	307309.460	.5
1903.4661	18.01	.70	200880.520	3.5	206132.660	4.5
1903.4879	23.02	-4.91	156671.200	2.5	161923.280	2.5
1903.5495	21.00	-1.60	33707.250	2.5	38959.160	3.5
1903.5894	15.00	-2.46	69852.800	.5	75104.600	.5
1903.6002	28.01	-3.83	131075.780	1.5	136327.550	1.5
1903.6821	17.00	-2.00	96594.096	.5	101845.640	1.5
1903.6908	8.01	-4.33	240516.280	1.5	245767.800	.5
1903.7525	28.01	-.23	122080.250	2.5	127331.600	2.5
1903.8449	7.00	-3.08	111060.905	.5	116312.000	.5
1903.8449	7.00	-3.38	111060.905	.5	116312.000	1.5
1903.8757	28.01	-4.40	116893.980	2.5	122144.990	2.5
1903.9482	27.00	-2.57	48443.760	2.5	53694.570	3.5
1904.0534	14.01	-.36	119245.480	.5	124496.000	1.5
1904.1549	6.00	-4.45	83919.760	2.0	89170.000	1.0
1904.2420	18.01	-1.51	205214.710	3.5	210464.710	2.5
1904.4049	7.00	-2.07	107588.469	.5	112838.020	1.5
1904.5177	18.01	-2.05	206336.870	2.5	211586.110	2.5
1904.5649	18.01	-1.15	206337.000	3.5	211586.110	2.5
1904.5685	15.00	-.23	72884.400	2.5	78133.500	2.5
1904.6179	20.00	.03	38259.124	3.0	43508.088	4.0
1904.7064	28.01	-1.86	116312.340	1.5	121561.060	.5
1904.7971	27.00	-4.39	46872.740	3.5	52121.210	4.5
1904.8225	26.00	-4.81	49242.680	2.0	54491.080	3.0
1905.3308	6.00	-3.34	84103.100	2.0	89350.100	2.0
1905.5711	7.00	-2.26	107445.622	1.5	112691.960	.5
1905.5777	10.01	.20	302890.570	2.5	308136.890	1.5
1905.7012	18.01	-.55	184191.710	.5	189437.690	.5
1905.8357	18.01	-.88	206347.830	5.5	211593.440	4.5
1905.8539	18.01	-3.18	206347.880	4.5	211593.440	4.5
1905.8647	28.01	-4.18	128822.230	1.5	134067.760	1.5
1905.9519	28.01	-4.18	130313.510	5.5	135558.800	4.5
1906.0282	28.01	-.62	100592.980	3.5	105838.060	3.5
1906.0424	10.00	-1.43	166967.669	0.0	172212.710	1.0
1906.0500	28.01	-1.60	122086.580	3.5	127331.600	2.5
1906.2136	9.02	-3.52	384493.060	1.5	389737.630	.5
1906.3000	2.00	-1.26	191217.000	0.0	196462.764	0.0
1906.3080	17.00	-1.75	91069.020	.5	96313.330	1.5
1906.3862	7.00	-3.46	111060.905	.5	116305.000	.5
1906.3862	7.00	-2.94	111060.905	.5	116305.000	1.5
1906.4535	14.01	-1.26	119578.490	3.5	124822.400	2.5
1906.4753	14.01	-1.15	119578.490	4.5	124822.340	3.5
1906.4753	14.01	-2.70	119578.490	3.5	124822.340	3.5
1906.5990	18.01	-.28	183797.360	2.5	189040.870	1.5
1906.6971	18.01	-4.59	205221.470	1.5	210464.710	2.5
1906.7007	26.00	-3.74	54683.390	4.0	59926.620	5.0
1906.9481	6.00	-4.29	83919.650	3.0	89162.200	2.0
1906.9838	17.00	-4.37	94468.857	.5	99711.309	.5
1906.9881	6.00	-5.00	83919.760	2.0	89162.200	2.0
1907.0390	28.01	.26	121437.680	5.5	126679.980	4.5
1907.1299	18.01	-4.18	203007.690	1.5	208249.740	1.5
1907.1529	7.00	-4.35	107628.283	1.5	112870.270	.5
1907.1878	14.00	-4.71	59109.959	3.0	64351.850	3.0
1907.2322	26.00	-3.72	45726.104	5.0	50967.873	6.0
1907.2755	7.00	-2.30	105143.680	2.5	110385.330	2.5
1907.2755	7.00	-.66	105143.680	2.5	110385.330	3.5
1907.3053	28.00	-1.63	47030.148	3.0	52271.716	2.0
1907.3155	24.00	-3.09	37883.340	2.0	43124.880	2.0
1907.5273	14.00	-4.74	59110.892	2.0	64351.850	3.0
1907.7923	23.01	-2.84	44657.990	2.0	49898.220	2.0
1907.7959	9.02	-.07	453152.390	2.5	458392.610	1.5
1907.9380	18.01	-2.07	200880.520	3.5	206120.350	2.5
1907.9540	26.00	-4.08	55124.974	3.0	60364.760	3.0
1908.0399	25.01	-4.96	62572.200	2.0	67811.750	3.0
1908.0669	17.00	-3.43	95706.534	1.5	100946.010	.5
1908.2016	20.00	-2.23	42526.591	2.0	47765.697	3.0
1908.3848	26.00	-4.94	48036.667	2.0	53275.270	2.0
1908.3940	20.00	-2.85	42518.708	1.0	47757.286	2.0
1908.4333	7.01	-.48	221246.170	1.0	226484.640	2.0
1908.4697	18.01	-4.12	194996.490	1.5	200234.860	2.5
1908.6738	20.00	-2.54	42514.845	0.0	47752.655	1.0
1908.6923	28.00	-2.84	43933.428	2.0	49171.187	1.0
1908.8122	28.01	-3.71	115956.710	2.5	121194.140	2.5
1908.8344	10.00	-1.57	166975.341	1.0	172212.710	1.0
1908.8344	10.00	-1.09	166975.341	1.0	172212.710	2.0
1908.9400	2.00	.29	186210.000	0.0	191448.509	0.0
1909.0309	29.01	-3.50	115639.020	2.0	120875.850	2.0
1909.0893	7.00	-4.80	110385.330	3.5	115622.000	2.5
1909.0966	23.00	-4.91	20767.570	3.5	26004.220	2.5
1909.2143	22.00	-3.86	37622.573	3.0	42858.900	3.0
1909.3153	23.00	-4.22	32767.880	1.5	38003.930	1.5
1909.3153	6.00	-4.74	83919.650	3.0	89155.700	3.0
1909.3299	27.00	-3.50	27497.060	2.5	32733.070	3.5
1909.3336	6.00	-4.88	83926.200	3.0	89162.200	2.0
1909.3343	10.00	-2.36	165912.782	1.0	171148.780	0.0
1909.4185	7.00	-1.26	107445.622	1.5	112681.389	2.5
1909.4758	28.01	-3.02	115956.710	2.5	121192.320	3.5
1909.5028	26.00	-4.30	29320.050	1.0	34555.586	0.0
1909.5524	18.01	-1.25	206336.870	2.5	211572.270	1.5
1909.5524	14.02	-4.69	243868.500	3.0	249103.900	2.0
1909.5575	22.00	-5.02	11639.804	3.0	16875.190	2.0
1909.5670	28.01	-4.99	109846.000	3.5	115081.360	4.5
1909.6800	27.00	-3.50	45924.980	3.5	51160.030	2.5
1909.7019	27.00	-3.94	47225.110	3.5	52460.100	2.5
1909.7019	18.01	-1.11	205212.020	4.5	210447.010	3.5
1909.9099	18.01	-.74	199959.620	2.5	205194.040	1.5
1910.0303	28.01	-4.68	130324.710	4.5	135558.800	4.5
1910.0595	6.00	-3.44	84116.090	1.0	89350.100	2.0
1910.0825	20.00	-3.14	42518.708	1.0	47752.655	1.0
1910.3077	27.00	-3.20	49025.420	1.5	54258.750	2.5
1910.3843	18.01	-3.44	150474.900	1.5	155708.020	.5
1910.4281	15.01	-.81	124433.100	1.0	129666.100	2.0
1910.5998	18.01	-.36	196119.020	3.5	201351.550	2.5
1910.6837	18.01	-1.89	205214.710	3.5	210447.010	3.5
1910.6837	18.01	-2.09	205214.710	4.5	210447.010	3.5
1910.7768	10.00	-1.81	165828.175	2.0	171060.220	2.0
1910.9759	29.01	-2.78	140984.200	1.0	146215.700	1.0
1911.0183	26.00	-3.11	48531.896	3.0	53763.280	3.0
1911.1111	27.00	-2.19	46329.630	2.5	51560.760	2.5
1911.1586	11.00	-2.48	35040.380	.5	40271.380	.5
1911.1659	23.00	-3.14	34167.840	2.5	39398.820	3.5
1911.2243	28.01	-3.51	128822.230	1.5	134053.050	2.5
1911.2371	18.00	-1.81	118906.665	2.0	124137.450	2.0
1911.2700	20.00	-2.75	42526.591	2.0	47757.286	2.0
1911.2956	18.00	-3.74	118906.665	2.0	124137.290	3.0
1911.3234	26.00	-3.57	47929.981	4.0	53160.530	3.0
1911.3376	28.01	-4.81	116087.380	4.5	121317.890	3.5
1911.3683	26.00	-1.40	33765.291	2.0	38995.717	1.0
1911.5258	20.00	-1.06	38259.124	3.0	43489.119	3.0
1911.6245	10.00	-2.65	165828.175	2.0	171057.900	1.0
1911.6629	24.00	-4.69	35813.730	3.0	41043.350	3.0
1911.6775	24.00	-3.45	49588.970	1.0	54818.550	2.0
1911.7068	6.00	-4.77	83926.200	3.0	89155.700	3.0
1911.8058	17.00	-1.80	97004.081	1.5	102233.310	2.5
1911.8128	7.00	-.89	105119.850	1.5	110349.060	2.5
1911.8238	22.00	-3.29	42052.720	3.0	47281.900	3.0
1911.8457	25.00	-4.42	45130.160	4.5	50359.280	3.5
1911.8621	18.00	-.67	118906.665	2.0	124135.740	3.0
1911.8786	22.00	-3.31	41958.510	2.0	47187.540	2.0
1911.8932	28.01	-4.55	114970.190	.5	120199.180	1.5
1911.8932	9.00	-2.05	130374.860	1.5	135603.850	2.5
1912.0578	14.02	-2.58	204330.790	2.0	209559.330	3.0
1912.0615	11.00	-2.18	35042.850	1.5	40271.380	.5
1912.1126	27.00	-4.49	45971.190	3.5	51199.580	3.5
1912.1440	20.00	-1.72	37298.287	2.0	42526.591	2.0
1912.2150	26.00	-3.76	45294.830	5.0	50522.940	6.0
1912.3138	18.01	-3.61	205249.930	2.5	210477.770	3.5
1912.3504	18.01	-2.20	205250.030	3.5	210477.770	3.5
1912.3573	18.00	-2.06	113643.260	1.0	118870.981	0.0
1912.5113	13.01	-.23	144638.900	2.0	149866.200	3.0
1912.5113	13.01	-1.14	144638.900	3.0	149866.200	3.0
1912.5882	18.00	-4.30	119847.810	1.0	125074.900	2.0
1912.6284	28.01	-4.43	131063.850	.5	136290.830	.5
1912.7122	26.00	-2.87	47834.529	5.0	53061.280	5.0
1912.7309	15.01	-1.77	124947.600	2.0	130174.300	2.0
1912.7638	18.01	-.98	205211.890	5.5	210438.500	4.5
1912.7675	6.00	-1.47	81105.030	1.0	86331.630	1.0
1912.8114	18.01	-1.69	205212.020	4.5	210438.500	4.5
1912.9138	8.03	.16	546803.400	.5	552029.600	1.5
1912.9505	18.01	-2.58	205301.000	2.5	210527.100	2.5
1912.9636	20.00	-3.81	42526.591	2.0	47752.655	1.0
1913.0164	28.01	-4.98	97799.660	1.5	103025.580	2.5
1913.1218	28.00	-2.77	43933.428	2.0	49159.060	2.0
1913.1262	28.01	-4.67	134783.140	2.5	140008.760	3.5
1913.2031	23.02	-3.89	156344.000	1.5	161569.410	1.5
1913.2433	15.00	-4.99	72618.000	.5	77843.300	1.5
1913.2987	26.00	-3.47	47929.981	4.0	53155.130	4.0
1913.3005	26.00	-4.65	45608.341	6.0	50833.485	5.0
1913.3532	18.01	-1.77	199879.320	3.5	205104.320	4.5
1913.4301	18.00	-2.53	119847.810	1.0	125072.600	1.0
1913.5839	28.01	-3.61	131103.180	2.5	136327.550	1.5
1913.5851	10.00	-2.33	166606.333	0.0	171830.700	1.0
1913.6279	6.00	-4.63	83919.650	3.0	89143.900	3.0
1913.6352	29.01	.19	135759.970	2.0	140984.200	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1913.6828	28.01	-1.66	114942.420	1.5	120166.520	1.5
1913.7110	14.00	-3.17	57372.297	2.0	62596.320	2.0
1913.7133	28.00	-3.26	45122.460	1.0	50346.477	2.0
1913.7671	14.01	-.87	117915.060	.5	123138.930	1.5
1913.7744	22.00	-3.94	40844.190	3.0	46068.040	4.0
1913.7964	18.01	-3.05	205214.710	3.5	210438.500	4.5
1913.7964	18.01	-2.54	205214.710	4.5	210438.500	4.5
1913.8880	28.01	-.24	115827.120	3.5	121050.660	2.5
1913.9246	24.00	-4.19	35862.820	4.0	41086.260	3.0
1913.9979	28.01	-1.30	113408.710	1.5	118631.950	.5
1914.0346	28.01	-3.89	116824.150	2.5	122047.290	3.5
1914.1225	6.00	-4.56	83919.760	2.0	89142.660	2.0
1914.1753	26.00	-3.23	42532.729	3.0	47755.485	3.0
1914.2640	26.00	-4.52	49460.876	5.0	54683.390	4.0
1914.3571	27.00	-3.80	46872.740	3.5	52095.000	3.5
1914.3718	23.00	-3.89	34019.120	1.5	39241.340	2.5
1914.3791	23.00	-3.80	34374.810	3.5	39597.010	4.5
1914.4781	14.01	-.11	119274.070	1.5	124496.000	2.5
1914.4781	14.01	-1.06	119274.070	1.5	124496.000	1.5
1914.5074	28.01	-3.20	115956.710	2.5	121178.560	3.5
1915.0135	24.00	-3.05	49598.080	2.0	54818.550	2.0
1915.0282	29.01	.21	115569.200	5.0	120789.630	4.0
1915.0315	20.00	-1.40	37298.287	2.0	42518.708	1.0
1915.1077	17.00	-.64	94314.206	1.5	99534.419	.5
1915.1162	25.00	-3.83	56490.790	2.5	61710.980	3.5
1915.1823	23.00	-4.50	37025.600	3.5	42245.610	3.5
1915.2087	14.00	-2.80	59131.912	4.0	64351.850	3.0
1915.2520	10.01	-.02	303518.210	1.5	308738.030	1.5
1915.2681	14.00	-.75	58801.524	1.0	64021.300	2.0
1915.3107	18.02	-3.50	209127.040	1.0	214346.700	1.0
1915.4208	28.01	-3.67	114970.190	.5	120189.550	.5
1915.4428	29.01	-1.12	141204.100	3.0	146423.400	4.0
1915.4989	14.00	-2.58	57450.580	3.0	62669.727	2.0
1915.5169	7.00	-1.89	107588.469	.5	112807.567	.5
1915.5529	15.01	-4.23	123891.600	2.0	129110.600	1.0
1915.6263	28.01	-.03	100619.260	4.5	105838.060	3.5
1915.6395	28.00	-3.16	49032.589	2.0	54251.353	3.0
1915.7001	14.00	-.54	57450.580	3.0	62669.179	4.0
1915.7056	14.00	-3.11	57450.580	3.0	62669.164	3.0
1915.7732	15.00	-2.52	75905.100	2.5	81123.500	2.5
1915.9053	28.01	-1.00	116167.760	1.5	121385.800	1.5
1915.9824	24.00	-2.83	28679.430	1.0	33897.260	1.0
1916.0118	28.01	-2.00	113225.060	.5	118442.810	1.5
1916.0302	6.00	-4.61	83926.200	3.0	89143.900	3.0
1916.0926	6.00	-3.68	83926.370	4.0	89143.900	3.0
1916.1385	18.00	-2.39	116942.815	3.0	122160.220	3.0
1916.1741	22.00	-5.73	14105.680	3.0	19322.988	2.0
1916.1979	14.00	-1.56	57450.580	3.0	62667.823	3.0
1916.2534	14.00	-4.55	59034.988	3.0	64252.080	2.0
1916.3129	10.00	-2.39	163707.721	1.0	168924.651	2.0
1916.3203	6.00	-1.83	81105.030	1.0	86321.940	0.0
1916.3350	28.01	-4.61	130321.740	5.5	135538.610	5.5
1916.3471	22.00	-1.05	29818.310	3.0	35035.147	2.0
1916.4857	6.00	-3.90	83926.200	3.0	89142.660	2.0
1916.5436	14.00	-2.60	58774.368	3.0	63990.670	2.0
1916.5995	10.01	-1.16	302961.070	1.5	308177.220	1.5
1916.6355	10.00	-2.73	163708.599	2.0	168924.651	2.0
1916.7035	10.00	-2.02	166606.333	0.0	171822.200	1.0
1916.7097	7.00	-4.85	110402.150	3.5	115618.000	2.5
1916.7575	24.00	-4.32	49588.970	1.0	54804.690	1.0
1916.7638	20.00	-2.63	38259.124	3.0	43474.827	2.0
1916.7649	15.00	-3.17	70689.400	3.5	75905.100	2.5
1916.7700	10.00	-3.02	167000.034	4.0	172215.720	3.0
1916.7700	10.00	-1.48	167000.034	4.0	172215.720	4.0
1916.8329	10.00	-2.29	165828.175	2.0	171043.690	2.0
1916.9266	23.00	-2.48	32891.060	3.5	38106.320	2.5
1916.9413	23.00	-4.57	32724.860	.5	37940.080	.5
1916.9416	14.00	-3.53	58775.451	2.0	63990.670	2.0
1916.9928	24.00	-2.83	28682.180	2.0	33897.260	1.0
1917.0038	28.01	-4.15	131075.780	1.5	136290.830	.5
1917.1030	18.01	-2.18	205249.930	2.5	210464.710	2.5
1917.1398	18.01	-1.53	205250.030	3.5	210464.710	2.5
1917.1696	17.00	-2.37	97004.081	1.5	102218.680	2.5
1917.1729	10.00	-1.59	167001.130	3.0	172215.720	3.0
1917.1729	10.00	-3.09	167001.130	3.0	172215.720	4.0
1917.2798	17.00	-2.46	97004.081	1.5	102218.380	1.5
1917.3530	10.01	-.25	301855.710	2.5	307069.810	1.5
1917.4303	28.01	-4.45	128853.870	2.5	134067.760	1.5
1917.5222	18.00	-2.91	119444.880	2.0	124658.520	2.0
1917.5370	8.03	.41	546818.700	1.5	552032.300	2.5
1917.5568	10.00	-2.18	167000.034	4.0	172213.580	4.0
1917.5568	10.00	-.53	167000.034	4.0	172213.580	5.0
1917.5811	27.00	-2.58	42988.120	3.5	48201.600	3.5
1917.5962	17.00	-2.05	85735.091	1.5	90948.530	1.5
1917.6234	26.00	-2.20	46137.140	3.0	51350.505	4.0
1917.7466	17.00	-3.96	94468.857	.5	99681.887	1.5
1917.9011	6.00	-2.04	81105.030	1.0	86317.640	2.0
1917.9162	10.00	-4.39	167639.561	1.0	172852.130	0.0
1917.9188	7.00	-1.71	107588.469	.5	112801.031	1.5
1917.9346	28.00	-3.09	44565.100	3.0	49777.619	3.0
1917.9416	17.01	-3.03	145468.500	1.0	150681.000	2.0
1917.9600	10.00	-.63	167001.130	3.0	172213.580	4.0
1918.0042	25.00	-4.42	57360.780	1.5	62573.110	1.5
1918.0814	18.01	-1.85	205300.860	1.5	210512.980	1.5
1918.0888	18.01	-3.54	199981.940	1.5	205194.040	1.5
1918.1293	18.00	-3.53	119847.810	1.0	125059.800	2.0
1918.1329	18.01	-1.52	205301.000	2.5	210512.980	1.5
1918.2544	25.02	-4.37	115762.600	1.5	120974.250	.5
1918.2728	29.01	-3.40	141204.100	3.0	146415.700	2.0
1918.3832	23.00	-3.01	34030.040	1.5	39241.340	2.5
1918.4200	13.01	-1.77	142360.800	0.0	147572.000	1.0
1918.4421	25.00	-3.09	45130.160	4.5	50341.300	4.5
1918.5305	8.03	-.54	546818.700	1.5	552029.600	1.5
1918.5614	12.00	-2.80	54192.294	2.0	59403.110	1.0
1918.6668	6.00	-4.48	83926.370	4.0	89136.900	4.0
1918.6962	29.01	-1.11	115665.400	1.0	120875.850	2.0
1918.7514	12.01	-.69	103689.890	2.5	108900.190	1.5
1918.8103	12.01	-.54	103689.890	3.5	108900.030	2.5
1918.8103	12.01	-1.84	103689.890	2.5	108900.030	2.5
1918.8251	15.00	-3.50	76192.300	1.5	81402.400	2.5
1918.8619	15.00	-2.08	69894.600	1.5	75104.600	.5
1918.9588	7.00	-1.82	107628.283	1.5	112838.020	1.5
1919.0461	17.01	-2.12	140259.000	2.0	145468.500	1.0
1919.1039	22.00	-2.18	36132.210	4.0	41341.553	5.0
1919.1566	13.01	-2.88	142362.800	1.0	147572.000	1.0
1919.1566	13.01	-2.67	142362.800	1.0	147572.000	0.0
1919.1566	13.01	-3.97	142362.800	1.0	147572.000	2.0
1919.1566	13.01	-2.40	142362.800	2.0	147572.000	1.0
1919.1566	13.01	-2.79	142362.800	2.0	147572.000	2.0
1919.1566	13.01	-2.04	142362.800	3.0	147572.000	2.0
1919.1639	18.01	-1.42	206397.290	4.5	211606.470	3.5
1919.1676	18.01	-2.35	206397.300	3.5	211606.470	3.5
1919.2856	22.00	-4.15	41985.830	3.0	47194.680	4.0
1919.4120	12.00	-2.96	54192.256	3.0	59400.763	2.0
1919.4120	12.00	-1.63	54192.256	3.0	59400.763	3.0
1919.4120	12.00	-1.82	54192.256	3.0	59400.763	3.0
1919.4120	12.00	-.35	54192.256	3.0	59400.763	4.0
1919.4260	12.00	-1.59	54192.294	2.0	59400.763	2.0
1919.4260	12.00	-.62	54192.294	2.0	59400.763	3.0
1919.4260	12.00	-1.85	54192.294	2.0	59400.763	3.0
1919.4293	10.01	-1.92	276511.820	.5	281720.280	1.5
1919.4293	6.00	-2.04	81311.010	0.0	86519.470	1.0
1919.4415	12.00	-.68	54192.336	1.0	59400.763	2.0
1919.4544	14.00	-3.95	59034.988	3.0	64243.380	2.0
1919.4699	10.00	-4.47	167648.640	2.0	172856.990	1.0
1919.5140	6.00	-3.91	83752.410	1.0	88960.640	0.0
1919.5472	26.02	-3.46	199884.390	5.0	205092.530	4.0
1919.6692	22.00	-4.70	34204.971	4.0	39412.780	5.0
1919.6954	28.00	-3.97	43258.792	4.0	48466.530	5.0
1919.7241	14.00	-4.96	59190.460	1.0	64398.120	2.0
1919.8605	28.01	-3.57	116087.380	4.5	121294.670	4.5
1920.1113	24.00	-4.01	49598.080	2.0	54804.690	1.0
1920.1898	26.00	-1.66	48928.423	2.0	54134.820	2.0
1920.2735	18.00	-1.99	119444.880	2.0	124651.050	1.0
1920.3326	10.01	-1.44	302816.980	1.5	308022.990	.5
1920.3547	26.00	-4.28	43325.946	3.0	48531.896	3.0
1920.5096	28.01	-4.49	96052.480	2.5	101258.010	1.5
1920.5355	7.00	-1.17	105143.680	2.5	110349.140	3.5
1920.5650	7.00	-1.75	105143.680	2.5	110349.060	2.5
1920.6240	29.01	-3.53	136336.880	1.0	141542.100	2.0
1920.6572	24.00	-4.58	49466.770	2.0	54671.900	1.0
1920.6683	28.01	-4.11	115956.710	2.5	121161.810	1.5
1920.8001	12.00	-2.24	54676.438	3.0	59881.181	2.0
1920.8049	12.00	-3.48	54676.438	3.0	59881.168	3.0
1920.8473	10.00	-1.55	165828.175	2.0	171032.790	3.0
1920.8949	12.00	-2.51	54676.710	2.0	59881.196	1.0
1920.9005	12.00	-3.42	54676.710	2.0	59881.181	2.0
1920.9005	12.00	-4.76	54676.710	3.0	59881.181	2.0
1920.9053	12.00	-4.79	54676.710	2.0	59881.168	3.0
1920.9053	12.00	-3.62	54676.710	3.0	59881.168	3.0
1920.9053	12.00	-2.18	54676.710	4.0	59881.168	3.0
1921.1223	27.00	-4.11	28470.510	1.5	33674.380	2.5
1921.1703	18.01	-3.04	195031.120	2.5	200234.860	2.5
1921.1998	28.01	-.05	99442.860	4.5	104646.520	3.5
1921.2589	30.02	-.89	257908.200	1.0	263111.700	0.0
1921.3881	24.00	-4.00	31009.000	3.0	36212.150	4.0
1921.5986	29.01	-2.78	141733.900	2.0	146936.480	2.0
1921.6197	26.00	-3.66	45220.662	3.0	50423.185	4.0
1921.7907	18.01	-.64	202544.320	2.5	207746.380	2.5
1921.8350	23.00	-1.39	32738.140	1.5	37940.080	.5
1921.9976	28.01	-.14	113177.610	3.5	118379.110	2.5
1922.0294	26.00	-1.42	48531.896	3.0	53733.310	3.0
1922.1280	10.00	-2.43	167011.563	2.0	172212.710	1.0
1922.1280	10.00	-1.48	167011.563	2.0	172212.710	2.0
1922.4559	6.00	-3.09	84032.150	1.0	89232.410	1.0
1922.5446	14.01	-.67	122163.740	1.5	127363.760	2.5
1922.5668	14.01	-.51	122163.800	2.5	127363.760	3.5
1922.5668	14.01	-1.82	122163.800	2.5	127363.760	2.5
1922.6445	18.01	-.65	199879.320	3.5	205079.070	2.5
1922.6733	10.00	-4.54	167794.968	2.0	172994.640	2.0
1922.6733	10.00	-.76	167794.968	2.0	172994.640	3.0
1922.6741	25.00	-1.92	57305.620	3.5	62505.290	3.5
1922.6811	17.00	-1.02	94482.236	2.5	99661.887	1.5
1922.8553	28.01	-3.17	128853.870	2.5	134053.050	2.5
1922.8664	22.00	-4.26	41988.390	3.0	47187.540	2.0
1922.9403	27.00	-2.31	45971.190	3.5	51170.140	4.5
1922.9736	27.00	-3.77	49484.050	3.5	54682.910	4.5
1922.9773	28.01	-4.83	130314.070	2.5	135512.920	2.5
1923.0169	10.00	-4.78	167795.897	3.0	172994.640	2.0
1923.0169	10.00	-2.05	167795.897	3.0	172994.640	3.0
1923.0169	10.00	-1.94	167795.897	3.0	172994.640	3.0
1923.0169	10.00	-.62	167795.897	3.0	172994.640	4.0
1923.0476	18.00	-4.50	119444.880	2.0	124643.540	1.0
1923.1031	29.01	-2.37	116326.160	3.0	121524.670	3.0
1923.2566	7.00	-2.38	111060.905	.5	116259.000	.5
1923.2566	7.00	-3.44	111060.905	.5	116259.000	1.5
1923.2877	14.00	-2.55	57468.239	2.0	62666.250	1.0
1923.3769	27.00	-4.34	46002.830	2.5	51200.600	1.5
1923.4043	10.00	-3.64	167796.944	2.0	172994.640	2.0
1923.4043	10.00	-.75	167796.944	2.0	172994.640	3.0
1923.4043	10.00	-3.23	167796.944	2.0	172994.640	3.0
1923.4176	26.02	-4.70	199804.810	4.0	205002.470	3.0
1923.4398	17.01	-3.90	153571.000	1.0	158768.600	2.0
1923.5138	6.00	-1.57	81325.760	1.0	86523.160	0.0
1923.5212	23.02	-3.78	155682.600	3.5	160879.980	4.5
1923.5519	17.00	-3.16	94973.683	.5	100170.980	1.5
1923.5656	27.00	-4.35	46872.740	3.5	52070.000	2.5
1923.6322	18.01	-3.19	205249.930	2.5	210447.010	3.5
1923.6692	18.01	-1.95	205250.030	3.5	210447.010	3.5
1923.9099	28.01	-2.36	114970.190	.5	120166.520	1.5
1923.9247	21.00	-4.31	32659.210	1.5	37855.500	2.5
1923.9669	7.00	-1.77	107628.283	1.5	112824.459	2.5
1923.9765	18.01	-2.07	206397.290	4.5	211593.440	4.5
1923.9802	18.01	-4.33	206397.300	3.5	211593.440	4.5
1924.0321	6.00	-3.64	84103.100	2.0	89299.100	3.0
1924.1765	24.00	-.54	44125.900	1.0	49321.510	2.0
1924.2543	15.00	-1.18	75353.400	1.5	80548.800	2.5
1924.2764	9.00	-2.89	130489.930	.5	135685.270	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1924.4395	15.00	-.87	75104.600	.5	80299.500	1.5
1924.4432	28.01	-4.23	96052.480	2.5	101247.370	2.5
1924.4469	18.02	-4.31	209151.820	2.0	214346.700	1.0
1924.4543	24.00	-4.59	49477.040	1.0	54671.900	1.0
1924.4543	24.00	-4.05	49477.040	2.0	54671.900	1.0
1924.5840	28.01	-1.19	116261.810	.5	121456.320	1.5
1924.6506	28.01	-.99	116191.470	2.5	121385.800	1.5
1924.7840	28.01	-4.41	131133.580	2.5	136327.550	1.5
1924.7952	14.00	-4.91	59118.030	3.0	64311.970	4.0
1924.8804	6.00	-2.49	81325.760	1.0	86519.470	1.0
1924.9101	28.01	-3.57	109675.720	.5	114869.350	1.5
1925.0435	18.01	-2.86	203501.800	2.5	208695.070	1.5
1925.0694	13.01	-1.59	139588.700	4.0	144781.900	3.0
1925.0694	13.01	-1.94	139588.700	4.0	144781.900	3.0
1925.0694	13.01	-3.74	139588.700	3.0	144781.900	3.0
1925.1584	28.01	-.66	100475.820	3.5	105668.780	2.5
1925.1807	15.01	-3.25	124433.100	1.0	129626.000	1.0
1925.2770	22.00	-4.79	41457.620	3.0	46650.260	3.0
1925.4698	20.00	-2.10	31539.495	1.0	36731.615	1.0
1925.5218	28.01	-4.80	130320.940	3.5	135512.920	2.5
1925.5329	8.01	-4.45	246028.950	3.5	251220.900	3.5
1925.5923	18.00	-4.54	119847.810	1.0	125039.600	1.0
1925.7884	7.00	-4.39	110710.739	2.5	115902.000	3.5
1925.8000	23.00	-2.90	20812.990	1.5	26004.220	2.5
1925.8111	26.02	-4.05	218860.430	2.0	224051.630	3.0
1925.8148	10.01	-.73	302831.800	.5	308022.990	.5
1925.8868	18.00	-2.52	120600.944	2.0	125791.940	2.0
1925.9558	28.01	-5.00	116893.980	2.5	122084.790	1.5
1926.0508	26.00	-2.44	40404.492	1.0	45595.046	0.0
1926.1562	28.01	-3.20	115956.710	2.5	121146.980	2.5
1926.2749	10.01	-.24	302816.980	1.5	308006.930	.5
1926.3863	22.00	-2.19	36065.750	3.0	41255.400	4.0
1926.5151	26.00	-4.90	50186.814	2.0	55376.117	1.0
1926.5325	17.00	-4.32	95700.874	3.5	100890.130	2.5
1926.5823	17.00	-.99	95313.749	1.5	100502.871	1.5
1926.6347	17.00	-3.27	95700.874	3.5	100889.855	3.5
1926.6658	22.00	-2.81	41341.553	5.0	46530.450	4.0
1926.6982	18.01	-2.25	206397.300	3.5	211586.110	2.5
1926.7832	17.00	-.78	95400.731	2.5	100589.312	2.5
1926.8170	6.00	-.35	78731.270	1.0	83919.760	2.0
1926.8245	18.01	-3.16	205250.030	3.5	210438.500	4.5
1926.9079	8.00	-2.64	102928.355	4.0	108116.600	3.0
1926.9618	29.01	-2.14	146215.700	1.0	151403.800	2.0
1927.2021	17.00	-1.87	97338.887	2.5	102526.340	2.5
1927.2318	17.00	-.57	97338.887	2.5	102526.260	3.5
1927.4147	10.00	-3.39	167807.759	1.0	172994.640	2.0
1927.4800	3.00	-.73	31283.000	0.0	36471.121	0.0
1927.5637	28.01	-.42	112686.300	2.5	117872.780	2.5
1927.6306	17.00	-.90	91127.030	2.5	96313.330	1.5
1927.6418	28.01	-4.79	116893.980	2.5	122080.250	2.5
1927.6856	17.00	-4.03	94482.236	2.5	99668.388	3.5
1927.7161	28.01	-4.89	114858.880	5.5	120044.950	4.5
1927.7235	28.01	-3.21	128867.000	3.5	134053.050	2.5
1927.7793	14.00	-1.38	59118.030	3.0	64303.930	3.0
1927.8239	28.01	-.16	98467.250	3.5	103653.030	3.5
1927.8455	10.00	-1.99	167026.988	1.0	172212.710	1.0
1927.8455	10.00	-1.78	167026.988	1.0	172212.710	2.0
1927.9543	11.00	-1.97	34548.731	2.5	39734.160	2.5
1927.9543	11.00	-.67	34548.731	2.5	39734.160	3.5
1927.9577	28.01	-4.23	131103.180	2.5	136288.600	2.5
1927.9674	11.00	-.83	34548.766	1.5	39734.160	2.5
1927.9726	25.00	-2.66	51305.410	2.5	56490.790	2.5
1928.0020	14.00	-3.45	59109.959	3.0	64295.260	3.0
1928.1065	28.00	-3.11	45281.152	3.0	50466.172	4.0
1928.2575	22.00	-5.34	11776.806	4.0	16961.420	3.0
1928.2627	15.00	-3.58	72884.400	2.5	78069.000	1.5
1928.2813	14.01	-.66	119311.450	3.5	124496.000	2.5
1928.3299	14.00	-.57	49060.601	1.0	54245.020	0.0
1928.3370	14.01	-1.96	119311.600	2.5	124496.000	2.5
1928.3370	14.01	-.82	119311.600	2.5	124496.000	1.5
1928.3780	28.00	-2.89	50689.490	2.0	55873.780	2.0
1928.3984	7.00	-1.80	107628.283	1.5	112812.518	2.5
1928.5677	26.00	-4.68	48928.423	2.0	54112.203	2.0
1928.5975	13.01	-1.27	144964.700	3.0	150148.400	2.0
1928.5975	13.01	-2.69	144964.700	3.0	150148.400	3.0
1928.5975	13.01	-4.13	144964.700	3.0	150148.400	4.0
1928.5975	13.01	-1.79	144964.700	4.0	150148.400	3.0
1928.5975	13.01	-.76	144964.700	4.0	150148.400	3.0
1928.5975	13.01	-2.56	144964.700	4.0	150148.400	4.0
1928.5975	13.01	-2.70	144964.700	4.0	150148.400	4.0
1928.5975	13.01	-1.04	144964.700	5.0	150148.400	4.0
1928.8021	22.00	-.61	39640.980	3.0	44824.130	2.0
1928.8579	29.01	-2.36	141244.600	1.0	146427.600	1.0
1928.8728	27.00	-3.71	48753.720	1.5	53936.680	2.5
1928.9212	14.01	-1.24	117915.060	.5	123097.890	.5
1929.2082	22.00	-4.05	37852.021	1.0	43034.080	1.0
1929.3269	25.00	-3.27	57305.620	3.5	62487.360	2.5
1929.3865	27.00	-4.00	41041.430	3.5	46223.010	4.5
1929.4911	18.00	-1.88	111818.090	1.0	116999.389	2.0
1929.5411	10.00	-1.99	165828.175	2.0	171009.340	1.0
1929.6249	6.00	-3.21	81325.760	1.0	86506.700	2.0
1929.6547	27.00	-4.99	43537.710	1.5	48718.570	2.5
1929.7776	24.00	-4.32	35862.820	4.0	41043.350	3.0
1929.8260	6.00	-2.39	81311.010	0.0	86491.410	1.0
1929.8271	22.00	-1.90	34535.040	2.0	39715.437	3.0
1929.8335	28.01	-.70	115870.280	2.5	121050.660	2.5
1929.8446	18.02	-3.75	209166.350	0.0	214346.700	1.0
1930.0373	14.00	-3.26	56780.427	1.0	61960.260	0.0
1930.0943	14.00	-2.89	59118.030	3.0	64297.710	4.0
1930.1986	28.01	-.20	116145.690	3.5	121325.090	2.5
1930.2209	14.00	-2.25	59118.030	3.0	64297.370	3.0
1930.2418	7.00	-2.22	107628.283	1.5	112807.567	.5
1930.3123	7.00	-2.18	111060.905	.5	116240.000	1.5
1930.3641	26.00	-3.73	46888.494	2.0	52067.450	2.0
1930.4249	14.00	-1.09	57198.027	3.0	62376.820	3.0
1930.5005	28.01	-2.13	122812.970	3.5	127991.560	3.5
1930.5116	14.00	-1.46	56978.256	1.0	62156.816	2.0
1930.5863	28.01	-3.83	127991.560	3.5	133169.920	3.5
1930.7317	27.00	-4.83	50105.050	1.5	55283.020	2.5
1930.7764	28.01	-.60	98969.440	5.5	104147.290	5.5
1930.7839	28.01	-.93	100490.950	1.5	105668.780	2.5
1930.8197	8.00	-4.34	102928.355	4.0	108106.089	3.0
1930.9222	20.00	-2.46	15157.901	0.0	20335.360	1.0
1930.9222	20.00	-1.14	15157.901	0.0	20335.360	1.0
1930.9517	28.01	-.59	100845.410	.5	106022.790	.5
1930.9946	20.00	-1.39	42744.716	2.0	47921.981	3.0
1931.1046	25.00	-4.03	52128.650	2.5	57305.620	3.5
1931.1266	26.00	-3.30	42859.756	2.0	48036.667	2.0
1931.1793	18.01	-4.02	205301.000	2.5	210477.770	3.5
1931.3336	18.00	-1.55	120600.944	2.0	125777.300	1.0
1931.4740	6.00	-4.55	83986.220	3.0	89162.200	2.0
1931.5337	10.01	-.78	302961.070	1.5	308136.890	1.5
1931.5673	23.00	-3.00	34065.610	2.5	39241.340	2.5
1931.6605	6.00	-2.28	81343.990	2.0	86519.470	1.0
1931.7386	14.00	-1.41	58311.659	0.0	63486.930	1.0
1931.7912	10.01	-.72	302831.800	.5	308006.930	.5
1931.8622	7.00	-4.40	110349.060	2.5	115524.000	1.5
1931.8920	7.00	-4.23	110349.140	3.5	115524.000	2.5
1931.8995	22.00	-4.12	42107.060	4.0	47281.900	3.0
1931.9718	20.00	-1.23	42747.387	3.0	47922.033	4.0
1931.9722	12.00	-4.38	54706.536	1.0	59881.181	2.0
1931.9913	20.00	-2.29	42747.387	3.0	47921.981	3.0
1932.0787	24.00	-2.67	49812.460	3.0	54986.820	3.0
1932.1414	10.00	-2.06	166656.508	1.0	171830.700	1.0
1932.2878	13.01	-.94	142958.900	1.0	148132.700	2.0
1932.3449	26.00	-4.17	44676.963	4.0	49850.610	3.0
1932.4559	27.00	-4.90	47091.140	.5	52264.490	1.5
1932.5717	10.01	-1.39	302247.780	3.5	307420.820	2.5
1932.6277	29.01	-.78	139710.200	2.0	144883.090	2.0
1932.6375	18.00	-2.39	120619.076	2.0	125791.940	2.0
1932.6603	14.00	-3.21	57372.297	2.0	62545.100	1.0
1932.6808	7.00	-2.06	107628.283	1.5	112801.031	1.5
1932.8519	28.01	-.57	115870.280	2.5	121042.570	1.5
1932.8545	17.00	-3.33	97354.057	1.5	102526.340	2.5
1933.0171	7.00	-4.86	110715.152	3.5	115887.000	3.5
1933.0381	10.00	-1.66	166656.508	1.0	171828.300	2.0
1933.0418	26.00	-3.93	48702.518	4.0	53874.300	5.0
1933.1397	18.01	-1.39	203501.800	2.5	208673.320	2.5
1933.1483	7.00	-1.49	107588.469	.5	112759.966	1.5
1933.2070	6.00	-3.38	83919.760	2.0	89091.100	1.0
1933.2519	28.00	-.99	49403.420	1.0	54574.640	1.0
1933.2967	29.01	-3.89	141244.600	1.0	146415.700	2.0
1933.4381	14.00	-4.16	58774.368	3.0	63945.090	3.0
1933.4537	17.00	-2.04	95700.874	3.5	100871.554	3.5
1933.4908	26.00	-3.91	31805.059	3.0	36975.640	3.0
1933.5828	17.00	-1.04	95700.874	3.5	100871.209	4.5
1933.6520	23.01	-2.70	44098.460	3.0	49268.610	4.0
1933.7193	23.00	-2.46	37075.640	4.5	42245.610	3.5
1933.8240	27.00	-3.98	49197.740	4.5	54367.430	5.5
1933.9025	6.00	-4.53	83986.220	3.0	89155.700	3.0
1933.9886	6.00	-3.59	83986.450	4.0	89155.700	3.0
1933.9924	24.00	-4.91	35813.730	3.0	40982.970	2.0
1933.9961	7.01	-3.97	221322.860	5.0	226492.090	4.0
1934.0223	24.00	-4.96	49477.040	1.0	54646.200	0.0
1934.0934	29.01	-2.89	128558.900	3.0	133727.870	2.0
1934.2943	7.00	-2.98	111143.567	.5	116312.000	.5
1934.2943	7.00	-3.28	111143.567	.5	116312.000	1.5
1934.3329	24.00	-3.43	49650.220	3.0	54818.550	2.0
1934.4149	10.00	-.82	167047.609	2.0	172215.720	3.0
1934.4265	18.00	-3.55	119212.930	3.0	124381.010	2.0
1934.7057	28.00	-1.17	47030.148	3.0	52197.482	3.0
1934.8046	27.00	-3.77	43911.360	1.5	49078.430	1.5
1934.8117	10.00	-2.13	167048.669	3.0	172215.720	3.0
1934.8117	10.00	-.69	167048.669	3.0	172215.720	4.0
1934.8271	9.02	-3.14	384358.540	.5	389525.550	1.5
1934.8458	28.01	.18	100332.090	4.5	105499.050	3.5
1935.1416	6.00	-2.95	83747.390	2.0	88913.560	2.0
1935.1941	7.01	-4.46	221322.760	4.0	226488.790	3.0
1935.2840	24.00	-4.92	49652.760	2.0	54818.550	2.0
1935.3065	25.00	-4.02	57621.900	1.5	62787.630	1.5
1935.3207	10.00	-2.35	166656.508	1.0	171822.200	1.0
1935.3364	6.00	-1.47	81325.760	1.0	86491.410	1.0
1935.3394	26.00	-3.57	46901.808	1.0	52067.450	2.0
1935.4114	28.01	.11	99132.780	5.5	104298.230	4.5
1935.4189	22.00	-4.64	43674.310	4.0	48839.740	3.0
1935.5422	10.00	-2.80	167047.609	2.0	172212.710	1.0
1935.5422	10.00	-3.75	167047.609	2.0	172212.710	2.0
1935.6003	17.00	-3.35	95700.874	3.5	100865.820	2.5
1935.6138	18.01	-1.89	205273.590	5.5	210438.500	4.5
1935.6175	15.00	-3.85	75905.100	2.5	81070.000	1.5
1935.6834	18.00	-1.62	120619.076	2.0	125783.800	1.0
1935.8236	21.00	-4.14	33707.250	2.5	38871.600	2.5
1935.8611	23.01	-3.21	32040.760	2.0	37205.010	3.0
1935.8686	24.00	-3.27	49822.590	2.0	54986.820	3.0
1935.9361	28.01	.17	115739.150	4.5	120903.200	3.5
1935.9395	10.00	-2.61	167048.669	3.0	172212.710	2.0
1935.9586	7.00	-1.54	107445.622	1.5	112609.612	1.5
1935.9650	5.00	-3.82	60031.027	2.5	65195.000	2.5
1935.9650	5.00	-2.52	60031.027	3.5	65195.000	2.5
1935.9650	5.00	-2.67	60031.027	2.5	65195.000	1.5
1936.0111	18.01	-2.82	205300.860	1.5	210464.710	2.5
1936.0560	23.00	-4.60	15664.750	1.5	20828.480	2.5
1936.0635	18.01	-1.84	205301.000	2.5	210464.710	2.5
1936.0898	28.01	-4.61	131124.960	3.5	136288.600	2.5
1936.1985	27.00	-2.90	43555.220	3.5	48718.570	2.5
1936.1993	14.00	-3.22	59131.912	4.0	64295.260	3.0
1936.4385	6.00	-1.11	81343.990	2.0	86506.700	2.0
1936.4536	28.01	-.65	99340.550	3.5	104503.220	2.5
1936.5361	6.00	-4.42	83919.650	3.0	89082.100	3.0
1936.5605	26.00	-4.32	48231.330	5.0	53393.715	4.0
1936.6374	24.00	-3.89	49812.460	3.0	54974.640	2.0
1936.8437	15.00	-.10	68088.270	1.5	73249.900	1.5
1936.9176	7.00	-2.75	111143.567	.5	116305.000	.5
1936.9176	7.00	-4.24	111143.567	.5	116305.000	1.5
1936.9578	26.00	-4.17	46888.494	2.0	52049.820	2.0
1937.0239	6.00	-3.55	83752.410	1.0	88913.560	2.0
1937.0243	17.00	-.43	82918.893	2.5	88080.042	2.5
1937.1435	18.00	-1.88	116999.389	2.0	122160.220	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1937.1634	14.00	-4.90	59191.072	2.0	64351.850	3.0
1937.2641	23.00	-2.69	33966.720	.5	39127.230	1.5
1937.3617	6.00	-3.20	83919.650	3.0	89079.900	2.0
1937.4030	6.00	-4.67	83919.760	2.0	89079.900	2.0
1937.4105	27.00	-3.83	47612.180	1.5	52772.300	2.5
1937.4893	18.01	-.54	196621.880	3.5	201781.790	2.5
1937.6058	29.01	.08	146215.700	1.0	151375.300	2.0
1937.6320	25.00	-4.39	56567.930	1.5	61727.460	2.5
1937.8612	28.01	-3.13	94283.940	4.5	99442.860	4.5
1937.9400	27.00	-4.52	49197.740	4.5	54356.450	4.5
1937.9588	21.00	-3.92	32696.840	2.5	37855.500	2.5
1937.9768	10.00	-4.51	167052.657	2.0	172211.269	3.0
1938.0302	10.00	-4.70	167052.645	1.0	172211.115	2.0
1938.0490	28.01	-3.29	95332.530	2.5	100490.950	1.5
1938.1053	29.01	-3.98	128569.600	2.0	133727.870	2.0
1938.1166	7.00	-4.88	110459.760	1.5	115618.000	1.5
1938.1227	18.00	-3.26	120619.076	2.0	125777.300	1.0
1938.1805	27.00	-3.24	48546.070	1.5	53704.140	2.5
1938.3007	28.01	-4.53	68735.980	2.5	73893.730	1.5
1938.3270	6.00	-4.16	83986.220	3.0	89143.900	3.0
1938.3721	24.00	-4.04	35813.730	3.0	40971.290	2.0
1938.3872	28.01	-4.34	132120.700	.5	137278.220	1.5
1938.3947	29.01	-4.20	133984.600	3.0	139142.100	2.0
1938.4135	6.00	-3.32	83986.450	4.0	89143.900	3.0
1938.4172	27.00	-3.11	27497.060	2.5	32654.500	2.5
1938.4360	24.00	-4.38	38911.330	3.0	44068.720	3.0
1938.4586	28.01	-2.18	116167.760	1.5	121325.090	2.5
1938.5112	23.00	-1.20	32846.740	2.5	38003.930	1.5
1938.5112	23.00	-3.54	32846.740	2.5	38003.930	1.5
1938.5368	26.00	-4.12	46137.140	3.0	51294.262	3.0
1938.5939	14.00	-.56	49028.294	0.0	54185.264	1.0
1938.7330	6.00	-3.50	84013.400	2.0	89170.000	1.0
1938.7556	27.00	-3.44	43921.890	2.5	49078.430	1.5
1938.7838	10.00	-3.93	167052.645	1.0	172209.110	1.0
1938.7883	10.00	-3.64	167052.657	2.0	172209.110	1.0
1938.7932	6.00	-3.32	83986.220	3.0	89142.660	2.0
1938.8195	25.00	-2.41	58075.060	5.5	63231.430	4.5
1938.8797	14.00	-3.34	58788.880	4.0	63945.090	3.0
1938.8909	28.01	-3.81	122175.420	2.5	127331.600	2.5
1938.9285	28.01	-1.64	113407.310	2.5	118563.390	3.5
1938.9410	20.00	-2.02	41679.008	1.0	46835.055	0.0
1938.9962	6.00	-4.72	83926.200	3.0	89082.100	3.0
1939.0601	6.00	-3.10	83926.370	4.0	89082.100	3.0
1939.0703	14.00	-2.35	56780.427	1.0	61936.130	1.0
1939.2784	18.01	-.91	194996.490	1.5	200151.640	1.5
1939.2971	29.01	-3.81	133826.200	2.0	138981.300	2.0
1939.3272	28.01	-4.52	131133.580	2.5	136288.600	2.5
1939.5718	23.00	-4.40	36983.630	1.5	42138.000	2.5
1939.6603	10.00	-4.33	167052.645	1.0	172206.780	2.0
1939.6648	10.00	-3.38	167052.657	2.0	172206.780	2.0
1939.7509	28.00	-1.53	45122.460	1.0	50276.354	0.0
1939.7825	25.00	-4.90	57360.780	1.5	62514.590	2.5
1939.8111	26.00	-3.61	46600.800	1.0	51754.534	1.0
1939.8239	6.00	-4.53	83926.200	3.0	89079.900	2.0
1939.8917	28.01	-4.33	116087.380	4.5	121240.900	3.5
1939.9708	28.01	-3.55	116893.980	2.5	122047.290	3.5
1939.9896	29.01	-.28	116371.410	4.0	121524.670	3.0
1940.0762	28.01	-.45	112719.750	3.5	117872.780	2.5
1940.1582	14.00	-4.19	59034.988	3.0	64187.800	3.0
1940.2004	17.01	-3.12	153571.000	1.0	158723.700	1.0
1940.2381	17.01	-3.65	165362.100	0.0	170514.700	1.0
1940.3096	29.01	.06	141733.900	2.0	146886.310	1.0
1940.3511	6.00	-1.92	83761.260	3.0	88913.560	2.0
1940.3586	26.00	-4.67	49227.160	3.0	54379.440	3.0
1940.4452	24.00	-4.17	49822.590	2.0	54974.640	2.0
1940.4904	24.00	-3.23	49652.760	2.0	54804.690	1.0
1940.5005	14.00	-3.52	57198.027	3.0	62349.930	2.0
1940.6731	26.00	-4.25	46888.494	2.0	52039.939	1.0
1940.7127	6.00	-4.50	84013.400	2.0	89164.740	1.0
1940.7616	23.00	-3.00	33976.020	1.5	39127.230	1.5
1940.8094	17.00	-2.92	85917.937	.5	91069.020	.5
1940.8181	22.00	-2.49	34535.040	2.0	39686.100	2.0
1940.9323	14.00	-4.96	59037.043	4.0	64187.800	3.0
1941.0480	6.00	-3.95	83986.450	4.0	89136.900	4.0
1941.0631	25.00	-3.41	45754.270	3.5	50904.680	2.5
1941.1219	12.00	-2.04	54192.256	3.0	59342.510	2.0
1941.1362	12.00	-2.49	54192.294	2.0	59342.510	1.0
1941.1362	12.00	-2.96	54192.294	2.0	59342.510	2.0
1941.1521	12.00	-2.79	54192.336	1.0	59342.510	1.0
1941.1521	12.00	-3.97	54192.336	1.0	59342.510	2.0
1941.1521	12.00	-2.67	54192.336	1.0	59342.510	0.0
1941.1799	18.01	-1.75	202544.320	2.5	207694.420	3.5
1941.3247	28.00	-2.05	51124.800	3.0	56274.516	2.0
1941.4891	7.01	-4.55	221342.810	3.0	226492.090	4.0
1941.5061	10.00	-3.46	167052.645	1.0	172201.880	1.0
1941.5106	10.00	-3.01	167052.657	2.0	172201.880	1.0
1941.5606	7.01	-2.96	221343.000	4.0	226492.090	4.0
1941.6134	6.00	-3.32	84013.250	3.0	89162.200	2.0
1941.6700	23.00	-4.83	36989.200	2.5	42138.000	2.5
1941.6700	6.00	-4.12	84013.400	2.0	89162.200	2.0
1941.6813	18.01	-1.88	196633.020	2.5	201781.790	2.5
1941.7862	7.00	-1.81	107588.469	.5	112736.961	1.5
1941.8439	8.00	-4.66	102968.261	3.0	108116.600	2.0
1941.8439	8.00	-4.46	102968.261	4.0	108116.600	3.0
1941.8794	8.00	-2.89	102968.355	2.0	108116.600	1.0
1941.8794	8.00	-3.62	102968.355	2.0	108116.600	2.0
1941.8794	8.00	-2.72	102968.355	3.0	108116.600	2.0
1941.8794	8.00	-3.63	102968.355	3.0	108116.600	3.0
1941.9672	26.00	-4.13	46901.808	1.0	52049.820	2.0
1942.0812	6.00	-3.83	83497.620	2.0	88645.330	1.0
1942.0812	6.00	-1.94	83497.620	2.0	88645.330	2.0
1942.0831	10.00	-3.34	167052.645	1.0	172200.350	0.0
1942.1679	28.01	-4.49	130314.070	2.5	135461.550	2.5
1942.1838	10.00	-2.33	165912.782	1.0	171060.220	2.0
1942.1850	18.00	-3.52	118906.665	2.0	124054.100	3.0
1942.1906	6.00	-1.70	81343.990	2.0	86491.410	1.0
1942.2121	14.00	-2.55	57372.297	2.0	62519.660	2.0
1942.3800	26.00	-3.93	45551.748	1.0	50698.666	2.0
1942.4087	7.00	-2.98	111165.158	1.5	116312.000	.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1942.4087	7.00	-2.47	111165.158	1.5	116312.000	1.5
1942.4087	7.00	-3.68	111165.158	1.5	116312.000	2.5
1942.4128	16.00	-1.06	73910.309	1.0	79057.140	2.0
1942.4925	23.01	-4.63	68147.200	4.0	73293.820	5.0
1942.5031	10.00	-4.91	166656.508	1.0	171803.100	2.0
1942.5382	12.00	-.97	51872.526	1.0	57019.025	2.0
1942.5804	26.00	-4.22	45833.240	4.0	50979.627	4.0
1942.7016	18.00	-2.08	117183.654	2.0	122329.720	3.0
1942.7227	18.01	-2.88	205301.000	2.5	210447.010	3.5
1942.7341	7.01	-3.10	221342.810	3.0	226488.790	3.0
1942.8058	7.01	-4.68	221343.000	4.0	226488.790	3.0
1942.8247	14.00	-2.48	57450.580	3.0	62596.320	2.0
1942.8436	25.00	-4.80	57487.080	2.5	62632.770	3.5
1943.0293	12.00	-1.19	51872.526	1.0	57017.724	1.0
1943.0595	10.00	-1.98	165912.782	1.0	171057.900	1.0
1943.0988	55.00	-1.23	21765.650	0.0	26912.069	0.0
1943.1041	13.01	-.85	144964.700	4.0	150109.700	3.0
1943.1041	13.01	-1.75	144964.700	4.0	150109.700	3.0
1943.1041	13.01	-2.57	144964.700	3.0	150109.700	3.0
1943.1056	10.00	-2.54	167060.301	4.0	172205.297	3.0
1943.1098	18.00	-1.57	118906.665	2.0	124051.650	2.0
1943.1687	10.00	-4.08	167060.301	4.0	172205.130	4.0
1943.1710	10.00	-2.44	167060.307	5.0	172205.130	4.0
1943.1891	18.00	-.44	118906.665	2.0	124051.440	3.0
1943.2288	7.00	-4.63	110385.330	2.5	115530.000	1.5
1943.2734	12.00	-1.67	51872.526	1.0	57017.078	0.0
1943.2820	14.00	-.58	56503.346	2.0	61647.875	2.0
1943.2972	14.00	-.21	49060.601	1.0	54205.090	2.0
1943.3832	7.00	-4.47	110710.739	2.5	115855.000	2.5
1943.4218	18.00	-3.23	116942.815	3.0	122086.974	2.0
1943.4705	10.01	-1.18	302750.810	3.5	307894.840	2.5
1943.4766	14.00	-1.70	56503.346	2.0	61647.360	1.0
1943.4894	28.01	-1.12	116312.340	1.5	121456.320	1.5
1943.5121	28.01	-4.75	115000.250	3.5	120144.170	2.5
1943.5423	24.00	-3.30	24277.060	0.0	29420.900	1.0
1943.5574	18.00	-1.44	119212.930	3.0	124356.730	2.0
1943.6783	26.00	-4.78	49242.680	2.0	54386.160	1.0
1943.6972	21.00	-4.69	32637.400	.5	37780.830	1.5
1943.7010	28.01	-.72	99154.810	4.5	104298.230	4.5
1943.7501	28.01	-3.31	95332.530	2.5	100475.820	3.5
1943.7985	16.00	-.84	73913.978	2.0	79057.140	2.0
1943.8257	18.01	-.75	213860.510	3.5	219003.600	2.5
1943.9482	18.00	-3.65	121068.804	1.0	126211.570	1.0
1944.0336	27.00	-3.86	49847.080	2.5	54989.620	3.5
1944.0677	6.00	-4.55	84013.250	3.0	89155.700	3.0
1944.1206	26.00	-3.71	43079.013	1.0	48221.323	1.0
1944.1277	10.00	-2.86	167846.689	2.0	172988.980	1.0
1944.1602	10.00	-3.27	167069.064	3.0	172211.269	3.0
1944.1652	10.00	-4.59	167069.077	2.0	172211.269	3.0
1944.1920	14.00	-3.49	59109.959	3.0	64252.080	2.0
1944.2185	10.00	-4.60	167069.064	3.0	172211.115	2.0
1944.2234	10.00	-3.42	167069.077	2.0	172211.115	2.0
1944.2416	29.01	-.74	139741.100	3.0	144883.090	2.0
1944.3021	7.01	-3.91	221342.810	3.0	226484.640	2.0
1944.3059	17.00	-1.13	83130.900	1.5	88272.720	.5
1944.3361	11.00	-3.89	34586.960	2.5	39728.700	2.5
1944.3361	11.00	-2.59	34586.960	3.5	39728.700	2.5
1944.3361	11.00	-2.75	34586.960	2.5	39728.700	1.5
1944.5448	14.00	-4.69	59110.892	2.0	64252.080	2.0
1944.5668	29.01	-1.09	118163.500	2.0	123304.630	1.0
1944.6716	10.00	-3.85	167846.430	3.0	172987.283	3.0
1944.6769	10.00	-2.53	167846.444	4.0	172987.283	3.0
1944.6912	28.00	-2.96	44262.619	2.0	49403.420	1.0
1944.7015	10.00	-2.67	167846.430	3.0	172987.204	2.0
1944.7370	6.00	-1.71	83497.620	2.0	88638.300	2.0
1944.7370	6.00	-1.38	83497.620	2.0	88638.300	3.0
1944.7484	10.00	-4.80	167846.430	3.0	172987.080	2.0
1944.7624	22.00	-.87	36200.940	5.0	41341.553	5.0
1944.7635	28.01	-4.65	130320.940	3.5	135461.550	2.5
1944.7650	10.00	-3.93	167846.677	3.0	172987.283	3.0
1944.7995	10.00	-3.81	167846.689	2.0	172987.204	2.0
1944.8014	6.00	-4.47	83820.130	1.0	88960.640	0.0
1944.8316	28.01	.76	118294.170	3.5	123434.600	4.5
1944.8418	10.00	-2.65	167846.677	3.0	172987.080	2.0
1944.8463	10.00	-3.99	167846.689	2.0	172987.080	2.0
1944.9375	28.01	-3.91	130324.710	4.5	135464.860	3.5
1944.9818	10.00	-2.98	167069.077	2.0	172209.110	1.0
1945.0518	7.00	-3.17	110715.152	3.5	115855.000	2.5
1945.0541	7.00	-2.75	111165.158	1.5	116305.000	.5
1945.0541	7.00	-3.43	111165.158	1.5	116305.000	1.5
1945.0624	17.00	-1.87	91173.510	1.5	96313.330	1.5
1945.1003	28.01	-1.63	122080.250	2.5	127219.970	3.5
1945.1154	23.00	-3.27	15688.800	2.5	20828.480	2.5
1945.1154	7.01	-3.89	221343.000	4.0	226482.680	3.0
1945.1684	24.00	-3.82	38911.330	3.0	44050.870	4.0
1945.2024	6.00	-3.10	84016.250	4.0	89155.700	3.0
1945.2255	17.00	-4.42	91343.500	2.5	96482.889	2.5
1945.2516	14.00	-1.62	57017.496	2.0	62156.816	2.0
1945.2982	20.00	-2.10	15210.063	1.0	20349.260	2.0
1945.2982	20.00	-.79	15210.063	1.0	20349.260	2.0
1945.3107	26.00	-3.84	46600.800	1.0	51739.964	2.0
1945.4977	7.00	-5.00	110385.330	3.5	115524.000	3.5
1945.5507	28.01	.07	101144.630	3.5	106283.160	2.5
1945.5772	23.00	-2.09	31937.180	5.5	37075.640	4.5
1945.6756	13.01	-1.49	142958.900	1.0	148097.100	0.0
1945.7018	26.00	-3.77	46901.808	1.0	52039.939	1.0
1945.7060	28.00	-.80	51124.800	3.0	56262.920	3.0
1945.7256	14.00	-4.89	57798.072	2.0	62936.140	3.0
1945.7514	13.01	-.64	142362.800	3.0	147500.800	4.0
1945.8101	8.00	-3.25	102968.261	1.0	108106.106	0.0
1945.8113	8.00	-3.25	102968.261	1.0	108106.103	1.0
1945.8113	8.00	-2.95	102968.261	2.0	108106.103	1.0
1945.8135	8.00	-4.10	102968.261	1.0	108106.097	2.0
1945.8135	8.00	-3.10	102968.261	2.0	108106.097	2.0
1945.8135	8.00	-2.72	102968.261	3.0	108106.097	2.0
1945.8166	8.00	-4.10	102968.261	2.0	108106.089	3.0
1945.8166	8.00	-3.08	102968.261	3.0	108106.089	3.0
1945.8166	8.00	-2.53	102968.261	4.0	108106.089	3.0
1945.8185	8.00	-4.40	102968.261	3.0	108106.084	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1945.8185	8.00	-3.23	102968.261	4.0	108106.084	4.0
1945.8185	8.00	-2.36	102968.261	5.0	108106.084	4.0
1945.8491	8.00	-4.66	102968.355	3.0	108106.097	2.0
1945.8590	10.00	-2.76	167069.064	3.0	172206.780	2.0
1945.8639	10.00	-3.91	167069.077	2.0	172206.780	2.0
1945.9029	18.01	-4.41	206623.800	3.5	211761.400	3.5
1945.9105	18.01	-2.91	206623.800	3.5	211761.380	4.5
1945.9331	18.01	-.85	194822.100	3.5	199959.620	2.5
1945.9786	13.01	-1.16	142362.800	2.0	147500.200	3.0
1945.9786	13.01	-2.07	142362.800	3.0	147500.200	3.0
1946.0165	15.01	-.25	124433.100	1.0	129570.400	1.0
1946.0813	16.00	-.69	73920.011	3.0	79057.140	2.0
1946.1302	13.01	-1.70	142362.800	2.0	147499.800	2.0
1946.1302	13.01	-.97	142362.800	1.0	147499.800	2.0
1946.1302	13.01	-3.24	142362.800	3.0	147499.800	2.0
1946.2097	22.00	-.61	39785.940	4.0	44922.730	3.0
1946.2514	18.01	-2.61	203344.980	1.5	208481.660	.5
1946.2552	29.01	-4.33	116388.000	2.0	121524.670	3.0
1946.2938	26.00	-4.72	49242.872	3.0	54379.440	3.0
1946.3726	6.00	-.74	83497.620	2.0	88633.980	3.0
1946.4257	10.00	-4.78	167069.077	2.0	172205.297	3.0
1946.4674	18.00	-2.13	119212.930	3.0	124349.040	3.0
1946.4841	10.00	-4.67	167069.064	3.0	172205.130	4.0
1946.5849	22.00	-4.67	34078.580	3.0	39214.380	3.0
1946.6531	26.02	-4.20	218923.080	3.0	224058.700	4.0
1946.6831	26.00	-4.78	31805.059	3.0	36940.600	2.0
1946.6872	27.00	-3.70	47128.960	2.5	52264.490	1.5
1946.6986	17.01	-4.34	153633.100	1.0	158768.600	2.0
1946.8085	6.00	-3.79	84036.290	1.0	89171.500	0.0
1946.8154	10.00	-4.98	166656.508	1.0	171791.700	2.0
1946.9071	9.02	-2.52	459804.550	1.5	464939.500	2.5
1946.9261	29.01	-3.14	133984.600	3.0	139119.500	3.0
1946.9564	22.00	-3.89	42052.720	3.0	47187.540	2.0
1946.9963	18.00	-1.05	118906.665	2.0	124041.380	2.0
1947.0436	24.00	-.32	44186.920	2.0	49321.510	2.0
1947.0644	18.00	-2.00	118906.665	2.0	124041.200	1.0
1947.0739	6.00	-4.41	83919.650	3.0	89054.160	2.0
1947.1156	6.00	-4.34	83919.760	2.0	89054.160	2.0
1947.1308	24.00	-3.05	24286.540	1.0	29420.900	1.0
1947.1585	10.00	-4.05	167076.982	3.0	172211.269	3.0
1947.1619	10.00	-2.59	167076.991	4.0	172211.269	3.0
1947.1915	14.01	-.91	114177.400	3.5	119311.600	2.5
1947.2169	10.00	-2.72	167076.982	3.0	172211.115	2.0
1947.2279	18.00	-2.80	116660.054	1.0	121794.158	0.0
1947.2484	14.01	-.80	114177.400	4.5	119311.450	3.5
1947.2484	14.01	-2.35	114177.400	3.5	119311.450	3.5
1947.2613	18.00	-3.94	121068.804	1.0	126202.820	0.0
1947.3471	18.01	-3.49	190732.970	.5	195866.760	1.5
1947.3774	6.00	-3.90	84036.290	1.0	89170.000	1.0
1947.4115	28.01	-1.27	116191.470	2.5	121325.090	2.5
1947.4608	29.01	.09	117883.140	4.0	123016.630	3.0
1947.4870	14.00	-2.49	59109.959	3.0	64243.380	2.0
1947.4988	28.01	-.14	122086.580	3.5	127219.970	3.5
1947.6468	13.01	.03	144780.200	2.0	149913.200	3.0
1947.6581	27.00	-2.21	39649.160	3.5	44782.130	4.5
1947.6695	7.00	-4.90	110402.060	4.5	115535.000	3.5
1947.7037	7.00	-4.93	110402.150	3.5	115535.000	2.5
1947.7215	10.00	-4.15	167069.077	2.0	172201.880	1.0
1947.7860	22.00	-4.98	36208.920	4.0	41341.553	5.0
1947.7985	13.01	-4.64	133679.300	3.0	138811.900	3.0
1947.7985	13.01	-3.74	133679.300	3.0	138811.900	2.0
1947.8410	14.00	-3.14	59110.892	2.0	64243.380	2.0
1947.9033	28.00	-1.46	47139.392	2.0	52271.716	2.0
1947.9389	14.00	-2.81	59190.460	1.0	64322.690	0.0
1948.0103	7.00	-1.31	107628.283	1.5	112760.325	2.5
1948.0225	23.00	-2.92	17181.980	4.5	22313.990	5.5
1948.1174	18.01	-3.12	158167.710	1.5	163299.470	2.5
1948.1325	23.01	-4.65	68147.200	4.0	73278.920	4.0
1948.1465	7.00	-3.56	107628.283	1.5	112759.966	1.5
1948.1591	22.00	-4.35	41906.510	2.0	47038.160	3.0
1948.2924	26.00	-4.28	47929.981	4.0	53061.280	5.0
1948.3019	17.00	-.92	96594.096	.5	101725.370	1.5
1948.3068	7.00	-3.32	110710.739	2.5	115842.000	1.5
1948.3254	26.00	-4.32	46888.494	2.0	52019.706	1.0
1948.3679	13.01	-2.35	142958.900	1.0	148090.000	1.0
1948.3679	13.01	-1.88	142958.900	1.0	148090.000	2.0
1948.4409	10.00	-1.79	165912.782	1.0	171043.690	2.0
1948.5020	18.00	-2.14	117151.387	1.0	122282.134	2.0
1948.5388	6.00	-3.93	84013.250	3.0	89143.900	3.0
1948.5958	6.00	-4.94	84013.400	2.0	89143.900	3.0
1948.8617	18.01	-1.45	213873.800	2.5	219003.600	2.5
1948.8882	18.01	-2.98	206631.670	2.5	211761.400	3.5
1949.0099	6.00	-4.03	84013.250	3.0	89142.660	2.0
1949.0479	6.00	-3.91	84103.100	2.0	89232.410	1.0
1949.0669	6.00	-4.21	84013.400	2.0	89142.660	2.0
1949.0767	26.00	-3.57	48531.896	3.0	53661.130	3.0
1949.1603	26.00	-4.43	51294.262	3.0	56423.276	4.0
1949.2910	14.00	-1.75	58893.400	3.0	64022.070	3.0
1949.3367	26.02	-4.94	218923.080	3.0	224051.630	3.0
1949.3367	14.00	-.27	49399.670	1.0	54528.220	2.0
1949.3747	6.00	-4.44	84036.290	1.0	89164.740	1.0
1949.4165	6.00	-3.38	84036.400	2.0	89164.740	1.0
1949.4260	10.00	-3.49	167076.982	3.0	172205.297	3.0
1949.4895	10.00	-4.93	167076.982	3.0	172205.130	4.0
1949.4929	10.00	-3.39	167076.991	4.0	172205.130	4.0
1949.5040	7.01	-4.39	221363.980	5.0	226492.090	4.0
1949.5458	18.01	-2.60	213873.800	2.5	219001.800	1.5
1949.5610	6.00	-3.25	83926.200	3.0	89054.160	2.0
1949.5697	26.00	-2.44	44676.963	4.0	49804.900	3.0
1949.5838	14.00	-2.92	58893.400	3.0	64021.300	2.0
1949.6491	14.00	-2.59	57798.072	2.0	62925.800	1.0
1949.6788	6.00	-3.74	84016.250	4.0	89143.900	3.0
1949.8842	22.00	-3.65	34535.040	2.0	39662.150	1.0
1949.9793	29.01	-1.15	115662.770	4.0	120789.630	4.0
1950.0363	14.00	-3.45	58893.400	3.0	64020.110	4.0
1950.0934	6.00	-3.39	83747.390	2.0	88873.950	2.0
1950.1322	28.00	-1.31	44206.185	3.0	49332.643	4.0
1950.1885	18.01	-2.49	183914.560	.5	189040.870	1.5
1950.3065	14.00	-4.70	58893.400	3.0	64019.400	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1950.3407	6.00	-4.69	84036.290	1.0	89162.200	2.0
1950.3559	28.01	-4.45	133715.130	4.5	138841.000	3.5
1950.3787	28.01	-2.99	131834.940	2.5	136960.750	2.5
1950.3825	6.00	-3.89	84036.400	2.0	89162.200	2.0
1950.4864	26.00	-2.58	45061.287	3.0	50186.814	2.0
1950.5043	7.00	-4.85	110404.520	2.5	115530.000	1.5
1950.5739	20.00	-2.59	15210.063	1.0	20335.360	1.0
1950.5739	20.00	-1.27	15210.063	1.0	20335.360	1.0
1950.6105	14.00	-.60	49188.617	2.0	54313.818	1.0
1950.6946	18.01	-1.60	195281.380	.5	200406.360	.5
1950.8152	14.00	-.68	49060.601	1.0	54185.264	1.0
1950.8278	10.01	-3.45	246397.490	1.5	251522.120	1.5
1950.9268	15.01	-1.88	102799.200	1.0	107923.570	2.0
1950.9413	14.00	-1.48	57541.918	1.0	62666.250	1.0
1951.0715	28.01	-2.62	116261.810	.5	121385.800	1.5
1951.2466	28.01	-4.93	130320.940	3.5	135444.470	3.5
1951.2904	22.00	-1.93	24694.895	4.0	29818.310	3.0
1951.3761	22.00	-1.00	36132.210	4.0	41255.400	4.0
1951.3952	28.01	-2.34	101246.160	.5	106369.300	1.5
1951.4454	14.00	-2.65	57798.072	2.0	62921.080	2.0
1951.4653	26.00	-1.88	45333.834	2.0	50456.790	3.0
1951.4866	10.01	-2.61	313718.990	3.5	318841.890	4.5
1951.5018	10.01	-4.05	313718.990	3.5	318841.850	3.5
1951.6314	6.00	-2.79	83791.040	2.0	88913.560	2.0
1951.6466	10.01	-2.54	313719.370	2.5	318841.850	3.5
1951.7228	25.00	-3.07	51445.650	1.5	56567.930	1.5
1951.8523	7.00	-4.49	110402.060	4.5	115524.000	3.5
1951.8562	28.01	-2.01	101247.370	2.5	106369.300	1.5
1951.9019	10.01	-.25	301948.000	1.5	307069.810	1.5
1951.9476	26.00	-3.78	48231.330	5.0	53353.020	6.0
1951.9591	23.01	-4.73	67905.100	3.0	73026.760	2.0
1951.9591	28.00	-2.12	44206.185	3.0	49327.845	2.0
1951.9743	21.00	-4.41	32659.210	1.5	37780.830	1.5
1952.0048	6.00	-2.11	83752.410	1.0	88873.950	2.0
1952.1382	25.00	-3.34	58110.240	4.5	63231.430	4.5
1952.1420	24.00	-.32	48661.590	3.0	53782.770	4.0
1952.1954	6.00	-2.89	84015.860	5.0	89136.900	4.0
1952.2068	24.00	-3.41	24299.890	2.0	29420.900	1.0
1952.3136	22.00	-4.65	43467.550	2.0	48588.280	3.0
1952.3364	18.01	-1.35	194861.270	2.5	199981.940	1.5
1952.3441	6.00	-4.58	84016.250	4.0	89136.900	4.0
1952.3937	18.01	-1.18	195031.120	2.5	200151.640	1.5
1952.6499	7.00	-2.08	107445.622	1.5	112565.470	.5
1952.7712	7.00	-4.68	110404.470	1.5	115524.000	.5
1952.8017	18.01	.19	199959.620	2.5	205079.070	2.5
1952.8437	6.01	-1.70	178955.940	2.5	184075.280	2.5
1952.8437	6.01	-.40	178955.940	3.5	184075.280	2.5
1952.9733	17.01	-1.79	141350.000	3.0	146469.000	3.0
1953.0932	26.00	-4.85	51739.964	2.0	56858.650	2.0
1953.1069	6.01	-.56	178955.940	2.5	184074.590	1.5
1953.3817	27.00	-4.35	49197.740	4.5	54315.670	5.5
1953.3939	26.00	-4.16	46901.808	1.0	52019.706	1.0
1953.3992	28.00	-2.61	45418.858	2.0	50536.742	1.0
1953.5382	23.00	-4.03	20812.990	1.5	25930.510	1.5
1953.5458	23.00	-1.02	32988.820	3.5	38106.320	2.5
1953.8245	18.01	.33	199879.320	3.5	204996.090	3.5
1953.9448	26.00	-2.74	46720.824	4.0	51837.279	3.0
1953.9964	6.00	-3.69	84116.090	1.0	89232.410	1.0
1954.1759	23.00	-3.54	15571.900	2.5	20687.750	1.5
1954.2657	22.00	-2.62	43799.455	2.0	48915.070	2.0
1954.3000	2.00	-.51	186102.000	0.0	191218.922	0.0
1954.3352	7.00	-3.41	111143.567	.5	116259.000	.5
1954.3352	7.00	-3.90	111143.567	.5	116259.000	1.5
1954.4509	6.00	-3.88	84851.530	1.0	89966.660	2.0
1954.5132	22.00	-3.98	37743.933	3.0	42858.900	3.0
1954.5465	28.01	-2.99	94729.250	2.5	99844.130	3.5
1955.0166	13.02	-.77	208881.830	2.5	213995.480	2.5
1955.0166	13.02	.53	208881.830	2.5	213995.480	3.5
1955.0166	13.02	.37	208881.830	1.5	213995.480	2.5
1955.0663	28.01	-4.91	130321.740	5.5	135435.260	4.5
1955.1504	23.00	-4.47	34128.040	3.5	39241.340	2.5
1955.2070	7.00	-2.80	111198.848	.5	116312.000	.5
1955.2070	7.00	-3.70	111198.848	.5	116312.000	1.5
1955.2384	28.01	-1.08	100475.820	3.5	105588.890	4.5
1955.2384	10.01	-3.36	302307.750	2.5	307420.820	2.5
1955.3837	6.00	-2.42	83761.260	3.0	88873.950	2.0
1955.4946	23.00	-2.63	37025.600	3.5	42138.000	2.5
1955.5022	18.01	-2.60	213891.220	1.5	219003.600	2.5
1955.5023	23.02	-3.15	155569.100	2.5	160681.480	3.5
1955.5252	23.01	-3.84	44098.460	3.0	49210.780	3.0
1955.5826	18.01	-2.05	213891.430	2.5	219003.600	2.5
1955.7280	7.01	-4.84	221380.300	3.0	226492.090	4.0
1955.8007	28.01	.11	98969.440	5.5	104081.040	4.5
1955.9193	28.01	-.52	101258.010	1.5	106369.300	1.5
1955.9575	6.00	-3.12	84121.220	0.0	89232.410	1.0
1956.1681	25.01	-3.83	71263.920	1.0	76374.560	2.0
1956.1911	18.01	-1.65	213891.220	1.5	219001.800	1.5
1956.2714	18.01	-.90	213891.430	2.5	219001.800	1.5
1956.3273	26.00	-4.20	46727.055	2.0	51837.279	3.0
1956.4054	23.02	-3.27	156130.000	4.5	161240.020	5.5
1956.5816	10.01	-4.66	313718.990	3.5	318828.550	2.5
1956.5816	10.01	-4.08	313718.990	3.5	318828.550	3.5
1956.5930	28.01	-1.31	100389.520	2.5	105499.050	3.5
1956.7270	10.01	-3.28	313719.370	2.5	318828.550	2.5
1956.7270	10.01	-2.27	313719.370	2.5	318828.550	3.5
1956.7960	15.00	-1.54	76425.200	2.5	81534.200	3.5
1956.8918	18.01	-2.20	195297.610	1.5	200406.360	.5
1956.9194	7.00	-1.12	107628.283	1.5	112736.961	1.5
1956.9875	15.00	-2.72	76192.300	1.5	81300.800	1.5
1957.1638	26.01	-4.79	45079.910	2.5	50187.950	3.5
1957.1852	7.00	-2.18	111204.016	2.5	116312.000	1.5
1957.1852	7.00	-2.73	111204.016	2.5	116312.000	2.5
1957.2519	27.00	-3.51	48828.870	2.5	53936.680	2.5
1957.3071	28.00	-2.02	44206.185	3.0	49313.851	3.0
1957.3768	10.00	-1.29	158601.115	2.0	163708.599	2.0
1957.4163	26.00	-4.58	45726.104	5.0	50833.485	5.0
1957.5738	24.00	-3.44	50102.040	3.0	55209.010	4.0
1957.7133	10.00	-.95	158601.115	2.0	163707.721	1.0
1957.8460	6.00	-4.86	84036.400	2.0	89142.660	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1957.8874	7.00	-3.17	111198.848	.5	116305.000	.5
1957.8874	7.00	-3.26	111198.848	.5	116305.000	1.5
1957.9380	28.01	-3.45	133734.980	3.5	138841.000	3.5
1958.0186	27.00	-4.68	46454.950	1.5	51560.760	2.5
1958.0454	28.01	-4.97	133735.260	2.5	138841.000	3.5
1958.0478	8.00	-2.31	103625.766	1.0	108731.500	0.0
1958.0478	8.00	-1.96	103625.766	1.0	108731.500	1.0
1958.0478	8.00	-2.06	103625.766	1.0	108731.500	2.0
1958.1221	6.00	-2.78	81311.010	0.0	86416.550	1.0
1958.1413	28.01	-4.40	67880.160	2.5	72985.650	1.5
1958.1835	10.01	.28	303071.840	2.5	308177.220	1.5
1958.1846	8.00	-2.43	103626.123	2.0	108731.500	1.0
1958.1846	8.00	-1.84	103626.123	2.0	108731.500	2.0
1958.1846	8.00	-1.64	103626.123	2.0	108731.500	3.0
1958.2525	6.00	-2.36	81343.990	2.0	86449.190	3.0
1958.3599	28.01	-.08	122790.410	4.5	127895.330	3.5
1958.3765	8.00	-2.78	103626.623	3.0	108731.500	2.0
1958.3765	8.00	-1.94	103626.623	3.0	108731.500	3.0
1958.3765	8.00	-1.35	103626.623	3.0	108731.500	4.0
1958.4213	28.01	-4.69	53601.190	1.5	58705.950	1.5
1958.4328	29.01	-1.73	139710.200	2.0	144814.930	3.0
1958.4750	26.00	-3.00	40404.492	1.0	45509.112	1.0
1958.5594	15.00	-2.93	65585.000	2.5	70689.400	3.5
1958.5824	7.01	-4.27	221380.300	3.0	226484.640	2.0
1958.6131	23.00	-2.49	15724.220	3.5	20828.480	2.5
1958.6158	22.00	-1.09	36065.750	3.0	41170.003	3.0
1958.6162	26.00	-3.29	46600.800	1.0	51705.052	2.0
1958.6408	14.00	-4.44	59191.072	2.0	64295.260	3.0
1958.6592	22.00	-3.83	37976.780	2.0	43080.920	2.0
1958.6592	21.00	-4.89	31172.620	1.5	36276.760	1.5
1958.7283	21.00	-4.38	32751.540	3.5	37855.500	2.5
1958.9083	7.00	-1.61	107588.469	.5	112691.960	.5
1958.9516	17.00	-.94	95786.752	2.5	100890.130	2.5
1958.9893	28.01	-3.81	128799.720	.5	133903.000	1.5
1959.0572	17.00	-.08	95786.752	2.5	100889.855	3.5
1959.0603	7.00	-2.84	111060.905	.5	116164.000	.5
1959.0603	7.00	-3.01	111060.905	.5	116164.000	1.5
1959.1121	28.01	-4.95	116087.380	4.5	121190.340	4.5
1959.1927	24.00	-4.67	50102.040	3.0	55204.790	3.0
1959.2803	26.00	-2.30	40231.312	2.0	45333.834	2.0
1959.3348	7.01	-3.23	221380.300	3.0	226482.680	3.0
1959.3655	15.00	-2.69	72741.600	1.5	77843.900	2.5
1959.3901	17.00	-4.21	94663.670	1.5	99765.906	2.5
1959.4051	26.00	-4.68	49135.003	3.0	54237.200	4.0
1959.4270	17.00	-1.95	95400.731	2.5	100502.871	1.5
1959.5192	15.00	-3.72	76021.600	1.5	81123.500	2.5
1959.5230	18.01	-3.41	206623.800	3.5	211725.690	3.5
1959.5575	18.01	-4.83	206623.800	3.5	211725.600	2.5
1959.5959	15.00	-.37	72741.600	1.5	77843.300	1.5
1959.6586	22.00	-4.22	37622.573	3.0	42724.110	2.0
1959.7984	14.00	-1.55	56780.427	1.0	61881.600	1.0
1959.8711	7.00	-3.14	111204.016	2.5	116305.000	1.5
1959.8841	7.00	-4.41	110521.050	1.5	115622.000	2.5
1960.1300	23.00	-3.18	20830.200	.5	25930.510	1.5
1960.3184	27.00	-4.78	49847.080	2.5	54946.900	2.5
1960.7378	7.00	-3.10	111213.271	1.5	116312.000	.5
1960.7378	7.00	-3.00	111213.271	1.5	116312.000	1.5
1960.8028	24.00	-4.09	35807.900	2.0	40906.460	1.0
1960.8336	18.00	-3.14	117183.654	2.0	122282.134	2.0
1960.8836	18.01	-1.01	194861.270	2.5	199959.620	2.5
1960.9144	18.01	-.99	199879.320	3.5	204977.590	2.5
1960.9259	10.01	.27	301801.090	3.5	306899.330	2.5
1961.0020	18.00	-3.39	118407.494	1.0	123505.536	2.0
1961.0382	14.00	-2.70	48264.292	3.0	53362.240	3.0
1961.0412	18.00	-2.78	120188.340	1.0	125286.280	1.0
1961.0567	21.00	-1.52	30573.100	.5	35671.000	1.5
1961.1644	18.00	-1.74	120188.660	2.0	125286.280	1.0
1961.2533	22.00	-4.22	34204.971	4.0	39302.360	4.0
1961.3106	22.00	-3.72	42184.660	4.0	47281.900	3.0
1961.3298	23.00	-4.22	34030.040	1.5	39127.230	1.5
1961.3530	18.01	-2.94	199981.940	1.5	205079.070	2.5
1961.3852	22.00	-6.31	12118.394	4.0	17215.440	5.0
1961.4221	7.00	-3.86	110521.050	1.5	115618.000	2.5
1961.4414	15.00	-3.27	76425.200	2.5	81522.100	2.5
1961.4464	14.00	-3.93	59037.043	4.0	64133.930	4.0
1961.5569	18.01	-.51	199959.620	2.5	205056.220	1.5
1961.5730	10.00	-2.70	165912.782	1.0	171009.340	1.0
1961.6212	7.00	-3.99	111143.567	.5	116240.000	1.5
1961.8340	6.00	-4.72	83986.220	3.0	89082.100	3.0
1961.8802	28.01	-4.31	128827.150	3.5	133922.910	4.5
1961.9226	6.00	-3.73	83986.450	4.0	89082.100	3.0
1961.9996	28.01	-1.77	122790.410	4.5	127885.860	4.5
1962.1074	18.01	-2.58	186074.350	2.5	191169.520	1.5
1962.2503	14.00	-1.45	56503.346	2.0	61598.145	2.0
1962.2730	25.00	-4.85	58136.690	3.5	63231.430	4.5
1962.5214	7.00	-2.56	111060.905	.5	116155.000	.5
1962.5214	7.00	-2.55	111060.905	.5	116155.000	1.5
1962.5357	14.00	.23	56503.346	2.0	61597.404	3.0
1962.5503	18.01	-4.80	206631.670	2.5	211725.690	3.5
1962.5773	28.01	-1.26	115956.710	2.5	121050.660	2.5
1962.5850	18.01	-3.52	206631.670	2.5	211725.600	2.5
1962.6189	7.00	-3.23	111165.158	1.5	116259.000	.5
1962.6189	7.00	-3.03	111165.158	1.5	116259.000	1.5
1962.6189	7.00	-2.82	111165.158	1.5	116259.000	2.5
1962.6814	6.00	-4.49	83986.220	3.0	89079.900	2.0
1962.7122	13.01	-2.15	142958.900	1.0	148052.500	1.0
1962.7777	6.00	-4.20	83820.130	1.0	88913.560	2.0
1962.8205	18.00	-1.82	116942.815	3.0	122036.134	4.0
1962.8779	28.01	-3.05	116087.380	4.5	121180.550	5.5
1962.9164	55.00	-2.34	22588.890	0.0	27683.350	0.0
1962.9511	26.00	-4.67	48475.740	3.0	53568.720	2.0
1963.0205	15.00	-4.50	70391.600	2.5	75484.400	2.5
1963.0745	28.01	-2.57	116468.400	1.5	121561.060	.5
1963.1709	18.00	-2.84	119566.110	3.0	124658.520	2.0
1963.2117	26.00	-3.67	46744.975	3.0	51837.279	3.0
1963.2711	28.01	-4.42	96052.480	2.5	101144.630	3.5
1963.4022	28.01	-.04	98561.220	2.5	103653.030	3.5
1963.4334	7.00	-3.48	111213.271	1.5	116305.000	.5
1963.4334	7.00	-2.56	111213.271	1.5	116305.000	1.5
1963.5383	26.00	-1.85	39969.830	3.0	45061.287	3.0
1963.7956	6.00	-2.79	81325.760	1.0	86416.550	1.0
1963.8766	27.00	-3.89	47612.180	1.5	52702.760	1.5
1963.8766	18.01	.09	183675.570	3.5	188766.150	2.5
1964.2856	22.00	-4.09	43583.140	3.0	48672.660	4.0
1964.3280	56.01	.65	61636.000	0.0	66726.799	0.0
1964.4863	13.01	-3.90	142179.800	1.0	147268.800	1.0
1964.5017	25.00	-3.77	51100.490	4.5	56189.450	4.5
1964.5906	6.00	-4.31	83747.390	2.0	88836.120	3.0
1964.6793	26.00	-4.50	49297.660	1.0	54386.160	1.0
1964.7403	18.00	-1.82	118469.117	2.0	123557.459	3.0
1964.7805	14.00	-3.68	51612.012	0.0	56700.250	1.0
1965.0076	18.01	-.71	196633.020	2.5	201720.670	1.5
1965.0327	18.00	-3.88	116999.389	2.0	122086.974	2.0
1965.1814	25.00	-1.17	57305.620	3.5	62392.820	4.5
1965.1853	28.01	-.59	99559.330	2.5	104646.520	3.5
1965.1945	22.00	-2.65	36000.144	4.0	41087.310	3.0
1965.1968	23.00	-.87	33155.300	4.5	38242.460	3.5
1965.4248	27.00	-4.57	48615.560	2.5	53702.130	3.5
1965.5253	28.01	-4.43	129294.510	2.5	134380.820	3.5
1965.6451	13.01	-.10	144780.200	2.0	149866.200	3.0
1965.6992	28.01	-.86	115956.710	2.5	121042.570	1.5
1965.7185	28.01	-4.34	115956.710	2.5	121042.520	1.5
1965.7224	28.01	-4.77	128837.110	5.5	133922.910	4.5
1965.7502	22.00	-3.51	34700.212	5.0	39785.940	4.0
1965.8298	14.00	-2.06	57583.657	4.0	62669.179	4.0
1965.8356	14.00	-3.24	57583.657	4.0	62669.164	3.0
1966.1082	17.00	-.05	95786.752	2.5	100871.554	3.5
1966.3541	14.00	-3.34	57583.657	4.0	62667.823	3.0
1966.4222	21.00	-4.36	32696.840	2.5	37780.830	1.5
1966.5808	18.01	-4.43	186890.950	2.5	191974.530	1.5
1966.6775	6.00	-2.01	83877.310	1.0	88960.640	0.0
1966.7549	24.00	-3.27	28679.430	1.0	33762.560	0.0
1966.8323	24.00	-3.10	49588.970	1.0	54671.900	1.0
1966.8401	6.00	-1.89	83791.040	2.0	88873.950	2.0
1967.1264	24.00	-.20	48558.570	2.0	53640.740	3.0
1967.1396	28.00	-1.52	48671.900	3.0	53754.036	2.0
1967.1879	26.00	-3.66	46672.523	0.0	51754.534	1.0
1967.2696	25.00	-4.10	57705.830	.5	62787.630	1.5
1967.2735	27.00	-1.84	45971.190	3.5	51052.980	3.5
1967.3238	18.01	-3.28	213859.240	5.5	218940.900	4.5
1967.3238	18.01	-1.47	213859.240	5.5	218940.900	5.5
1967.3664	18.01	-1.55	213859.350	4.5	218940.900	4.5
1967.3664	18.01	-3.28	213859.350	4.5	218940.900	5.5
1967.6684	28.01	-3.83	128822.230	1.5	133903.000	1.5
1967.7730	18.01	-4.91	213860.400	4.5	218940.900	4.5
1967.7730	18.01	-3.17	213860.400	4.5	218940.900	5.5
1967.9009	6.00	-3.07	81105.030	1.0	86185.200	2.0
1967.9202	26.00	-3.12	47177.210	1.0	52257.330	0.0
1968.0713	28.01	-4.94	130320.940	3.5	135400.670	3.5
1968.2534	28.01	-4.96	122140.710	4.5	127219.970	3.5
1968.2999	18.01	-.16	194800.180	4.5	199879.320	3.5
1968.3279	17.00	-1.27	95786.752	2.5	100865.820	2.5
1968.5061	17.00	-2.23	95786.752	2.5	100865.360	1.5
1968.5309	26.00	-1.43	48531.896	3.0	53610.440	4.0
1968.6363	26.00	-3.00	47136.058	2.0	52214.330	1.0
1968.7019	14.00	-2.43	57372.297	2.0	62450.400	1.0
1968.7805	18.01	-1.36	208803.240	4.5	213881.140	5.5
1968.7805	18.01	-3.18	208803.240	5.5	213881.140	5.5
1968.7960	10.01	-2.14	302816.980	1.5	307894.840	2.5
1968.8034	14.00	-3.21	59109.959	3.0	64187.800	3.0
1968.8116	18.01	-1.29	208803.240	5.5	213881.060	6.5
1968.8581	6.00	-4.21	84013.400	2.0	89091.100	1.0
1968.8620	6.00	-1.37	83497.620	2.0	88575.310	3.0
1968.8930	28.01	-.65	112686.300	2.5	117763.910	1.5
1969.0326	6.00	-1.54	83497.620	2.0	88574.870	3.0
1969.0404	6.00	-3.28	83497.620	2.0	88574.850	2.0
1969.0714	7.00	-3.93	110544.850	2.5	115622.000	2.5
1969.1652	14.00	-4.90	59110.892	2.0	64187.800	3.0
1969.2770	18.01	-.51	194883.000	3.5	199959.620	2.5
1969.3592	14.00	-2.36	57798.072	2.0	62874.480	2.0
1969.4865	28.01	-.90	115827.120	3.5	120903.200	3.5
1969.5136	28.01	-4.72	128853.870	2.5	133929.880	3.5
1969.5330	28.01	-5.00	130324.710	4.5	135400.670	3.5
1969.5369	7.00	-4.02	110521.050	1.5	115597.000	1.5
1969.5951	28.01	-.29	100592.980	3.5	105668.780	2.5
1969.7193	6.00	-3.40	83838.080	2.0	88913.560	2.0
1969.9599	6.00	-2.82	83761.260	3.0	88836.120	3.0
1969.9669	7.00	-2.83	111165.158	1.5	116240.000	1.5
1969.9669	7.00	-3.59	111165.158	1.5	116240.000	2.5
1970.1850	18.01	-3.83	199981.940	1.5	205056.220	1.5
1970.3598	29.01	-.30	139741.100	3.0	144814.930	3.0
1970.3637	24.00	-3.53	49598.080	2.0	54671.900	1.0
1970.4880	23.00	-3.81	34167.840	2.5	39241.340	2.5
1970.5035	28.01	-3.83	116312.340	1.5	121385.800	1.5
1970.6239	7.00	-4.30	110544.850	2.5	115618.000	1.5
1970.6239	7.00	-4.41	110544.850	2.5	115618.000	2.5
1970.6239	18.01	-.21	201030.300	.5	206103.450	1.5
1970.7001	28.00	-2.99	44112.192	1.0	49185.146	2.0
1970.7482	22.00	-3.94	41457.620	3.0	46530.450	4.0
1970.7599	15.01	-2.50	124947.600	2.0	130020.400	3.0
1970.7599	15.00	-2.34	75353.400	1.5	80426.200	1.5
1970.8221	29.01	-.22	118484.000	3.0	123556.640	2.0
1970.8532	6.00	-3.09	81343.990	2.0	86416.550	1.0
1970.9619	22.00	-4.74	38159.710	3.0	43231.990	4.0
1970.9814	29.01	-4.69	133826.200	2.0	138898.430	1.0
1970.9934	13.00	-2.19	40271.965	.5	45344.164	1.5
1971.0941	23.00	-1.73	17242.050	5.5	22313.990	5.5
1971.1601	18.01	-.28	199879.320	3.5	204951.090	3.5
1971.4322	27.00	-1.78	45971.190	3.5	51042.260	2.5
1971.7199	18.01	-4.16	208803.240	4.5	213873.570	3.5
1971.8545	12.00	-1.20	54248.809	0.0	59318.793	1.0
1971.9377	23.01	-4.16	32299.240	1.0	37369.010	2.0
1972.1303	20.00	-1.60	41679.008	1.0	46748.283	1.0
1972.1984	6.00	-.32	72610.720	2.0	77679.820	2.0
1972.2062	14.00	-1.77	57450.580	3.0	62519.660	2.0
1972.2151	17.00	-1.10	97149.323	.5	102218.380	1.5
1972.2373	28.01	-4.00	128853.910	4.5	133922.910	4.5
1972.2509	14.00	.04	49188.617	2.0	54257.582	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1972.2957	6.00	-4.91	84013.250	3.0	89082.100	3.0
1972.3513	12.00	-1.33	54250.086	1.0	59318.793	1.0
1972.3583	12.00	-1.02	54250.086	1.0	59318.775	2.0
1972.4707	15.00	-1.24	75104.600	.5	80173.000	.5
1972.6498	6.00	-3.91	83986.220	3.0	89054.160	2.0
1972.6926	28.01	-.46	116732.510	2.5	121800.340	1.5
1972.7331	13.00	-1.94	40277.872	1.5	45345.598	2.5
1972.8639	28.01	-4.54	128862.490	4.5	133929.880	3.5
1972.8872	18.01	-3.26	213873.570	3.5	218940.900	4.5
1972.9379	23.00	-2.41	34529.810	4.5	39597.010	4.5
1973.1520	6.00	-4.11	84013.250	3.0	89079.900	2.0
1973.2097	26.00	-4.81	48702.518	4.0	53769.020	4.0
1973.2915	13.00	-2.89	40277.872	1.5	45344.164	1.5
1973.3246	28.00	-3.32	49185.146	2.0	54251.353	3.0
1973.3390	27.00	-3.41	47393.930	2.5	52460.100	2.5
1973.3480	26.00	-3.65	45913.480	3.0	50979.627	4.0
1973.3791	12.00	-2.51	54252.726	2.0	59318.793	1.0
1973.3861	12.00	-1.50	54252.726	2.0	59318.775	2.0
1973.3904	12.00	-.58	54252.726	2.0	59318.764	3.0
1973.4637	6.00	-4.54	84016.250	4.0	89082.100	3.0
1973.5758	17.00	-1.02	94468.857	.5	99534.419	.5
1973.6417	28.00	-1.67	44206.185	3.0	49271.578	3.0
1973.6682	28.00	-3.70	45281.152	3.0	50346.477	2.0
1973.7754	10.01	-3.68	303071.840	2.5	308136.890	1.5
1973.7870	22.00	-4.22	41585.240	3.0	46650.260	3.0
1973.7992	18.00	-3.62	118870.981	0.0	123935.970	1.0
1973.8178	28.00	-1.79	44262.619	2.0	49327.560	3.0
1973.9000	6.00	-2.74	83848.830	3.0	88913.560	2.0
1974.0287	15.00	-1.47	75484.400	2.5	80548.800	2.5
1974.0326	28.01	-3.39	131834.940	2.5	136899.330	1.5
1974.0949	28.01	.03	122821.630	5.5	127885.860	4.5
1974.3105	7.00	-1.91	107628.283	1.5	112691.960	.5
1974.3327	6.00	-1.23	81325.760	1.0	86389.380	2.0
1974.3842	28.00	-1.21	47208.228	1.0	52271.716	2.0
1974.4029	28.01	-4.87	110021.920	4.5	115085.360	3.5
1974.5375	7.00	-2.92	111060.905	.5	116124.000	.5
1974.5375	7.00	-3.22	111060.905	.5	116124.000	1.5
1974.5667	26.01	-4.33	45079.910	2.5	50142.930	2.5
1974.6213	28.01	-4.23	128867.000	3.5	133929.880	3.5
1974.8359	25.00	-3.98	57705.830	.5	62768.160	.5
1974.8749	23.00	-4.75	37342.660	2.5	42404.890	3.5
1974.9061	24.00	-.18	44259.360	3.0	49321.510	2.0
1974.9880	18.01	-.77	189934.550	.5	194996.490	1.5
1974.9958	10.01	-.15	302961.070	1.5	308022.990	.5
1975.0465	7.00	-4.37	110473.210	4.5	115535.000	3.5
1975.0816	13.01	-4.52	134181.200	3.0	139242.900	3.0
1975.0816	13.01	-1.20	134181.200	4.0	139242.900	3.0
1975.0816	13.01	-.97	134181.200	4.0	139242.900	3.0
1975.1129	23.00	-4.19	34065.610	2.5	39127.230	1.5
1975.1402	28.01	-3.85	122270.050	3.5	127331.600	2.5
1975.1546	14.00	-1.46	56780.427	1.0	61841.940	2.0
1975.3743	25.00	-3.95	57512.160	1.5	62573.110	1.5
1975.5121	17.00	-.01	82918.893	2.5	87979.490	3.5
1975.5188	27.00	-3.54	50105.050	1.5	55165.630	2.5
1975.5344	18.00	-3.71	118407.494	1.0	123468.034	1.0
1975.6859	7.00	-2.71	111198.848	.5	116259.000	.5
1975.6859	7.00	-4.42	111198.848	.5	116259.000	1.5
1975.6878	26.00	-1.74	44676.963	4.0	49737.110	5.0
1975.8077	18.01	-.39	213881.060	6.5	218940.900	5.5
1975.8389	18.01	-.47	213881.140	5.5	218940.900	4.5
1975.8389	18.01	-2.28	213881.140	5.5	218940.900	5.5
1975.9639	28.01	-4.77	110n21.920	4.5	115081.360	4.5
1976.0845	14.00	-1.10	56503.346	2.0	61562.477	3.0
1976.2490	28.00	-.15	51124.800	3.0	56183.510	4.0
1976.3389	18.01	.97	199879.320	3.5	204937.800	4.5
1976.4913	28.00	-1.52	47139.392	2.0	52197.482	3.0
1976.5265	28.01	-1.15	122837.330	4.5	127895.330	3.5
1976.5374	26.00	-3.78	49433.108	2.0	54491.080	3.0
1976.5616	27.00	-4.31	49847.080	2.5	54904.990	2.5
1976.6633	17.00	-.46	83130.900	1.5	88188.550	1.5
1976.8000	22.00	-4.41	37976.780	2.0	43034.080	1.0
1976.8274	24.00	-3.33	49588.970	1.0	54646.200	0.0
1976.8313	18.01	-1.60	194822.100	3.5	199879.320	3.5
1976.8547	18.01	-4.07	208803.240	5.5	213860.400	4.5
1976.9212	28.01	-2.84	95332.530	2.5	100389.520	2.5
1976.9564	12.02	-1.83	581734.700	1.0	586791.600	2.0
1977.0698	28.01	-4.88	94283.940	4.5	99340.550	3.5
1977.2262	18.00	-1.45	120230.070	2.0	125286.280	1.0
1977.2485	10.00	-2.12	158601.115	2.0	163657.268	1.0
1977.2653	18.01	-2.45	208803.240	4.5	213859.350	4.5
1977.2653	18.01	-4.18	208803.240	5.5	213859.350	4.5
1977.3083	18.01	-4.19	208803.240	4.5	213859.240	5.5
1977.3083	18.01	-2.37	208803.240	5.5	213859.240	5.5
1977.3521	14.00	-3.02	59131.912	4.0	64187.800	3.0
1977.4257	10.01	-2.61	276276.850	1.5	281332.550	.5
1977.4664	17.00	-1.79	91538.500	1.5	96594.096	.5
1977.4804	10.01	-2.63	302839.280	2.5	307894.840	2.5
1977.4925	26.00	-4.72	49627.861	4.0	54683.390	4.0
1977.6772	20.00	-1.84	15315.943	2.0	20371.000	3.0
1977.6772	20.00	-.53	15315.943	2.0	20371.000	3.0
1977.7057	7.00	-2.91	111204.016	2.5	116259.000	1.5
1977.7057	7.00	-2.25	111204.016	2.5	116259.000	2.5
1977.7269	18.01	-.29	183985.940	1.5	189040.870	1.5
1977.9108	22.00	-1.92	36200.940	5.0	41255.400	4.0
1977.9147	28.01	-4.16	114858.880	5.5	119913.330	4.5
1978.0242	26.02	-4.29	219004.530	4.0	224058.700	4.0
1978.0282	28.01	.51	122812.970	3.5	127867.130	4.5
1978.1613	6.00	-4.59	83820.130	1.0	88873.950	2.0
1978.1652	6.00	-.98	81343.990	2.0	86397.800	3.0
1978.4548	28.01	-4.36	132225.150	1.5	137278.220	1.5
1978.4744	28.01	-4.26	128869.890	5.5	133922.910	4.5
1978.5136	14.00	-3.81	59190.460	1.0	64243.380	2.0
1978.7532	14.00	-3.05	59191.072	2.0	64243.380	2.0
1978.7955	28.01	-4.01	73903.250	.5	78955.450	1.5
1979.0658	6.00	-1.53	81311.010	0.0	86362.520	1.0
1979.1050	25.01	-3.97	71323.150	2.0	76374.560	2.0
1979.1285	23.01	-2.96	44159.430	2.0	49210.780	3.0
1979.1955	26.00	-1.52	39625.784	4.0	44676.963	4.0
1979.2159	7.00	-2.09	111260.873	3.5	116312.000	2.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
1979.3440	25.00	-3.47	51305.410	2.5	56356.210	3.5
1979.3480	6.00	-4.69	83740.060	0.0	88790.850	1.0
1979.3480	7.00	-4.81	110473.210	4.5	115524.000	3.5
1979.4988	26.00	-4.11	48231.330	5.0	53281.735	5.0
1979.5086	19.00	-2.11	28127.850	2.5	33178.230	1.5
1979.5282	28.01	-.71	100389.520	2.5	105439.850	1.5
1979.5478	26.00	-2.89	47017.170	3.0	52067.450	2.0
1979.5518	19.00	-1.96	28127.850	3.5	33178.120	2.5
1979.5518	19.00	-3.26	28127.850	2.5	33178.120	2.5
1979.6066	55.00	-1.28	22631.830	0.0	27683.339	0.0
1979.6851	11.00	-1.45	35040.380	.5	40090.310	1.5
1979.7544	26.00	-3.57	46720.824	4.0	51770.577	3.0
1979.7634	10.01	-4.33	277325.600	1.5	282375.330	1.5
1979.8575	27.00	-4.37	49847.080	2.5	54896.570	3.5
1979.9085	28.01	-3.80	111783.790	3.5	116833.150	4.5
1979.9328	18.00	-3.34	118459.662	1.0	123508.960	0.0
1979.9987	28.01	-4.34	128853.870	2.5	133903.000	1.5
1980.0199	26.00	-2.49	42911.897	5.0	47960.973	4.0
1980.0340	14.03	.63	322312.930	.5	327361.970	1.5
1980.0368	17.00	-3.14	97184.277	3.5	102233.310	2.5
1980.1242	27.00	-2.86	40827.770	1.5	45876.580	2.5
1980.1398	10.01	-.15	303928.100	.5	308976.870	.5
1980.1544	14.00	-4.59	57372.297	2.0	62421.030	3.0
1980.2340	28.01	-.04	122837.330	4.5	127885.860	4.5
1980.2340	27.00	-2.50	45876.580	2.5	50925.110	1.5
1980.2654	28.01	-4.99	116145.690	3.5	121194.140	2.5
1980.2850	15.00	-3.46	76021.600	1.5	81070.000	1.5
1980.2850	55.00	-1.47	22588.890	0.0	27638.668	0.0
1980.4796	28.00	-1.61	51124.800	3.0	56172.704	3.0
1980.5282	10.01	.55	302192.920	4.5	307240.700	3.5
1980.5479	28.01	-.15	122847.600	3.5	127895.330	3.5
1980.5835	17.00	-1.96	94663.670	1.5	99711.309	.5
1980.6538	11.00	-1.19	35042.850	1.5	40090.310	2.5
1980.6538	11.00	-2.15	35042.850	1.5	40090.310	1.5
1980.7480	28.01	-4.74	111120.540	1.5	116167.760	1.5
1980.8006	26.00	-3.70	55124.974	3.0	60172.060	4.0
1980.8696	6.00	-3.16	83747.390	2.0	88794.300	2.0
1980.9796	28.01	-4.53	116145.690	3.5	121192.320	3.5
1981.0267	18.01	-1.12	196305.040	3.5	201351.550	2.5
1981.1896	7.00	-3.31	111060.905	.5	116107.000	.5
1981.1896	7.00	-2.80	111060.905	.5	116107.000	1.5
1981.2347	10.01	-4.84	319111.700	3.5	324157.680	2.5
1981.2661	23.01	-4.84	67905.100	3.0	72951.000	4.0
1981.2763	18.00	-2.03	118459.662	1.0	123505.536	2.0
1981.2779	28.01	-3.99	95573.390	3.5	100619.260	4.5
1981.2818	10.01	-2.74	302961.070	1.5	308006.930	.5
1981.2976	23.02	-3.52	155981.500	3.5	161027.320	4.5
1981.3333	7.00	-3.02	111213.271	1.5	116259.000	.5
1981.3333	7.00	-3.40	111213.271	1.5	116259.000	1.5
1981.3333	7.00	-2.23	111213.271	1.5	116259.000	2.5
1981.4114	29.01	-2.15	115639.020	2.0	120684.550	3.0
1981.4664	6.00	-2.07	81343.990	2.0	86389.380	2.0
1981.5018	20.00	.33	37298.287	2.0	42343.587	3.0
1981.5646	25.00	-3.64	51445.650	1.5	56490.790	2.5
1981.5881	6.00	-1.92	83791.040	2.0	88836.120	3.0
1981.6082	26.00	-4.76	48702.518	4.0	53747.547	3.0
1981.7374	28.01	-3.68	115000.250	3.5	120044.950	4.5
1981.7476	18.00	-.66	112138.980	2.0	117183.654	2.0
1981.7767	15.01	-1.11	125129.700	3.0	130174.300	2.0
1981.7964	28.01	-4.42	122175.420	2.5	127219.970	3.5
1981.8408	22.00	-4.73	20062.980	1.0	25107.417	2.0
1981.9339	9.01	-.51	264451.000	4.0	269495.200	3.0
1981.9339	9.01	-1.21	264451.000	4.0	269495.200	4.0
1981.9339	9.01	-.34	264451.000	5.0	269495.200	4.0
1981.9731	9.01	-1.08	264451.100	2.0	269495.200	2.0
1981.9731	9.01	-2.08	264451.100	1.0	269495.200	2.0
1981.9731	9.01	-2.08	264451.100	2.0	269495.200	3.0
1981.9731	9.01	-.70	264451.100	3.0	269495.200	2.0
1981.9731	9.01	-1.06	264451.100	3.0	269495.200	3.0
1981.9731	9.01	-2.38	264451.100	3.0	269495.200	4.0
1982.0753	6.00	-1.30	81325.760	1.0	86369.600	2.0
1982.1618	10.01	.03	301855.710	2.5	306899.330	2.5
1982.2003	26.00	-4.14	46727.055	2.0	51770.577	3.0
1982.2247	6.00	-2.94	83747.390	2.0	88790.850	1.0
1982.2408	26.00	-3.22	45608.341	6.0	50651.760	7.0
1982.2710	26.00	-4.44	51739.964	2.0	56783.306	3.0
1982.3571	14.00	-3.32	56780.427	1.0	61823.550	2.0
1982.3791	18.00	-1.55	113426.050	2.0	118469.117	2.0
1982.4448	17.01	-3.94	126725.100	1.0	131768.000	2.0
1982.4802	26.00	-4.19	29320.050	1.0	34362.860	1.0
1982.4802	26.00	-3.36	47171.520	0.0	52214.330	1.0
1982.6414	18.01	-.58	200151.640	1.5	205194.040	1.5
1982.6806	17.01	-2.60	126725.100	1.0	131767.400	0.0
1982.7082	23.01	-3.60	44159.430	2.0	49201.660	2.0
1982.7672	28.01	-4.91	116275.810	3.5	121317.890	3.5
1983.1322	7.00	-3.16	111198.848	.5	116240.000	1.5
1983.2864	6.00	-4.91	84013.400	2.0	89054.160	2.0
1983.4029	17.00	-4.07	94314.206	1.5	99354.670	1.5
1983.4265	7.00	-3.69	111271.596	.5	116312.000	.5
1983.4265	7.00	-2.59	111271.596	.5	116312.000	1.5
1983.7004	17.00	-2.09	96494.722	4.5	101534.430	4.5
1983.7004	17.00	-.36	96494.722	4.5	101534.430	5.5
1983.9949	21.00	-1.27	30706.610	1.5	35745.570	2.5
1984.1996	6.00	-3.66	83752.410	1.0	88790.850	1.0
1984.2075	18.00	-1.38	120753.520	3.0	125791.940	2.0
1984.2705	28.01	-2.00	122847.600	3.5	127885.860	4.5
1984.3324	17.00	-1.17	97184.277	3.5	102222.380	3.5
1984.4506	17.00	-.23	97184.277	3.5	102222.080	4.5
1984.4517	56.01	-.28	61636.000	0.0	66675.175	0.0
1984.4545	22.00	-2.02	36132.210	4.0	41170.003	3.0
1984.4912	17.02	-4.98	198983.900	1.5	204021.600	.5
1984.5238	26.00	-4.62	48122.913	3.0	53160.530	3.0
1984.5423	14.02	-1.31	249817.850	4.0	254855.420	3.0
1984.5502	6.00	-1.53	83798.570	4.0	88836.120	3.0
1984.5699	24.00	-4.50	40930.310	1.0	45967.810	2.0
1984.5777	14.02	-1.20	249817.940	4.0	254855.420	3.0
1984.7196	26.00	-3.68	47177.210	1.0	52214.330	1.0
1984.8615	6.00	-2.10	81325.760	1.0	86362.520	1.0
1984.9757	18.01	.52	199959.620	2.5	204996.090	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1984.9958	18.00	-2.97	118469.117	2.0	123505.536	2.0
1985.0625	6.00	-1.53	83877.310	1.0	88913.560	2.0
1985.1295	28.01	-3.46	115108.090	2.5	120144.170	2.5
1985.1453	18.01	-1.29	196315.510	2.5	201351.550	2.5
1985.1673	7.00	-3.24	111204.016	2.5	116240.000	1.5
1985.1673	7.00	-2.54	111204.016	2.5	116240.000	2.5
1985.2123	6.00	-2.97	83838.080	2.0	88873.950	2.0
1985.2438	28.01	-2.31	101247.370	2.5	106283.160	2.5
1985.3092	20.00	.36	31539.495	1.0	36575.119	2.0
1985.3581	28.01	-.48	113407.310	2.5	118442.810	1.5
1985.4961	29.01	-3.61	128558.900	3.0	133594.050	3.0
1985.6144	28.01	-3.70	116145.690	3.5	121180.540	4.5
1985.6889	18.00	-2.55	119023.699	4.0	124058.360	3.0
1985.6889	18.00	-1.02	119023.699	4.0	124058.360	4.0
1985.7328	24.00	-4.54	28637.000	3.0	33671.550	3.0
1985.7907	17.00	-2.58	97184.277	3.5	102218.680	2.5
1985.8708	26.02	-4.08	219004.530	4.0	224038.730	5.0
1985.9103	28.01	-.60	113408.710	1.5	118442.810	1.5
1986.0720	24.00	-.26	48507.560	1.0	53541.250	2.0
1986.1028	18.00	-3.29	113426.050	2.0	118459.662	1.0
1986.1051	17.00	-1.90	94732.300	3.5	99765.906	2.5
1986.1734	17.00	-2.71	95313.749	1.5	100347.182	2.5
1986.1849	7.00	-3.55	111271.596	.5	116305.000	1.5
1986.1849	7.00	-3.46	111271.596	.5	116305.000	.5
1986.2062	7.00	-4.69	110501.650	4.5	115535.000	3.5
1986.2192	20.00	-2.59	15315.943	2.0	20349.260	2.0
1986.2192	20.00	-1.28	15315.943	2.0	20349.260	2.0
1986.2654	29.01	-1.60	141542.100	2.0	146575.300	2.0
1986.3286	6.00	-2.36	83761.260	3.0	88794.300	2.0
1986.3759	28.01	-2.50	115870.280	2.5	120903.200	3.5
1986.3956	28.01	-3.94	116145.690	3.5	121178.560	3.5
1986.4824	26.00	-3.17	47017.170	3.0	52049.820	2.0
1986.5456	9.02	-2.60	384493.060	1.5	389525.550	1.5
1986.5827	10.00	-2.85	167449.464	1.0	172481.860	1.0
1986.8200	26.00	-3.94	48361.920	4.0	53393.715	4.0
1986.8456	23.00	-3.48	36989.200	2.5	42020.930	3.5
1986.9286	14.01	-.90	119245.480	.5	124277.000	.5
1987.0076	6.00	-3.10	84935.340	1.0	89966.660	2.0
1987.2840	27.00	-3.82	49484.050	3.5	54514.670	3.5
1987.2947	17.00	-4.26	85917.937	.5	90948.530	1.5
1987.2959	28.01	-3.60	114858.880	5.5	119889.470	5.5
1987.3706	18.00	-1.91	119023.699	4.0	124054.100	3.0
1987.6096	17.00	-1.30	91564.300	.5	96594.096	.5
1987.6436	18.01	-2.27	196315.510	2.5	201345.220	1.5
1987.6476	15.01	-.51	127368.000	2.0	132397.700	2.0
1987.6476	17.01	-2.74	126725.100	1.0	131754.800	1.0
1987.9716	28.01	-4.55	109846.000	3.5	114874.880	2.5
1988.0349	18.01	-.53	200151.640	1.5	205180.360	.5
1988.2539	22.00	-4.48	41039.874	5.0	46068.040	4.0
1988.4220	18.00	-2.30	119023.699	4.0	124051.440	3.0
1988.5134	25.00	-3.64	57487.080	2.5	62514.590	2.5
1988.6439	22.00	-3.88	43744.550	4.0	48771.730	5.0
1988.7001	17.00	-4.24	96494.722	4.5	101521.760	3.5
1988.7468	6.00	-3.85	83740.060	0.0	88766.980	1.0
1988.8224	7.00	-2.13	111213.271	1.5	116240.000	1.5
1988.8224	7.00	-2.51	111213.271	1.5	116240.000	2.5
1988.8298	21.00	-2.79	36934.150	1.5	41960.860	2.5
1988.8679	17.00	-1.23	96494.722	4.5	101521.336	4.5
1988.9604	28.01	-2.99	116167.760	1.5	121194.140	2.5
1988.9699	7.00	-2.99	111285.644	1.5	116312.000	.5
1988.9699	7.00	-3.09	111285.644	1.5	116312.000	1.5
1988.9699	7.00	-2.74	111285.644	1.5	116312.000	2.5
1989.0593	22.00	-2.64	41624.130	4.0	46650.260	3.0
1989.1666	10.00	-2.15	167449.464	1.0	172475.323	2.0
1989.2652	6.00	-.94	81343.990	2.0	86369.600	2.0
1989.2683	26.00	-3.74	46744.975	3.0	51770.577	3.0
1989.4195	24.00	-4.15	31009.000	3.0	36034.220	3.0
1989.4473	28.01	-1.60	101258.010	1.5	106283.160	2.5
1989.4591	6.00	-1.83	83848.830	3.0	88873.950	2.0
1989.6255	17.01	-2.75	126743.300	2.0	131768.000	2.0
1989.7086	29.01	-.93	118532.150	2.0	123556.640	2.0
1989.7244	29.01	-3.67	128569.600	2.0	133594.050	3.0
1989.8353	28.01	-2.94	115120.000	2.5	120144.170	2.5
1989.8472	14.03	.88	322337.830	1.5	327361.970	2.5
1989.8472	14.03	-.07	322337.830	1.5	327361.970	1.5
1989.8987	23.00	-2.57	34374.810	3.5	39398.820	3.5
1990.2077	28.01	-.82	100475.820	3.5	105499.050	3.5
1990.2988	23.00	-3.35	15664.750	1.5	20687.750	1.5
1990.3222	18.00	-1.69	119023.699	4.0	124046.640	4.0
1990.3222	18.00	-.07	119023.699	4.0	124046.640	5.0
1990.3583	18.01	-4.02	201608.820	3.5	206631.670	2.5
1990.4732	28.00	-2.24	50851.220	1.0	55873.780	2.0
1990.5207	27.00	-5.00	47612.180	1.5	52634.620	.5
1990.7823	29.01	.03	115662.770	4.0	120684.550	3.0
1990.9607	23.00	-4.52	31962.300	.5	36983.630	1.5
1991.0349	7.00	-2.50	107588.469	.5	112609.612	1.5
1991.0357	14.00	-2.12	57328.789	1.0	62349.930	2.0
1991.1075	23.00	-4.02	37342.660	2.5	42363.620	3.5
1991.1154	6.00	-4.59	84950.360	2.0	89971.300	3.0
1991.1987	23.00	-4.96	36989.200	2.5	42009.930	2.5
1991.2145	24.00	-4.56	50184.100	2.0	55204.790	3.0
1991.2423	6.00	-1.58	81311.010	0.0	86331.630	1.0
1991.3165	7.00	-2.79	111143.567	.5	116164.000	.5
1991.3165	7.00	-2.99	111143.567	.5	116164.000	1.5
1991.3811	25.00	-3.66	51169.180	5.5	56189.450	4.5
1991.5215	28.00	-1.97	43933.428	2.0	48953.344	1.0
1991.6271	18.00	-4.17	121191.920	2.0	126211.570	1.0
1991.6509	6.00	-2.12	83747.390	2.0	88766.980	1.0
1991.7195	20.00	-3.77	15315.943	2.0	20335.360	1.0
1991.7195	20.00	-2.45	15315.943	2.0	20335.360	1.0
1991.7438	7.00	-2.76	111285.644	1.5	116305.000	.5
1991.7438	7.00	-4.04	111285.644	1.5	116305.000	1.5
1991.7580	25.00	-1.41	57485.970	2.5	62505.290	3.5
1991.7699	22.00	-3.90	40670.600	2.0	45689.890	3.0
1991.8295	24.00	-3.99	49652.760	2.0	54671.900	1.0
1991.9406	28.01	-4.23	116275.810	3.5	121294.670	4.5
1991.9930	28.00	-.98	48735.308	2.0	53754.036	2.0
1992.1959	17.00	-.54	94663.670	1.5	99681.887	1.5
1992.2621	18.01	-2.17	194861.270	2.5	199879.320	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
1992.2938	18.01	.13	199959.620	2.5	204977.590	2.5
1992.3082	22.00	-4.93	15108.121	3.0	20126.055	3.0
1992.3407	26.00	-2.44	40491.260	0.0	45509.112	1.0
1992.3721	22.00	-4.87	20209.444	2.0	25227.217	3.0
1992.4158	28.00	-.85	44314.980	4.0	49332.643	4.0
1992.5282	18.00	-2.80	119847.810	1.0	124865.190	2.0
1992.5480	26.00	-4.10	47197.000	2.0	52214.330	1.0
1992.8884	14.00	-.65	49188.617	2.0	54205.090	2.0
1992.9016	6.00	-3.09	84950.360	2.0	89966.800	3.0
1992.9571	6.00	-2.27	84950.360	2.0	89966.660	2.0
1993.0763	15.00	-3.67	70689.400	3.5	75705.400	3.5
1993.2869	23.00	-4.38	36983.630	1.5	41999.100	1.5
1993.3728	20.00	.13	31539.495	1.0	36554.749	1.0
1993.3990	14.00	-1.80	57798.072	2.0	62813.260	1.0
1993.4141	25.00	-2.83	51552.780	.5	56567.930	1.5
1993.4817	18.01	-2.91	201608.820	3.5	206623.800	3.5
1993.5930	15.00	-3.39	76875.400	1.5	81890.100	2.5
1993.6447	6.00	-4.08	83752.410	1.0	88766.980	1.0
1993.6686	28.01	-.30	99132.780	5.5	104147.290	5.5
1993.6725	29.01	-1.47	141542.100	2.0	146556.600	3.0
1993.7643	17.00	-2.26	85735.091	1.5	90749.360	2.5
1993.9032	28.01	-3.22	116786.420	.5	121800.340	1.5
1994.0492	12.00	-3.45	54676.438	3.0	59689.991	2.0
1994.1573	12.00	-2.19	54676.710	3.0	59689.991	2.0
1994.1573	12.00	-3.75	54676.710	2.0	59689.991	2.0
1994.3053	26.00	-3.64	46727.055	2.0	51739.964	2.0
1994.3685	28.01	-2.72	116312.340	1.5	121325.090	2.5
1994.4481	10.01	-.73	302057.260	.5	307069.810	1.5
1994.5050	18.00	-1.71	112138.980	2.0	117151.387	1.0
1994.7657	26.00	-3.35	46137.140	3.0	51148.892	2.0
1994.8293	16.00	-2.18	76655.408	2.0	81667.000	1.0
1994.8660	17.01	-2.25	126743.300	2.0	131754.800	1.0
1994.8926	7.00	-4.90	111143.567	.5	116155.000	.5
1994.8926	7.00	-2.04	111143.567	.5	116155.000	1.5
1994.9380	18.00	-1.62	118870.981	0.0	123882.300	1.0
1994.9408	26.00	-2.03	43210.011	2.0	48221.323	1.0
1995.2322	18.01	-1.67	195128.270	4.5	200138.850	3.5
1995.2681	28.01	-.94	129284.500	2.5	134294.990	2.5
1995.2960	28.00	-5.00	47030.148	3.0	52040.568	2.0
1995.5031	23.00	-2.82	36989.200	2.5	41999.100	1.5
1995.6146	16.00	-2.01	76655.380	3.0	81665.000	2.0
1995.6186	18.00	-1.08	119847.810	1.0	124857.420	2.0
1995.6257	16.00	-2.92	76655.408	2.0	81665.000	2.0
1995.6783	18.00	-2.32	119847.810	1.0	124857.270	1.0
1995.6987	22.00	-4.79	34204.971	4.0	39214.380	3.0
1995.7792	26.00	-4.50	40052.080	2.0	45061.287	3.0
1995.8816	7.00	-4.89	110521.050	1.5	115530.000	.5
1995.9015	27.00	-3.69	48334.370	1.5	53343.270	1.5
1995.9214	28.01	-1.04	113623.100	.5	118631.950	.5
1996.1119	18.00	-3.55	118459.662	1.0	123468.034	1.0
1996.1833	20.00	-.34	31539.495	1.0	36547.688	0.0
1996.4515	23.02	-4.17	155569.100	2.5	160576.620	3.5
1996.5692	18.00	-1.59	107131.755	1.0	112138.980	2.0
1996.6883	16.00	-1.85	76655.374	4.0	81662.300	3.0
1996.6907	16.00	-2.92	76655.380	3.0	81662.300	3.0
1996.7019	16.00	-4.46	76655.408	2.0	81662.300	3.0
1996.8718	22.00	-3.93	37852.434	4.0	42858.900	3.0
1997.0218	24.00	-3.35	49812.460	3.0	54818.550	2.0
1997.0258	26.00	-3.93	29356.780	2.0	34362.860	1.0
1997.1000	20.00	-1.51	42919.053	2.0	47924.947	3.0
1997.1016	24.00	-4.07	31028.330	2.0	36034.220	3.0
1997.1096	6.00	-1.87	81325.760	1.0	86331.630	1.0
1997.1343	14.00	-.60	54185.264	1.0	59191.072	2.0
1997.2452	14.00	-3.59	59128.400	5.0	64133.930	4.0
1997.3785	14.00	-.38	54185.264	1.0	59190.460	1.0
1997.5413	14.00	-1.64	57798.072	2.0	62802.860	3.0
1997.6164	15.01	-1.07	127368.000	2.0	132372.600	1.0
1997.7481	10.01	-2.79	302890.570	2.5	307894.840	2.5
1997.7561	23.00	-2.83	17116.920	3.5	22121.170	4.5
1997.8080	18.01	-4.25	203007.690	1.5	208011.810	1.5
1998.0555	29.01	-.18	146415.700	2.0	151419.200	3.0
1998.1386	26.00	-4.24	31937.308	1.0	36940.600	2.0
1998.1513	6.00	-2.71	83791.040	2.0	88794.300	2.0
1998.1634	28.01	-4.83	128732.030	1.5	133735.260	2.5
1998.1913	28.01	-.22	101366.140	2.5	106369.300	1.5
1998.2273	23.01	-4.84	67905.100	3.0	72908.170	3.0
1998.2812	22.00	-4.89	31205.985	3.0	36208.920	4.0
1998.2832	14.01	-.60	119274.070	1.5	124277.000	.5
1998.3870	28.01	-3.79	116191.470	2.5	121194.140	2.5
1998.4230	10.01	-1.38	303974.290	1.5	308976.870	.5
1998.4829	25.00	-4.16	57512.160	1.5	62514.590	2.5
1998.6148	15.00	-3.06	76762.400	.5	81764.500	1.5
1998.6475	14.00	-4.99	59131.912	4.0	64133.930	4.0
1998.6747	27.00	-4.22	43199.650	2.5	48201.600	3.5
1998.8985	25.00	-2.05	57485.970	2.5	62487.360	2.5
1999.1143	28.01	-3.98	116191.470	2.5	121192.320	3.5
1999.1783	23.01	-2.86	44200.970	1.0	49201.660	2.0
1999.2246	12.00	-1.89	54706.536	1.0	59707.110	0.0
1999.2274	18.00	-1.66	113468.550	2.0	118469.117	2.0
1999.3142	23.01	-4.09	32040.760	2.0	37041.110	2.0
1999.3562	26.00	-4.86	45833.240	4.0	50833.485	5.0
1999.5302	6.00	-2.99	83791.040	2.0	88790.850	1.0
1999.8742	23.00	-2.68	15688.800	2.5	20687.750	1.5
1999.8874	18.00	-4.82	118469.117	2.0	123468.034	1.0
1999.9022	23.02	-2.83	155682.600	3.5	160681.480	3.5
1999.9058	28.00	-4.77	44314.980	4.0	49313.851	3.0
1999.9174	7.00	-2.86	111165.158	1.5	116164.000	.5
1999.9174	7.00	-2.94	111165.158	1.5	116164.000	1.5
1999.9174	7.00	-2.20	111165.158	1.5	116164.000	2.5
2000.0246	17.00	-2.64	96594.096	.5	101592.670	.5
2000.0542	29.01	-.65	116080.460	3.0	121078.960	3.0
2000.0622	23.01	-4.66	68147.200	4.0	73145.680	3.0
2000.0698	17.00	-.95	94973.683	.5	99972.144	.5
2000.1262	29.01	-.07	117747.450	3.0	122745.770	2.0
2000.1502	18.01	-1.25	186171.260	.5	191169.520	1.5
2000.1983	24.00	-2.55	50210.870	4.0	55209.010	4.0
2000.2035	7.00	-3.03	111260.873	3.5	116259.000	2.5
2000.2383	6.00	-3.36	83838.080	2.0	88836.120	3.0
2000.2983	27.00	-4.33	46562.870	1.5	51560.760	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2000.4064	23.00	-4.65	37556.000	3.5	42553.620	4.5
2000.5545	27.00	-2.80	41225.760	4.5	46223.010	4.5
2000.6225	28.01	-2.12	129297.910	3.5	134294.990	2.5
2000.7635	14.00	-4.62	59191.072	2.0	64187.800	3.0
2000.7747	29.01	-4.41	133984.600	3.0	138981.300	2.0
2000.7959	14.00	-1.82	49188.617	2.0	54185.264	1.0
2000.7987	6.00	-3.18	83877.310	1.0	88873.950	2.0
2000.8376	28.00	-2.39	44336.100	4.0	49332.643	4.0
2000.9269	18.01	-.78	194883.000	3.5	199879.320	3.5
2000.9709	17.00	-2.96	97530.130	2.5	102526.340	2.5
2000.9830	6.00	-1.69	81325.760	1.0	86321.940	0.0
2001.0030	17.00	-1.66	97530.130	2.5	102526.260	3.5
2001.0710	24.00	-3.24	49822.590	2.0	54818.550	2.0
2001.0911	28.01	-1.57	100592.980	3.5	105588.890	4.5
2001.1351	29.01	-.90	146423.400	4.0	151419.200	3.0
2001.1952	18.01	-2.90	199981.940	1.5	204977.590	2.5
2001.3234	23.00	-3.31	37025.600	3.5	42020.930	3.5
2001.4600	26.00	-4.40	46744.975	3.0	51739.964	2.0
2001.4756	10.01	-4.29	302425.870	1.5	307420.820	2.5
2001.5241	14.00	-3.52	58775.451	2.0	63770.280	1.0
2001.5358	26.00	-4.82	45428.385	4.0	50423.185	4.0
2001.7249	26.00	-4.24	49242.872	3.0	54237.200	4.0
2001.8364	28.01	-3.20	116167.760	1.5	121161.810	1.5
2001.8885	24.00	-4.86	50210.870	4.0	55204.790	3.0
2001.9197	7.00	-2.18	111165.158	1.5	116159.000	2.5
2002.2493	27.00	-3.36	49484.050	3.5	54477.070	3.5
2002.2694	29.01	-4.06	133826.200	2.0	138819.170	3.0
2002.2894	10.01	-1.02	302247.780	3.5	307240.700	3.5
2002.3432	14.00	-2.89	58801.524	1.0	63794.310	2.0
2002.4318	17.00	-1.30	95897.565	1.5	100890.130	2.5
2002.4659	28.01	-.80	99154.810	4.5	104147.290	5.5
2002.5301	27.00	-2.24	28470.510	1.5	33462.830	2.5
2002.5846	18.00	-1.00	111667.870	0.0	116660.054	1.0
2002.5983	29.01	-.98	117231.690	1.0	122223.840	0.0
2002.6384	14.02	-4.82	249774.700	3.0	254766.750	2.0
2002.6600	14.00	-1.94	58801.524	1.0	63793.520	1.0
2002.7066	6.00	-2.06	81325.760	1.0	86317.640	2.0
2002.8711	18.01	.37	199959.620	2.5	204951.090	3.5
2003.0147	18.00	-1.16	113468.550	2.0	118459.662	1.0
2003.0236	24.00	-4.13	21810.840	1.0	26801.930	1.0
2003.0958	24.00	-3.13	44186.920	2.0	49177.830	3.0
2003.2082	28.01	-4.49	109846.000	3.5	114836.630	3.5
2003.2925	28.01	-4.71	129988.050	2.5	134978.470	2.5
2003.4009	7.00	-4.09	110544.850	2.5	115535.000	3.5
2003.4892	14.00	-.21	59032.140	2.0	64022.070	3.0
2003.5246	7.00	-4.84	111165.158	1.5	116155.000	.5
2003.5246	7.00	-3.21	111165.158	1.5	116155.000	1.5
2003.5366	10.00	-3.59	167867.178	0.0	172856.990	1.0
2003.5374	25.00	-4.84	56490.790	2.5	61480.600	3.5
2003.7984	14.00	-.92	59032.140	2.0	64021.300	2.0
2004.0434	28.01	-4.64	130757.510	4.5	135746.060	3.5
2004.0756	28.01	-1.25	129297.910	3.5	134286.380	4.5
2004.0876	22.00	-3.74	38159.710	3.0	43148.150	3.0
2004.2242	29.01	-.03	146415.700	2.0	151403.800	2.0
2004.2966	28.01	-.98	116468.400	1.5	121456.320	1.5
2004.4091	6.00	-1.54	81343.990	2.0	86331.630	1.0
2004.5039	7.00	-2.78	111271.596	.5	116259.000	.5
2004.5039	7.00	-3.25	111271.596	.5	116259.000	1.5
2004.5055	28.01	-4.26	106133.140	1.5	111120.540	1.5
2004.5498	6.00	-2.39	83848.830	3.0	88836.120	3.0
2004.6301	28.01	-3.62	116191.470	2.5	121178.560	3.5
2004.6342	28.01	-3.61	131686.560	4.5	136673.640	4.5
2004.6905	18.01	-3.79	196621.880	3.5	201608.820	3.5
2004.7551	17.00	-2.88	90193.640	4.5	95180.419	3.5
2004.7869	29.01	.24	146415.700	2.0	151402.400	3.0
2004.8271	13.01	-.91	144638.900	2.0	149625.500	2.0
2004.8271	13.01	-.18	144638.900	1.0	149625.500	2.0
2004.8271	13.01	-.38	144638.900	2.0	149625.500	3.0
2004.8271	13.01	-2.46	144638.900	3.0	149625.500	2.0
2004.8271	13.01	-1.28	144638.900	3.0	149625.500	3.0
2004.8271	13.01	.15	144638.900	3.0	149625.500	4.0
2005.0757	14.00	-.42	54205.090	2.0	59191.072	2.0
2005.1014	26.00	-3.63	55378.842	2.0	60364.760	3.0
2005.1528	14.02	-.32	244871.470	1.0	249857.260	0.0
2005.2896	18.01	-2.62	194996.490	1.5	199981.940	1.5
2005.2936	24.00	-3.25	21810.840	1.0	26796.280	2.0
2005.3218	14.00	-.84	54205.090	2.0	59190.460	1.0
2005.3374	26.00	-4.32	47271.999	1.0	52257.330	0.0
2005.3849	9.00	-3.39	118936.797	1.5	123922.010	1.5
2005.3894	7.00	-2.56	111326.798	2.5	116312.000	1.5
2005.3894	7.00	-2.38	111326.798	2.5	116312.000	2.5
2005.3902	17.01	-1.98	126782.800	3.0	131768.000	2.0
2005.5350	24.00	-4.37	40982.970	2.0	45967.810	2.0
2005.6046	26.00	-2.05	48928.423	2.0	53913.090	2.0
2005.6263	26.00	-2.50	45061.287	3.0	50045.900	2.0
2005.7040	25.01	-3.85	71390.140	3.0	76374.560	2.0
2005.7096	18.00	-4.80	121068.804	1.0	126053.210	2.0
2005.7402	23.00	-3.28	37025.600	3.5	42009.930	2.5
2005.7712	9.00	-2.38	118936.797	1.5	123921.050	2.5
2005.9535	17.01	-2.30	141350.000	3.0	146333.800	2.0
2006.0924	12.00	-4.28	54706.536	1.0	59689.991	2.0
2006.2070	6.00	-2.05	81343.990	2.0	86327.160	3.0
2006.4044	24.00	-.41	48558.570	2.0	53541.250	2.0
2006.6380	24.00	-4.59	49822.590	2.0	54804.690	1.0
2006.6766	14.00	-1.80	56978.256	1.0	61960.260	0.0
2006.7467	6.00	-2.04	84984.970	3.0	89966.800	3.0
2006.8031	6.00	-2.94	84984.970	3.0	89966.660	2.0
2006.9022	18.00	-.58	113426.050	2.0	118407.494	1.0
2006.9199	13.01	-1.05	142362.800	2.0	147344.200	3.0
2006.9199	13.01	-1.96	142362.800	3.0	147344.200	3.0
2006.9485	7.00	-1.80	107628.283	1.5	112609.612	1.5
2007.1468	22.00	-4.90	17423.853	2.0	22404.690	3.0
2007.2213	26.00	-3.45	46313.610	2.0	51294.262	3.0
2007.3095	7.00	-2.82	111143.567	.5	116124.000	.5
2007.3095	7.00	-3.12	111143.567	.5	116124.000	1.5
2007.4128	22.00	-4.42	37743.933	3.0	42724.110	2.0
2007.5688	29.01	-3.51	136754.110	2.0	141733.900	2.0
2007.7986	28.01	-3.59	116167.760	1.5	121146.980	2.5
2007.8268	24.00	.03	48661.590	3.0	53640.740	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2007.8268	7.00	-3.82	110544.850	2.5	115524.000	3.5
2007.8361	7.00	-2.87	111260.873	3.5	116240.000	2.5
2007.8873	29.01	-2.22	146423.400	4.0	151402.400	3.0
2008.0002	28.01	-4.90	131075.780	1.5	136054.500	1.5
2008.0204	27.00	-4.87	28470.510	1.5	33449.180	.5
2008.2092	7.00	-3.52	111326.798	2.5	116305.000	1.5
2008.2919	26.00	-3.98	46727.055	2.0	51705.052	2.0
2008.3681	26.00	-4.51	45726.104	5.0	50703.912	5.0
2008.4642	28.01	-.03	129284.500	2.5	134262.070	3.5
2008.5852	9.02	-.13	452577.900	.5	457555.170	1.5
2008.6135	15.00	-1.90	76425.200	2.5	81402.400	2.5
2008.6938	7.00	-2.03	107588.469	.5	112565.470	.5
2008.7124	17.00	-.25	95612.357	1.5	100589.312	2.5
2008.8152	15.00	-.86	75484.400	2.5	80461.100	3.5
2008.8693	18.00	-3.16	117183.654	2.0	122160.220	3.0
2008.9162	24.00	-3.44	33934.880	3.0	38911.330	3.0
2009.0171	29.01	.23	146427.600	1.0	151403.800	2.0
2009.1220	6.00	-4.27	83791.040	2.0	88766.980	1.0
2009.1746	28.01	-2.21	112686.300	2.5	117662.110	1.5
2009.1786	21.00	-2.74	37039.770	2.5	42015.570	3.5
2009.1786	18.01	-4.57	196633.020	2.5	201608.820	3.5
2009.2271	24.00	-4.25	33935.650	2.0	38911.330	3.0
2009.2553	18.01	-1.01	214184.790	3.5	219160.400	2.5
2009.3373	18.00	-4.15	119683.113	2.0	124658.520	2.0
2009.3967	18.01	-4.06	199138.450	1.5	204113.710	1.5
2009.5263	14.00	-1.58	58775.451	2.0	63750.390	1.0
2009.5421	29.01	1.01	146402.900	5.0	151377.800	6.0
2009.5744	28.01	-3.32	117872.780	2.5	122847.600	3.5
2009.5999	26.00	-3.17	47092.693	3.0	52067.450	2.0
2009.8371	6.00	-3.47	83820.130	1.0	88794.300	2.0
2009.8572	28.01	-3.94	114858.880	5.5	119833.000	5.5
2009.9125	16.00	-2.65	76653.817	4.0	81627.800	4.0
2009.9133	16.00	-1.78	76653.819	5.0	81627.800	4.0
2009.9234	16.00	-3.82	76653.844	3.0	81627.800	4.0
2010.0350	28.01	.44	129297.910	3.5	134271.590	4.5
2010.0471	6.00	-4.09	81343.990	2.0	86317.640	2.0
2010.1078	29.01	.84	148482.000	3.0	153455.500	4.0
2010.1082	17.00	-1.91	97259.811	1.5	102233.310	2.5
2010.1563	14.00	-3.06	58786.860	3.0	63760.240	3.0
2010.1660	7.00	-2.86	111285.644	1.5	116259.000	.5
2010.1660	7.00	-2.30	111285.644	1.5	116259.000	1.5
2010.1660	7.00	-2.31	111285.644	1.5	116259.000	2.5
2010.5687	15.00	-.49	67971.140	.5	72943.500	.5
2010.6252	28.01	-2.29	113321.950	4.5	118294.170	3.5
2010.6915	14.00	-1.27	58801.524	1.0	63773.580	2.0
2010.6956	37.00	-1.64	23715.081	0.0	28688.484	0.0
2010.7951	28.01	-.54	113407.310	2.5	118379.110	2.5
2010.8962	28.01	.38	129284.500	2.5	134256.050	2.5
2010.9730	14.00	-1.53	58788.880	4.0	63760.240	3.0
2011.0782	29.01	-3.76	141244.600	1.0	146215.700	1.0
2011.2320	6.00	-2.94	83820.130	1.0	88790.850	1.0
2011.3412	14.00	-4.06	57450.580	3.0	62421.030	3.0
2011.3615	28.01	-1.26	113408.710	1.5	118379.110	2.5
2011.3857	28.01	-4.36	116191.470	2.5	121161.810	1.5
2011.4302	18.01	-1.81	208921.200	1.5	213891.430	2.5
2011.4464	28.01	-.95	129284.500	2.5	134254.690	1.5
2011.5152	18.01	-2.56	208921.200	1.5	213891.220	1.5
2011.5922	17.00	-.58	91343.500	2.5	96313.330	1.5
2011.6731	28.01	-.31	100619.260	4.5	105588.890	4.5
2011.7662	29.01	-.80	146402.900	5.0	151372.300	5.0
2011.8095	26.00	-3.89	42991.680	5.0	47960.973	4.0
2011.8196	22.00	-3.71	15156.787	4.0	20126.055	3.0
2012.0132	18.01	-.23	183797.360	2.5	188766.150	2.5
2012.0796	28.00	-2.07	44206.185	3.0	49174.811	4.0
2012.1695	7.00	-2.84	111271.596	.5	116240.000	1.5
2012.1914	28.01	-1.13	129284.500	2.5	134252.850	3.5
2012.2298	17.00	-1.58	95897.565	1.5	100865.820	2.5
2012.3250	18.01	-2.96	208923.410	2.5	213891.430	2.5
2012.4101	18.01	-3.51	208923.410	2.5	213891.220	1.5
2012.4162	17.00	-1.91	95897.565	1.5	100865.360	1.5
2012.8517	23.00	-2.82	36983.630	1.5	41950.350	2.5
2013.0909	6.00	-1.79	83947.430	3.0	88913.560	2.0
2013.1274	27.00	-2.78	47128.960	2.5	52095.000	3.5
2013.2044	28.01	-1.34	112906.930	1.5	117872.780	2.5
2013.3491	18.00	-1.93	118407.494	1.0	123372.987	2.0
2013.3584	18.01	-3.25	200138.850	3.5	205104.320	4.5
2013.4598	28.01	.49	129284.500	2.5	134249.720	1.5
2013.4874	7.00	-3.17	111198.848	.5	116164.000	.5
2013.4874	7.00	-2.37	111198.848	.5	116164.000	1.5
2013.5125	28.01	-3.90	116275.810	3.5	121240.900	3.5
2013.5490	13.01	-1.82	142607.000	2.0	147572.000	1.0
2013.6334	14.00	-.36	59056.508	1.0	64021.300	2.0
2013.7965	21.00	-2.26	30706.610	1.5	35671.000	1.5
2013.8695	18.01	-1.68	203730.860	1.5	208695.070	1.5
2013.8857	18.01	-4.96	210477.770	3.5	215441.940	4.5
2013.8898	28.01	.58	129297.910	3.5	134262.070	3.5
2013.9530	55.00	-.98	21946.660	0.0	26912.019	0.0
2014.0561	25.00	-4.15	45940.930	2.5	50904.680	2.5
2014.1848	7.00	-2.60	111143.567	.5	116107.000	.5
2014.1848	7.00	-4.10	111143.567	.5	116107.000	1.5
2014.2144	20.01	-.09	74484.920	.5	79448.280	.5
2014.3077	18.01	-1.68	194996.490	1.5	199959.620	2.5
2014.4822	13.01	-1.62	143170.000	1.0	148132.700	2.0
2014.7624	28.01	-1.65	116838.330	1.5	121800.340	1.5
2014.7867	7.00	-4.60	110521.050	1.5	115483.000	2.5
2014.8476	15.00	-4.28	70391.600	2.5	75353.400	1.5
2014.9451	27.00	-4.93	49484.050	3.5	54445.610	2.5
2015.0344	18.00	-4.99	120188.660	2.0	125150.000	3.0
2015.1116	23.00	-2.96	36989.200	2.5	41950.350	2.5
2015.2944	29.01	-3.48	136773.200	1.0	141733.900	2.0
2015.4041	27.00	-3.74	49197.740	4.5	54158.170	4.5
2015.4053	18.00	-4.29	119683.113	2.0	124643.540	1.0
2015.4366	28.01	-.69	114836.630	3.5	119796.980	2.5
2015.5057	25.00	-4.89	51530.610	3.5	56490.790	2.5
2015.5475	26.00	-4.34	46744.975	3.0	51705.052	2.0
2015.5853	7.00	-3.14	111204.016	2.5	116164.000	1.5
2015.5853	7.00	-2.34	111204.016	2.5	116164.000	2.5
2015.5853	7.00	-2.63	111204.016	2.5	116164.000	3.5
2015.6357	26.00	-4.30	49297.660	1.0	54257.520	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2015.7414	29.01	.16	146415.700	2.0	151375.300	2.0
2015.7820	15.00	-2.54	72884.400	2.5	77843.900	2.5
2015.8267	23.00	-4.42	34167.840	2.5	39127.230	1.5
2016.0056	7.00	-3.64	110521.050	1.5	115480.000	1.5
2016.0260	15.00	-1.32	72884.400	2.5	77843.300	1.5
2016.0386	17.00	-1.03	97259.811	1.5	102218.680	2.5
2016.0495	7.00	-2.81	111165.158	1.5	116124.000	.5
2016.0495	7.00	-2.31	111165.158	1.5	116124.000	1.5
2016.0495	7.00	-3.54	111165.158	1.5	116124.000	2.5
2016.0711	14.00	-2.46	57198.027	3.0	62156.816	2.0
2016.1276	27.00	-2.81	43242.950	2.5	48201.600	3.5
2016.1479	19.02	-1.11	241667.000	.5	246625.600	1.5
2016.1605	17.00	-1.92	97259.811	1.5	102218.380	1.5
2016.2821	24.00	.36	48824.500	4.0	53782.770	4.0
2016.3350	28.01	.34	129297.910	3.5	134256.050	2.5
2016.4432	14.00	-1.91	56978.256	1.0	61936.130	1.0
2016.5017	10.01	-3.02	302816.980	1.5	307774.710	1.5
2016.5163	26.00	-4.30	49108.876	4.0	54066.570	4.0
2016.5220	28.01	-1.55	99340.550	3.5	104298.230	4.5
2016.5326	26.00	-3.45	43079.013	1.0	48036.667	2.0
2016.7279	17.00	-1.36	90749.360	2.5	95706.534	1.5
2016.7470	26.00	-3.22	47092.693	3.0	52049.820	2.0
2016.8101	14.00	-1.51	56690.903	2.0	61647.875	2.0
2016.8328	22.00	-6.88	12118.394	4.0	17075.310	4.0
2016.9451	22.00	-4.92	42018.010	5.0	46974.650	5.0
2016.9622	28.00	-1.50	44314.980	4.0	49271.578	3.0
2017.0196	14.00	-2.07	56690.903	2.0	61647.360	1.0
2017.1161	6.00	-2.62	83838.080	2.0	88794.300	2.0
2017.1438	7.00	-2.90	111198.848	.5	116155.000	.5
2017.1438	7.00	-2.54	111198.848	.5	116155.000	1.5
2017.3114	24.00	-3.62	50253.270	5.0	55209.010	4.0
2017.3350	14.00	-3.10	59034.988	3.0	63990.670	2.0
2017.3481	28.01	-4.92	131075.780	1.5	136031.430	2.5
2017.4051	28.01	-3.92	116191.470	2.5	121146.980	2.5
2017.6192	7.00	-4.28	111204.016	2.5	116159.000	2.5
2017.6192	7.00	-2.13	111204.016	2.5	116159.000	3.5
2017.6371	28.01	-2.11	129297.910	3.5	134252.850	3.5
2017.6473	17.00	-4.21	94314.206	1.5	99269.121	2.5
2017.6534	15.00	-1.59	75353.400	1.5	80308.300	2.5
2017.6534	13.01	-.73	143262.700	2.0	148217.600	3.0
2017.8750	7.00	-2.79	111285.644	1.5	116240.000	1.5
2017.8750	7.00	-2.29	111285.644	1.5	116240.000	2.5
2017.8803	18.00	-4.77	121257.227	1.0	126211.570	1.0
2017.9792	30.02	-3.46	257566.100	1.0	262520.200	2.0
2017.9996	24.00	-3.67	21847.880	2.0	26801.930	1.0
2018.0566	18.01	-1.31	196076.390	1.5	201030.300	.5
2018.4062	26.00	-3.67	49433.108	2.0	54386.160	1.0
2018.4784	28.00	-2.95	44206.185	3.0	49159.060	2.0
2018.5212	6.00	-3.34	83838.080	2.0	88790.850	1.0
2018.5905	18.01	-3.51	208921.200	1.5	213873.800	2.5
2018.9206	28.01	-3.75	131928.770	4.5	136880.560	4.5
2018.9777	28.01	-3.73	95893.760	1.5	100845.410	.5
2019.0389	7.01	-2.30	205350.180	2.0	210301.680	3.0
2019.1082	10.01	-.61	301948.000	1.5	306899.330	2.5
2019.1123	28.01	-4.61	131103.180	2.5	136054.500	1.5
2019.1326	18.00	-2.46	117563.020	0.0	122514.290	1.0
2019.2493	7.00	-4.35	111204.016	2.5	116155.000	1.5
2019.3162	18.01	-1.29	195031.120	2.5	199981.940	1.5
2019.3533	7.00	-3.48	111213.271	1.5	116164.000	.5
2019.3533	7.00	-2.93	111213.271	1.5	116164.000	2.5
2019.4794	27.00	-3.22	48753.720	1.5	53704.140	2.5
2019.4916	18.01	-2.37	208923.410	2.5	213873.800	2.5
2019.6833	28.01	-4.82	122270.050	3.5	127219.970	3.5
2020.0008	17.00	-.36	83130.900	1.5	88080.042	2.5
2020.0996	29.01	.92	146423.400	4.0	151372.300	5.0
2020.0996	28.01	-.50	100490.950	1.5	105439.850	1.5
2020.1364	15.01	-4.87	105303.190	1.0	110252.000	1.0
2020.1466	26.00	-4.33	46888.494	2.0	51837.279	3.0
2020.2629	13.01	-1.30	144964.700	3.0	149913.200	2.0
2020.2629	13.01	-2.72	144964.700	3.0	149913.200	3.0
2020.2629	13.01	-4.15	144964.700	3.0	149913.200	4.0
2020.2629	13.01	-1.80	144964.700	4.0	149913.200	3.0
2020.2629	13.01	-.78	144964.700	4.0	149913.200	3.0
2020.2629	13.01	-2.59	144964.700	4.0	149913.200	4.0
2020.2629	13.01	-2.73	144964.700	4.0	149913.200	4.0
2020.2629	13.01	-1.06	144964.700	5.0	149913.200	4.0
2020.2670	28.01	-4.81	107737.810	1.5	112686.300	2.5
2020.3037	24.00	-3.78	21847.880	2.0	26796.280	2.0
2020.3609	28.01	-1.31	99132.780	5.5	104081.040	4.5
2020.4046	26.00	-2.63	46889.126	4.0	51837.279	3.0
2020.4752	28.01	-2.67	92325.850	3.5	97273.830	2.5
2020.5446	18.01	-4.45	184093.060	.5	189040.870	1.5
2020.5487	15.00	-3.59	74271.800	1.5	79219.600	.5
2020.5487	13.01	-2.16	143269.800	3.0	148217.600	3.0
2020.5487	13.01	-2.90	143269.800	3.0	148217.600	4.0
2020.5487	13.01	-.53	143269.800	3.0	148217.600	4.0
2020.5896	29.01	-.53	146427.600	1.0	151375.300	2.0
2020.5904	17.00	-2.48	91538.500	1.5	96486.198	1.5
2020.6202	14.00	-.02	56700.250	1.0	61647.875	2.0
2020.8093	14.00	-2.71	58774.368	3.0	63721.530	2.0
2020.8306	14.00	-.29	56700.250	1.0	61647.360	1.0
2020.9367	6.00	-3.38	83820.130	1.0	88766.980	1.0
2021.0798	15.00	-1.31	75675.900	1.5	80622.400	2.5
2021.0838	28.01	-2.79	115956.710	2.5	120903.200	3.5
2021.0998	17.00	-1.89	95400.731	2.5	100347.182	2.5
2021.1484	26.00	-3.44	49433.108	2.0	54379.440	3.0
2021.2432	15.00	-1.53	75353.400	1.5	80299.500	1.5
2021.2517	14.00	-3.87	58775.451	2.0	63721.530	2.0
2021.3948	7.00	-2.55	111213.271	1.5	116159.000	2.5
2021.4504	18.00	-4.45	121257.227	1.0	126202.820	0.0
2021.5007	6.00	-3.43	83848.830	3.0	88794.300	2.0
2021.5743	23.00	-4.79	37075.640	4.5	42020.930	3.5
2021.7582	23.00	-3.54	36983.630	1.5	41928.470	.5
2021.8772	18.00	-2.44	118870.981	0.0	123815.530	1.0
2021.9427	17.00	-2.91	91538.500	1.5	96482.889	2.5
2021.9831	28.01	-3.18	71457.740	3.5	76402.030	2.5
2022.1467	28.01	-.27	99559.330	2.5	104503.220	2.5
2022.5477	10.01	-2.36	302831.800	.5	307774.710	1.5
2022.5558	11.00	-2.28	35040.380	.5	39983.270	.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
2022.5657	28.00	-2.09	47328.850	2.0	52271.716	2.0
2022.7318	18.01	-1.86	203730.860	1.5	208673.320	2.5
2022.7846	26.00	-4.72	47271.999	1.0	52214.330	1.0
2022.8259	18.00	-4.03	120207.770	4.0	125150.000	3.0
2022.9848	7.00	-2.60	111165.158	1.5	116107.000	.5
2022.9848	7.00	-3.29	111165.158	1.5	116107.000	1.5
2023.0310	7.00	-3.20	111213.271	1.5	116155.000	.5
2023.0310	7.00	-3.24	111213.271	1.5	116155.000	1.5
2023.0511	23.00	-2.90	15664.750	1.5	20606.430	.5
2023.0920	15.00	-3.24	65450.020	1.5	70391.600	2.5
2023.3131	27.00	-2.83	47128.960	2.5	52070.000	2.5
2023.3754	18.00	-4.28	121270.682	2.0	126211.570	1.0
2023.4687	20.02	-1.53	365363.880	1.0	370304.540	2.0
2023.5670	11.00	-1.98	35042.850	1.5	39983.270	.5
2023.7260	14.00	-1.38	58774.368	3.0	63714.400	2.0
2023.7800	29.01	-.71	148515.600	4.0	153455.500	4.0
2023.8948	24.00	-3.12	21847.880	2.0	26787.500	3.0
2023.9849	25.00	-2.90	57487.080	2.5	62426.480	3.5
2024.0095	24.00	-3.69	21856.940	3.0	26796.280	2.0
2024.0218	10.01	-.89	303237.910	1.5	308177.220	1.5
2024.0341	28.01	-.18	130691.350	1.5	135630.630	2.5
2024.0710	23.00	-1.88	17181.980	4.5	22121.170	4.5
2024.1283	29.01	-1.71	117928.480	1.0	122867.530	1.0
2024.1284	17.00	-4.59	94468.857	.5	99407.907	.5
2024.1698	14.00	-2.56	58775.451	2.0	63714.400	2.0
2024.1718	18.00	-2.56	113468.550	2.0	118407.494	1.0
2024.2488	17.00	-.63	94827.150	2.5	99765.906	2.5
2024.3619	25.00	-3.70	58485.520	4.5	63424.000	3.5
2024.4973	7.00	-3.45	110544.850	2.5	115483.000	2.5
2024.5571	26.00	-3.17	43022.969	4.0	47960.973	4.0
2024.5587	18.01	-1.61	186074.350	2.5	191012.350	1.5
2024.5997	18.01	-1.78	209251.460	3.5	214189.360	4.5
2024.6079	26.00	-3.45	48231.330	5.0	53169.210	6.0
2024.6243	22.00	-2.69	34327.960	1.0	39265.800	2.0
2024.8663	18.01	-4.40	195297.610	1.5	200234.860	2.5
2024.8922	7.00	-2.34	107628.283	1.5	112565.470	.5
2024.9277	18.01	-1.66	208923.410	2.5	213860.510	3.5
2024.9688	13.01	-2.04	143280.600	4.0	148217.600	4.0
2024.9688	13.01	-2.18	143280.600	4.0	148217.600	4.0
2024.9688	13.01	-.51	143280.600	4.0	148217.600	5.0
2024.9688	13.01	-3.60	143280.600	4.0	148217.600	3.0
2025.0057	27.00	-3.40	47225.110	3.5	52162.020	3.5
2025.2002	28.00	-1.30	48817.600	1.0	53754.036	2.0
2025.2806	18.01	-1.89	209248.550	2.5	214184.790	3.5
2025.3257	18.00	-3.38	119444.880	2.0	124381.010	2.0
2025.3429	17.00	-1.39	94732.300	3.5	99668.388	3.5
2025.3503	22.00	-4.50	43583.140	3.0	48519.210	2.0
2025.4254	17.00	-3.19	95313.749	1.5	100249.636	2.5
2025.5486	18.00	-3.38	117151.387	1.0	122086.974	2.0
2025.5842	23.00	-4.06	33306.960	4.5	38242.460	3.5
2025.5933	28.00	-3.04	44336.100	4.0	49271.578	3.0
2025.6130	10.01	.17	302839.280	2.5	307774.710	1.5
2025.7279	7.00	-4.60	110544.850	2.5	115480.000	1.5
2025.9250	14.00	-2.34	58786.860	3.0	63721.530	2.0
2025.9947	29.01	.94	148515.600	4.0	153450.100	5.0
2026.0686	28.01	-4.08	115209.850	3.5	120144.170	2.5
2026.2945	10.01	-2.91	302961.070	1.5	307894.840	2.5
2026.3975	18.00	-3.49	116999.389	2.0	121932.908	1.0
2026.4095	14.00	-1.00	54257.582	3.0	59191.072	2.0
2026.4752	18.01	-3.55	209251.460	3.5	214184.790	3.5
2026.5672	17.00	-3.21	95313.749	1.5	100246.855	1.5
2026.6313	10.01	-2.86	302307.750	2.5	307240.700	3.5
2026.9231	28.01	-.21	130691.350	1.5	135623.590	1.5
2026.9387	7.00	-2.66	111326.798	2.5	116259.000	1.5
2026.9387	7.00	-2.56	111326.798	2.5	116259.000	2.5
2027.0965	26.00	-4.35	49135.003	3.0	54066.821	2.0
2027.1245	28.01	-4.01	128803.230	2.5	133734.980	3.5
2027.1997	26.00	-4.67	49135.003	3.0	54066.570	4.0
2027.2067	28.01	-3.98	131834.940	2.5	136766.490	2.5
2027.2272	18.00	-1.74	119444.880	2.0	124376.380	1.0
2027.2716	26.00	-2.92	47136.058	2.0	52067.450	2.0
2027.2889	27.00	-3.07	47225.110	3.5	52156.460	4.5
2027.3506	15.00	-1.89	76192.300	1.5	81123.500	2.5
2027.5496	28.00	-.97	51343.800	2.0	56274.516	2.0
2027.6137	24.00	-2.84	21856.940	3.0	26787.500	3.0
2027.9674	13.01	-.26	144638.900	2.0	149568.600	3.0
2027.9674	13.01	-1.16	144638.900	3.0	149568.600	3.0
2028.1147	26.00	-2.20	40404.492	1.0	45333.834	2.0
2028.1690	24.00	-3.85	50057.610	2.0	54986.820	3.0
2028.2164	7.00	-2.22	111060.905	.5	115990.000	.5
2028.2164	7.00	-2.52	111060.905	.5	115990.000	1.5
2028.2966	6.00	-3.73	83838.080	2.0	88766.980	1.0
2028.4365	28.01	.10	130691.350	1.5	135619.910	1.5
2028.4612	18.01	-.94	195031.120	2.5	199959.620	2.5
2028.4653	6.00	-2.35	84032.150	1.0	88960.640	0.0
2028.4735	23.00	-3.57	20202.490	2.5	25130.960	2.5
2028.5641	28.01	-4.15	131103.180	2.5	136031.430	2.5
2028.6217	22.00	-4.62	43744.550	4.0	48672.660	4.0
2028.6258	28.01	-.04	131620.450	1.5	136548.550	2.5
2028.6341	28.01	-3.70	68965.650	1.5	73893.730	1.5
2028.8239	28.00	-3.22	45418.858	2.0	50346.477	2.0
2028.8362	26.00	-4.83	49627.861	4.0	54555.450	4.0
2028.8564	14.00	-2.30	58786.860	3.0	63714.400	2.0
2028.8955	26.00	-4.01	47755.485	3.0	52682.930	2.0
2028.9017	18.01	-.23	200151.640	1.5	205079.070	2.5
2029.0375	13.01	-2.16	143170.000	1.0	148097.100	0.0
2029.1900	28.01	-.42	130691.350	1.5	135618.080	2.5
2029.2724	20.01	.21	74521.750	1.5	79448.280	.5
2029.2765	6.00	-3.65	83947.430	3.0	88873.950	2.0
2029.3959	28.01	-.13	99154.810	4.5	104081.040	4.5
2029.3980	22.00	-4.93	31205.985	3.0	36132.210	4.0
2029.6440	14.00	-.07	54185.264	1.0	59110.892	2.0
2029.8401	7.00	-2.64	111198.848	.5	116124.000	.5
2029.8401	7.00	-3.54	111198.848	.5	116124.000	1.5
2029.8450	18.00	-3.95	120188.340	1.0	125113.480	2.0
2029.9501	22.00	-3.31	43799.455	2.0	48724.340	2.0
2029.9770	18.00	-3.05	120188.660	2.0	125113.480	2.0
2030.1006	18.00	-3.50	119212.930	3.0	124137.450	2.0
2030.1253	24.00	-4.32	41043.350	3.0	45967.810	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2030.1665	18.00	-2.46	119212.930	3.0	124137.290	3.0
2030.1810	14.00	-.11	53387.334	1.0	58311.659	0.0
2030.2618	18.00	-4.39	121165.431	3.0	126089.560	3.0
2030.2696	18.01	-2.96	190942.650	.5	195866.760	1.5
2030.3563	14.02	-.03	244933.360	1.0	249857.260	0.0
2030.3975	26.00	-3.93	48231.330	5.0	53155.130	4.0
2030.4003	28.00	-2.88	49327.560	3.0	54251.353	3.0
2030.5129	23.00	-4.81	37322.090	3.5	42245.610	3.5
2030.7274	29.01	-.39	146496.200	3.0	151419.200	3.0
2030.7480	28.01	-4.06	116167.760	1.5	121090.710	.5
2030.8057	18.00	-2.25	119212.930	3.0	124135.740	3.0
2030.8057	18.00	-.98	119212.930	3.0	124135.740	4.0
2030.9225	28.00	-2.75	44262.619	2.0	49185.146	2.0
2030.9749	8.01	-2.95	251220.900	3.5	256143.300	3.5
2031.0987	28.01	-1.23	114874.880	2.5	119796.980	2.5
2031.1400	30.02	-.28	300008.700	1.0	304930.700	2.0
2031.1820	17.00	-2.41	91564.300	.5	96486.198	1.5
2031.4124	6.00	-3.75	84851.530	1.0	89772.870	2.0
2031.4660	22.00	-4.34	38159.710	3.0	43080.920	2.0
2031.5156	21.00	-4.06	37039.770	2.5	41960.860	2.5
2031.7212	18.00	-1.80	108722.668	0.0	113643.260	1.0
2031.7323	22.00	-4.95	41039.874	5.0	45960.439	6.0
2031.8017	28.00	-2.78	44112.192	1.0	49032.589	2.0
2031.8872	18.00	-3.70	120229.810	3.0	125150.000	3.0
2031.9656	13.01	-1.72	143170.000	1.0	148090.000	1.0
2031.9656	13.01	-2.81	143170.000	2.0	148090.000	1.0
2031.9656	13.01	-1.24	143170.000	1.0	148090.000	2.0
2031.9656	13.01	-1.63	143170.000	2.0	148090.000	2.0
2031.9656	13.01	-.88	143170.000	2.0	148090.000	3.0
2031.9656	13.01	-1.51	143170.000	0.0	148090.000	1.0
2031.9722	7.00	-2.01	111204.016	2.5	116124.000	1.5
2031.9722	7.00	-2.58	111204.016	2.5	116124.000	2.5
2031.9945	18.00	-4.81	120230.070	2.0	125150.000	3.0
2032.0421	26.00	-4.24	48361.920	4.0	53281.735	5.0
2032.2961	8.01	-3.18	251224.100	2.5	256143.300	3.5
2032.3292	28.00	-1.31	51343.800	2.0	56262.920	3.0
2032.3746	22.00	-4.47	39662.150	1.0	44581.160	2.0
2032.4767	20.00	-2.08	42518.708	1.0	47437.471	0.0
2032.5300	14.00	-1.65	57017.496	2.0	61936.130	1.0
2032.5977	24.00	-2.79	44259.360	3.0	49177.830	3.0
2032.7093	15.00	-1.49	75675.900	1.5	80594.100	1.5
2032.7548	28.01	-3.17	133922.910	4.5	138841.000	3.5
2032.8023	26.00	-4.81	48475.740	3.0	53393.715	4.0
2033.0400	28.01	-2.26	116468.400	1.5	121385.800	1.5
2033.1876	16.00	-.82	74267.597	2.0	79184.640	1.0
2033.1930	24.00	-4.97	50057.610	2.0	54974.640	2.0
2033.1971	28.01	-.59	101366.140	2.5	106283.160	2.5
2033.2096	6.00	-2.66	83877.310	1.0	88794.300	2.0
2033.2716	23.02	-2.61	156671.200	2.5	161588.040	3.5
2033.4374	18.00	-1.62	117563.020	0.0	122479.459	1.0
2033.5102	10.00	-1.70	167559.060	3.0	172475.323	2.0
2033.6232	16.00	-1.04	74268.650	1.0	79184.640	1.0
2033.6770	7.01	-3.69	205350.180	2.0	210266.040	2.0
2033.9086	8.01	-4.22	251720.900	3.5	256136.200	4.5
2034.1486	28.01	-2.99	114858.880	5.5	119773.600	6.5
2034.2273	28.01	-3.59	116275.810	3.5	121190.340	4.5
2034.3225	17.00	-2.43	96313.330	1.5	101227.630	.5
2034.3854	14.00	-.87	49399.670	1.0	54313.818	1.0
2034.4550	14.00	-.13	56733.380	0.0	61647.360	1.0
2034.4719	16.00	-1.52	74270.701	0.0	79184.640	1.0
2034.5336	28.01	-4.66	129294.510	2.5	134208.300	2.5
2034.5452	26.00	-3.20	47136.058	2.0	52049.820	2.0
2034.5502	28.01	-1.57	129367.910	6.5	134281.660	5.5
2034.6371	6.00	-3.60	83877.310	1.0	88790.850	1.0
2034.7262	18.00	-4.46	118459.662	1.0	123372.987	2.0
2034.7772	7.00	-3.93	111326.798	2.5	116240.000	1.5
2034.7772	7.00	-2.09	111326.798	2.5	116240.000	2.5
2034.7776	14.00	-4.87	45276.188	1.0	50189.389	2.0
2034.8169	17.00	-1.54	91680.990	1.5	96594.096	.5
2034.8277	28.01	-3.38	115000.250	3.5	119913.330	4.5
2034.8484	28.01	-3.99	128822.230	1.5	133735.260	2.5
2034.9183	17.00	-.78	90487.870	3.5	95400.731	2.5
2034.9685	28.01	-.06	130710.850	.5	135623.590	1.5
2034.9751	26.00	-2.85	33765.291	2.0	38678.015	2.0
2035.0236	10.00	-1.10	158795.992	1.0	163708.599	2.0
2035.2356	7.00	-2.15	111060.905	.5	115973.000	1.5
2035.2668	23.00	-4.04	34486.800	2.5	39398.820	3.5
2035.3372	18.00	-2.01	119444.880	2.0	124356.730	2.0
2035.3873	10.00	-2.13	158795.992	1.0	163707.721	1.0
2035.5030	28.01	-1.51	131637.100	3.5	136548.550	2.5
2035.5817	27.00	-3.87	49025.420	1.5	53936.680	2.5
2035.6397	28.01	-3.78	133929.880	3.5	138841.000	3.5
2035.6895	18.01	.42	201720.670	1.5	206631.670	2.5
2035.7682	28.01	-.79	131620.450	1.5	136531.260	1.5
2035.8018	7.00	-2.94	111213.271	1.5	116124.000	.5
2035.8018	7.00	-2.85	111213.271	1.5	116124.000	1.5
2035.9133	23.01	-2.51	44657.990	2.0	49568.450	3.0
2036.0307	26.00	-1.91	48928.423	2.0	53838.600	3.0
2036.0618	14.00	-2.97	59034.988	3.0	63945.090	3.0
2036.0916	28.01	-.27	131637.100	3.5	136547.130	3.5
2036.0999	18.01	-1.08	201345.220	1.5	206255.230	2.5
2036.1041	17.00	-.84	96313.330	1.5	101223.330	2.5
2036.2799	28.00	-2.28	49327.560	3.0	54237.136	4.0
2036.3529	28.01	-.50	131637.100	3.5	136546.500	4.5
2036.4940	28.01	-.98	130710.850	.5	135619.910	1.5
2036.5977	23.00	-3.68	19026.340	2.5	23935.150	2.5
2036.6724	23.00	-2.98	17054.870	2.5	21963.500	3.5
2036.6926	14.00	-3.15	57468.239	2.0	62376.820	3.0
2036.8707	7.00	-3.02	111198.848	.5	116107.000	.5
2036.8707	7.00	-3.12	111198.848	.5	116107.000	1.5
2036.9143	14.00	-2.50	59037.043	4.0	63945.090	3.0
2036.9338	13.01	-1.15	142360.800	0.0	147268.800	1.0
2037.0043	28.01	-3.90	128827.150	3.5	133734.980	3.5
2037.0197	17.00	-.67	83364.927	.5	88272.720	.5
2037.0791	28.01	-.86	130691.350	1.5	135599.000	.5
2037.0998	29.01	-.74	146496.200	3.0	151403.800	2.0
2037.1754	14.00	-3.42	59110.892	2.0	64018.310	1.0
2037.2405	7.00	-4.13	110710.739	2.5	115618.000	2.5
2037.2484	14.00	-1.05	56690.903	2.0	61598.145	2.0
2037.2783	22.00	-4.57	41337.430	2.0	46244.600	2.0
2037.4120	7.00	-4.93	110715.152	3.5	115622.000	2.5
2037.4473	22.00	-2.94	34170.950	0.0	39077.713	1.0
2037.4693	28.01	-.58	129367.910	6.5	134274.620	5.5
2037.5274	7.01	-4.56	197858.690	1.0	202765.260	2.0
2037.5561	14.00	-.49	56690.903	2.0	61597.404	3.0
2037.5690	28.01	-3.53	131124.960	3.5	136031.430	2.5
2037.6313	22.00	-3.12	41624.130	4.0	46530.450	4.0
2037.6479	27.00	-2.41	43295.320	4.5	48201.600	3.5
2037.6811	29.01	.36	146496.200	3.0	151402.400	3.0
2037.7351	28.01	-.65	100592.980	3.5	105499.050	3.5
2037.7642	13.01	-3.08	142362.800	2.0	147268.800	1.0
2037.7642	13.01	-3.56	142362.800	1.0	147268.800	1.0
2037.8140	18.01	-2.81	167307.920	.5	172213.800	1.5
2037.8464	14.00	-.12	54205.090	2.0	59110.892	2.0
2038.0641	17.00	-1.63	95597.593	.5	100502.871	1.5
2038.1048	28.01	-.40	131637.100	3.5	136542.280	3.5
2038.1339	24.00	-3.92	28637.000	3.0	33542.110	2.0
2038.1921	28.01	-.24	116145.690	3.5	121050.660	2.5
2038.2211	8.01	-4.33	251220.900	3.5	256125.800	2.5
2038.2340	14.00	-.60	54205.090	2.0	59109.959	3.0
2038.3542	18.01	.18	200151.640	1.5	205056.220	1.5
2038.4705	27.00	-3.73	47128.960	2.5	52033.260	1.5
2038.4996	25.00	-4.24	57485.970	2.5	62390.200	1.5
2038.5287	18.00	-3.22	119444.880	2.0	124349.040	3.0
2038.5786	14.00	-1.22	59118.030	3.0	64022.070	3.0
2038.6285	10.00	-2.26	168355.510	1.0	173259.430	1.0
2038.6447	26.00	-3.59	47136.058	2.0	52039.939	1.0
2038.6493	18.00	-2.90	118469.117	2.0	123372.987	2.0
2038.7283	18.01	-.17	201351.550	2.5	206255.230	2.5
2038.8680	14.00	-1.44	56978.256	1.0	61881.600	1.0
2038.8779	18.00	-2.31	117183.654	2.0	122086.974	2.0
2038.8987	14.00	-2.39	59118.030	3.0	64021.300	2.0
2038.9582	7.00	-4.11	111260.873	3.5	116164.000	2.5
2038.9582	7.00	-1.80	111260.873	3.5	116164.000	3.5
2038.9694	30.02	-1.59	300047.000	6.0	304950.100	5.0
2039.0177	7.00	-2.99	111204.016	2.5	116107.000	1.5
2039.2481	28.01	-3.69	95573.390	3.5	100475.820	3.5
2039.3937	18.00	-3.70	119847.810	1.0	124749.890	0.0
2039.3937	14.00	-3.31	59118.030	3.0	64020.110	4.0
2039.4187	15.00	-2.76	65787.380	3.5	70689.400	3.5
2039.5518	8.01	-3.13	251224.100	2.5	256125.800	2.5
2039.5581	13.00	-1.76	38929.405	1.5	43831.090	2.5
2039.5934	30.02	-2.16	300047.000	6.0	304948.600	5.0
2039.5934	30.02	-.27	300047.000	6.0	304948.600	6.0
2039.6267	28.01	-4.95	131221.090	3.5	136122.610	2.5
2039.6350	13.01	-.87	144964.700	4.0	149866.200	3.0
2039.6350	13.01	-1.76	144964.700	4.0	149866.200	3.0
2039.6350	13.01	-2.60	144964.700	3.0	149866.200	3.0
2039.6891	14.00	-4.72	59118.030	3.0	64019.400	3.0
2039.7182	30.02	-3.41	300048.800	5.0	304950.100	5.0
2039.7182	30.02	-1.64	300048.800	5.0	304950.100	4.0
2039.7699	28.00	-3.97	47139.392	2.0	52040.568	2.0
2039.8806	14.00	-2.91	58893.400	3.0	63794.310	2.0
2039.9264	10.00	-2.56	168358.630	1.0	173259.430	1.0
2040.2178	28.01	-.28	130730.530	2.5	135630.630	2.5
2040.3219	18.00	-4.32	120250.150	3.0	125150.000	3.0
2040.3219	18.00	-3.37	120250.150	4.0	125150.000	3.0
2040.3427	30.02	-.33	300048.800	5.0	304948.600	5.0
2040.3427	30.02	-4.38	300048.800	5.0	304948.600	6.0
2040.3635	10.00	-2.57	168355.510	1.0	173255.260	0.0
2040.4301	28.01	-4.68	131223.020	2.5	136122.610	2.5
2040.5551	28.01	.38	129367.910	6.5	134267.200	6.5
2040.5946	26.00	-2.03	43137.472	3.0	48036.667	2.0
2040.6472	18.00	-4.32	121165.431	3.0	126064.500	2.0
2040.6759	8.01	-4.71	251224.100	2.5	256123.100	3.5
2040.6842	10.01	-3.27	303237.910	1.5	308136.890	1.5
2040.7300	28.01	-.10	130730.530	2.5	135629.400	3.5
2040.8842	9.02	.27	452816.600	1.5	457715.100	2.5
2040.8925	23.02	-4.29	155981.500	3.5	160879.980	4.5
2040.9258	29.01	-1.95	133984.600	3.0	138883.000	4.0
2040.9675	18.00	-3.59	119760.220	1.0	124658.520	2.0
2041.0396	7.00	-4.47	111260.873	3.5	116159.000	2.5
2041.0396	7.00	-2.91	111260.873	3.5	116159.000	3.5
2041.0771	22.00	-4.28	41170.003	3.0	46068.040	4.0
2041.1038	22.00	-4.57	20209.444	2.0	25107.417	2.0
2041.1175	6.00	-3.32	83747.390	2.0	88645.330	1.0
2041.1175	6.00	-2.76	83747.390	2.0	88645.330	2.0
2041.1296	22.00	-4.06	15108.121	3.0	20006.032	2.0
2041.1362	14.00	-.40	56700.250	1.0	61598.145	2.0
2041.1550	28.01	-3.63	131133.580	2.5	136031.430	2.5
2041.1758	28.01	-3.71	131834.940	2.5	136732.740	1.5
2041.2209	26.00	-4.19	52916.278	2.0	57813.970	3.0
2041.2425	18.00	-3.41	121191.920	2.0	126089.560	3.0
2041.3759	23.02	-2.53	156130.000	4.5	161027.320	4.5
2041.3801	10.01	-1.34	303279.910	2.5	308177.220	1.5
2041.4538	13.00	-1.61	38933.961	2.5	43831.094	3.5
2041.4555	13.00	-2.91	38933.961	2.5	43831.090	2.5
2041.5931	37.00	-1.04	23792.591	0.0	28690.727	0.0
2041.6135	28.01	-3.30	131620.450	1.5	136517.200	.5
2041.6636	10.00	-2.26	168358.630	1.0	173255.260	0.0
2041.8000	20.00	-2.85	43933.477	1.0	48829.780	2.0
2041.8846	27.00	-4.08	47225.110	3.5	52121.210	4.5
2042.0264	14.00	-3.20	45293.629	2.0	50189.389	2.0
2042.0393	26.00	-3.00	42859.756	2.0	47755.485	3.0
2042.1557	18.01	-4.42	150147.620	2.5	155043.070	2.5
2042.2183	30.02	-1.95	260418.100	2.0	265313.400	2.0
2042.3184	22.00	-4.10	39686.100	2.0	44581.160	2.0
2042.4394	28.01	-4.58	115108.090	2.5	120002.860	3.5
2042.4603	14.02	.01	244871.470	1.0	249766.190	1.0
2042.5000	2.00	-1.08	190298.000	0.0	195193.961	0.0
2042.5370	37.00	-2.00	23792.591	0.0	28688.463	0.0
2042.5396	10.01	-1.71	276276.850	1.5	281171.380	2.5
2042.5842	17.00	-3.77	97338.887	2.5	102233.310	2.5
2042.6752	26.00	-4.67	40534.180	3.0	45428.385	4.0
2042.7315	28.01	.27	130751.030	5.5	135645.100	5.5
2042.7524	23.02	-3.28	155682.600	3.5	160576.620	3.5
2042.7524	18.01	-.07	201351.550	2.5	206245.570	3.5
2042.8025	30.02	-3.96	300048.800	5.0	304942.700	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2042.8739	7.00	-3.33	111213.271	1.5	116107.000	.5
2042.8739	7.00	-2.43	111213.271	1.5	116107.000	1.5
2043.0947	13.01	-.56	142607.000	2.0	147500.200	3.0
2043.1532	28.01	-.97	130730.530	2.5	135623.590	1.5
2043.4271	7.00	-2.11	111271.596	.5	116164.000	.5
2043.4271	7.00	-2.28	111271.596	.5	116164.000	1.5
2043.5666	28.01	.45	130730.530	2.5	135622.600	3.5
2044.0513	6.00	-2.83	83747.390	2.0	88638.300	2.0
2044.0513	6.00	-2.26	83747.390	2.0	88638.300	3.0
2044.0847	18.00	-4.88	119760.220	1.0	124651.050	1.0
2044.1391	15.01	-.78	125129.700	3.0	130020.400	3.0
2044.1696	10.00	-2.03	167591.233	2.0	172481.860	1.0
2044.2168	17.00	-1.23	95612.357	1.5	100502.871	1.5
2044.2896	28.01	-.66	129396.040	5.5	134286.380	4.5
2044.3314	26.00	-3.44	47177.210	1.0	52067.450	2.0
2044.4693	14.00	-1.18	58893.400	3.0	63783.310	4.0
2044.5697	6.00	-3.19	83877.310	1.0	88766.980	1.0
2044.5781	7.01	-4.45	205350.180	2.0	210239.830	1.0
2044.6408	28.01	-1.55	130751.030	5.5	135640.530	4.5
2044.6408	30.02	-1.27	300053.200	2.0	304942.700	3.0
2044.6910	28.01	-.33	130730.530	2.5	135619.910	1.5
2044.7119	28.01	-3.93	131233.280	3.5	136122.610	2.5
2044.8080	15.00	-2.62	76875.400	1.5	81764.500	1.5
2044.9252	27.00	-4.32	46671.940	2.5	51560.760	2.5
2044.9796	6.00	-3.10	83947.430	3.0	88836.120	3.0
2045.0423	23.00	-4.60	37475.080	3.5	42363.620	3.5
2045.2055	28.01	.07	130710.850	.5	135599.000	.5
2045.4398	28.01	-1.76	130757.510	4.5	135645.100	5.5
2045.4565	28.01	.25	130730.530	2.5	135618.080	2.5
2045.5130	28.00	-2.51	50689.490	2.0	55576.905	3.0
2045.5528	28.01	.87	131637.100	3.5	136524.420	4.5
2045.8583	6.00	-1.91	83747.390	2.0	88633.980	3.0
2045.9128	18.01	-.35	185624.730	3.5	190511.190	2.5
2045.9802	28.00	-2.52	48817.600	1.0	53703.899	1.0
2045.9961	7.00	-5.00	110710.739	2.5	115597.000	1.5
2046.1838	17.00	-3.99	94468.857	.5	99354.670	1.5
2046.2646	28.01	.09	129396.040	5.5	134281.660	5.5
2046.3148	29.01	-2.09	141542.100	2.0	146427.600	1.0
2046.6081	30.02	.68	302804.300	5.0	307689.100	6.0
2046.6081	30.02	-1.14	302804.300	5.0	307689.100	5.0
2046.6164	24.00	-4.26	50102.040	3.0	54986.820	3.0
2046.8847	10.01	-.71	302890.570	2.5	307774.710	1.5
2046.9056	10.00	-2.33	167591.233	2.0	172475.323	2.0
2046.9140	6.00	-3.03	83761.260	3.0	88645.330	2.0
2047.0816	18.00	-2.54	120229.810	3.0	125113.480	2.0
2047.0908	26.00	-3.29	47136.058	2.0	52019.706	1.0
2047.1151	10.01	-.38	302425.870	1.5	307309.460	.5
2047.1558	17.00	-1.27	97338.887	2.5	102222.380	3.5
2047.1906	18.00	-3.52	120230.070	2.0	125113.480	2.0
2047.1931	7.00	-2.70	111271.596	.5	116155.000	1.5
2047.1931	7.00	-3.90	111271.596	.5	116155.000	.5
2047.1990	28.01	1.10	129367.910	6.5	134251.300	7.5
2047.2074	22.00	-1.81	42311.310	3.0	47194.680	4.0
2047.2275	26.00	-4.25	46720.824	4.0	51604.146	3.0
2047.2284	18.00	-4.32	119760.220	1.0	124643.540	1.0
2047.3541	28.01	.21	130757.510	4.5	135640.530	4.5
2047.4044	28.01	-2.83	116167.760	1.5	121050.660	2.5
2047.4212	28.01	-3.14	115120.000	2.5	120002.860	3.5
2047.4296	23.02	-3.38	155496.800	1.5	160379.640	2.5
2047.4556	17.00	-1.37	95706.534	1.5	100589.312	2.5
2047.5722	13.01	-1.52	143170.000	1.0	148052.500	1.0
2047.5722	13.01	-1.21	143170.000	2.0	148052.500	1.0
2047.5722	13.01	-1.91	143170.000	0.0	148052.500	1.0
2047.6158	18.00	-1.66	120600.944	2.0	125483.340	2.0
2047.6913	18.00	-.33	120600.944	2.0	125483.160	3.0
2047.7315	22.00	-3.79	37976.780	2.0	42858.900	3.0
2047.7471	26.00	-4.35	46888.494	2.0	51770.577	3.0
2047.8658	28.01	-4.91	116312.340	1.5	121194.140	2.5
2047.8842	18.00	-2.10	120600.944	2.0	125482.700	3.0
2047.9115	14.00	-2.40	57468.239	2.0	62349.930	2.0
2047.9287	18.01	-4.43	204133.980	2.5	209015.630	3.5
2047.9761	26.00	-2.69	44676.963	4.0	49558.500	4.0
2048.0122	26.00	-3.12	46889.126	4.0	51770.577	3.0
2048.0294	6.00	-4.46	84032.150	1.0	88913.560	2.0
2048.0378	28.01	-3.72	128853.870	2.5	133735.260	2.5
2048.1720	28.01	-4.35	128853.910	4.5	133734.980	3.5
2048.3227	14.00	-3.14	59109.959	3.0	63990.670	2.0
2048.3273	30.02	.59	302808.400	4.0	307689.100	5.0
2048.3315	10.00	-1.86	168378.740	2.0	173259.430	1.0
2048.3693	30.02	-1.22	300047.000	6.0	304927.600	6.0
2048.3693	30.02	.74	300047.000	6.0	304927.600	7.0
2048.5120	28.01	-.41	101740.270	3.5	106620.530	3.5
2048.5455	14.00	-3.17	58893.400	3.0	63773.580	2.0
2048.6434	26.00	-3.89	48928.423	2.0	53808.370	1.0
2048.6673	14.00	-3.97	58893.400	3.0	63773.290	3.0
2048.6862	28.00	-3.52	44206.185	3.0	49086.030	4.0
2048.7081	17.00	-1.91	97338.887	2.5	102218.680	2.5
2048.7093	28.01	-2.28	100619.260	4.5	105499.050	3.5
2048.7144	14.00	-4.82	59110.892	2.0	63990.670	2.0
2048.7639	24.00	-.22	48661.590	3.0	53541.250	2.0
2048.8339	17.00	-3.24	97338.887	2.5	102218.380	1.5
2048.9348	17.00	-1.75	97354.057	1.5	102233.310	2.5
2048.9906	23.00	-3.28	17242.050	5.5	22121.170	4.5
2048.9990	29.01	-.38	146496.200	3.0	151375.300	2.0
2049.1250	30.02	.67	300048.800	5.0	304927.600	6.0
2049.2174	28.01	.37	129396.040	5.5	134274.620	5.5
2049.2636	23.01	-3.57	32040.760	2.0	36919.230	3.0
2049.3115	7.00	-3.10	111285.644	1.5	116164.000	.5
2049.3115	7.00	-2.48	111285.644	1.5	116164.000	1.5
2049.3115	7.00	-2.67	111285.644	1.5	116164.000	2.5
2049.3934	18.00	-4.76	120188.340	1.0	125066.501	2.0
2049.5871	15.00	-3.19	76192.300	1.5	81070.000	1.5
2049.5955	28.01	-.41	131670.870	2.5	136548.550	2.5
2049.6712	30.02	.17	300053.200	2.0	304930.700	3.0
2049.6712	30.02	-.66	300053.200	2.0	304930.700	2.0
2049.7216	28.01	-.77	130751.030	5.5	135628.410	4.5
2049.8431	26.00	-3.50	46727.055	2.0	51604.146	3.0
2049.8645	6.00	-3.00	83761.260	3.0	88638.300	2.0
2049.8645	6.00	-1.91	83761.260	3.0	88638.300	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2050.0873	27.00	-3.81	44201.920	2.5	49078.430	1.5
2050.1924	28.01	.32	131670.870	2.5	136547.130	3.5
2050.2471	18.01	-3.82	150474.900	1.5	155351.030	1.5
2050.4699	15.00	-4.81	76425.200	2.5	81300.800	1.5
2050.4909	28.01	-.33	129396.040	5.5	134271.590	4.5
2050.5414	28.01	-.33	131655.830	.5	136531.260	1.5
2050.5835	27.00	-4.46	46685.430	1.5	51560.760	2.5
2050.6087	28.01	.44	130765.260	3.5	135640.530	4.5
2050.6676	28.01	-4.98	117972.470	3.5	122847.600	3.5
2050.6684	20.00	-4.96	33317.264	0.0	38192.392	1.0
2050.7770	28.01	-4.26	116824.150	2.5	121699.020	1.5
2050.8022	28.01	-2.02	116167.760	1.5	121042.570	1.5
2050.8232	28.01	-4.09	116167.760	1.5	121042.520	1.5
2050.8556	20.00	-3.78	42170.558	3.0	47045.241	3.0
2050.8906	28.01	-3.75	52205.950	3.5	57080.550	3.5
2050.9032	29.01	-3.62	128853.300	2.0	133727.870	2.0
2050.9116	21.00	-3.50	37086.310	1.5	41960.860	2.5
2051.0041	14.00	-1.39	54257.582	3.0	59131.912	4.0
2051.0525	20.00	-2.72	42171.026	4.0	47045.241	3.0
2051.2062	56.01	-8.25	0.000	0.0	4875.180	0.0
2051.2238	22.00	-4.02	29661.232	1.0	34535.040	2.0
2051.3114	29.01	-2.30	141542.100	2.0	146415.700	2.0
2051.4140	7.00	-2.46	111285.644	1.5	116159.000	2.5
2051.4545	27.00	-3.78	48828.870	2.5	53702.130	3.5
2051.6440	6.00	-.98	83761.260	3.0	88634.070	4.0
2051.6819	6.00	-2.08	83761.260	3.0	88633.980	3.0
2051.7281	26.00	-3.48	47177.210	1.0	52049.820	2.0
2051.7324	24.00	-4.16	50102.040	3.0	54974.640	2.0
2051.7407	18.00	-3.85	121191.920	2.0	126064.500	2.0
2051.8022	17.00	-1.53	94482.236	2.5	99354.670	1.5
2051.8166	27.00	-4.26	49484.050	3.5	54356.450	4.5
2051.8709	20.00	.52	37298.287	2.0	42170.558	3.0
2051.9050	19.00	-2.40	28999.270	.5	33871.460	.5
2051.9476	22.00	-4.17	37852.021	1.0	42724.110	2.0
2052.0158	20.00	-.38	37298.287	2.0	42170.214	2.0
2052.0314	28.01	-.79	130757.510	4.5	135629.400	3.5
2052.1581	12.00	-1.51	56308.381	2.0	61179.970	2.0
2052.1581	12.00	-1.66	56308.381	2.0	61179.970	3.0
2052.1581	12.00	-.42	56308.381	2.0	61179.970	3.0
2052.1644	14.00	-1.03	56690.903	2.0	61562.477	3.0
2052.2336	28.01	.51	131670.870	2.5	136542.280	3.5
2052.3389	28.01	.71	129396.040	5.5	134267.200	6.5
2052.4189	27.00	-2.39	46329.630	2.5	51200.600	1.5
2052.4484	28.01	-1.80	130757.510	4.5	135628.410	4.5
2052.4611	28.01	-2.63	94283.940	4.5	99154.810	4.5
2052.4990	28.01	-3.92	131115.280	4.5	135986.060	3.5
2052.5120	17.00	-3.50	94663.670	1.5	99534.419	.5
2052.5445	26.00	-3.45	45833.240	4.0	50703.912	5.0
2052.5791	27.00	-2.66	43847.980	3.5	48718.570	2.5
2052.5917	27.00	-4.47	47393.930	2.5	52264.490	1.5
2052.6044	28.01	-.92	129367.910	6.5	134238.440	6.5
2052.6381	26.00	-3.71	47197.000	2.0	52067.450	2.0
2052.7182	18.01	-1.69	195281.380	.5	200151.640	1.5
2052.8488	27.00	-2.84	46329.630	2.5	51199.580	3.5
2052.8741	27.00	-3.62	47225.110	3.5	52095.000	3.5
2052.9150	20.00	-3.72	42170.214	2.0	47040.007	2.0
2053.0006	26.02	-4.96	200325.560	4.0	205195.150	5.0
2053.0217	24.00	-4.65	31028.330	2.0	35897.870	2.0
2053.0301	14.00	-1.12	58893.400	3.0	63762.920	4.0
2053.0600	20.00	-2.82	42170.558	3.0	47040.007	2.0
2053.0993	7.00	-3.17	111285.644	1.5	116155.000	.5
2053.0993	7.00	-2.78	111285.644	1.5	116155.000	1.5
2053.2072	24.00	-4.74	50105.540	1.0	54974.640	2.0
2053.2451	23.00	-3.61	34529.810	4.5	39398.820	3.5
2053.3337	14.00	-3.39	58893.400	3.0	63762.200	3.0
2053.3379	25.00	-2.99	57485.970	2.5	62354.760	1.5
2053.4046	28.00	-1.09	47328.850	2.0	52197.482	3.0
2053.4645	9.02	-.14	452577.900	.5	457446.390	.5
2053.4944	26.00	-3.70	47171.520	0.0	52039.939	1.0
2053.5615	28.01	-3.90	128867.000	3.5	133735.260	2.5
2053.5657	27.00	-4.49	49484.050	3.5	54352.300	3.5
2053.5960	14.00	-2.85	57798.072	2.0	62666.250	1.0
2053.8441	22.00	-4.60	42107.060	4.0	46974.650	5.0
2053.8610	26.02	-4.95	179579.830	5.0	184447.380	6.0
2053.8648	14.00	-2.06	45321.848	3.0	50189.389	2.0
2053.9235	14.00	-3.56	58774.368	3.0	63641.770	3.0
2054.0074	20.00	-2.31	42514.845	0.0	47382.048	1.0
2054.0509	30.02	.05	300083.000	3.0	304950.100	4.0
2054.0551	22.00	-4.33	40844.190	3.0	45711.280	4.0
2054.1775	28.01	.14	129419.580	4.5	134286.380	4.5
2054.2619	30.02	.21	300076.100	2.0	304942.700	3.0
2054.2915	23.00	-3.46	34374.810	3.5	39241.340	2.5
2054.4983	26.00	-4.09	46888.494	2.0	51754.534	1.0
2054.5106	20.00	-2.95	42170.214	2.0	47036.225	1.0
2054.6322	22.00	-3.04	39715.437	3.0	44581.160	2.0
2054.6419	27.00	-3.89	48828.870	2.5	53694.570	3.5
2054.7433	25.00	-1.78	57621.900	1.5	62487.360	2.5
2054.7813	28.01	-.45	130765.260	3.5	135630.630	2.5
2054.8995	28.01	-4.38	130757.510	4.5	135622.600	3.5
2054.9967	28.01	-3.62	117972.470	3.5	122837.330	4.5
2055.0968	17.00	-.73	97354.057	1.5	102218.680	2.5
2055.1023	28.01	-4.27	134238.440	6.5	139103.050	5.5
2055.1551	22.00	-4.16	17540.205	3.0	22404.690	3.0
2055.1775	8.00	-3.58	103869.968	2.0	108734.400	1.0
2055.1775	8.00	-2.41	103869.968	2.0	108734.400	2.0
2055.1775	8.00	-1.66	103869.968	2.0	108734.400	3.0
2055.2028	8.00	-2.41	103870.028	1.0	108734.400	1.0
2055.2028	8.00	-1.93	103870.028	1.0	108734.400	2.0
2055.2235	17.00	-1.60	97354.057	1.5	102218.380	1.5
2055.2485	18.00	-1.51	120619.076	2.0	125483.340	2.0
2055.2975	8.00	-2.28	103870.252	0.0	108734.400	1.0
2055.3009	28.01	.34	130765.260	3.5	135629.400	3.5
2055.3161	14.00	-1.36	57017.496	2.0	61881.600	1.0
2055.3245	18.00	-2.81	120619.076	2.0	125483.160	3.0
2055.4656	19.00	-2.10	29007.710	1.5	33871.460	.5
2055.4935	14.00	-3.00	56978.256	1.0	61841.940	2.0
2055.5189	18.00	-.36	120619.076	2.0	125482.700	3.0
2055.5713	13.01	-.26	139916.700	1.0	144780.200	2.0
2055.5713	8.01	-3.91	251224.100	2.5	256087.600	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2055.6390	20.00	-2.31	42518.708	1.0	47382.048	1.0
2055.6432	18.00	-4.22	120250.150	3.0	125113.480	2.0
2055.7108	18.00	-1.84	115366.900	1.0	120230.070	2.0
2055.7193	28.01	.31	130765.260	3.5	135628.410	4.5
2055.7290	7.00	-1.93	111260.873	3.5	116124.000	2.5
2055.7839	17.00	-1.34	90749.360	2.5	95612.357	1.5
2055.8249	13.01	-1.97	143269.800	3.0	148132.700	2.0
2055.8972	26.00	-4.82	47177.210	1.0	52039.939	1.0
2055.9180	24.00	-4.73	28679.430	1.0	33542.110	2.0
2055.9518	29.01	.18	146556.600	3.0	151419.200	3.0
2056.0575	28.01	-1.24	129424.030	5.5	134286.380	4.5
2056.1717	28.01	.28	129419.580	4.5	134281.660	5.5
2056.4720	28.01	.04	131655.830	.5	136517.200	.5
2056.5117	10.00	-3.35	158795.992	1.0	163657.268	1.0
2056.5862	28.01	-4.67	131124.960	3.5	135986.060	3.5
2056.8104	28.01	-1.11	131686.560	4.5	136547.130	3.5
2056.8785	18.00	-2.49	112138.980	2.0	116999.389	2.0
2056.8866	28.01	-1.70	131670.870	2.5	136531.260	1.5
2057.0771	28.01	.10	131686.560	4.5	136546.500	4.5
2057.0813	24.00	-3.91	28682.180	2.0	33542.110	2.0
2057.1232	28.00	-1.52	44314.980	4.0	49174.811	4.0
2057.1787	30.02	-.22	300083.000	3.0	304942.700	3.0
2057.1787	30.02	.01	300083.000	3.0	304942.700	4.0
2057.1817	14.00	-2.80	57372.297	2.0	62231.990	2.0
2057.2210	15.00	-2.88	75689.200	1.5	80548.800	2.5
2057.2887	6.00	-3.84	81325.760	1.0	86185.200	2.0
2057.3057	29.01	-1.36	146559.800	4.0	151419.200	3.0
2057.3806	17.00	-2.66	96313.330	1.5	101172.553	1.5
2057.3946	28.01	-2.42	116191.470	2.5	121050.660	2.5
2057.4026	26.00	-3.43	46744.975	3.0	51604.146	3.0
2057.8435	22.00	-3.88	20062.980	1.0	24921.110	1.0
2058.0425	18.01	-.87	194822.100	3.5	199679.760	2.5
2058.0553	28.01	-.03	129424.030	5.5	134281.660	5.5
2058.1300	2.00	-.42	166278.000	0.0	171136.780	0.0
2058.1782	28.01	-.06	130765.260	3.5	135622.600	3.5
2058.2206	18.01	-4.47	200138.850	3.5	204996.090	3.5
2058.2244	17.00	-2.13	95313.749	1.5	100170.980	1.5
2058.2884	14.02	.96	249817.320	3.0	254674.400	4.0
2058.3222	23.00	-2.15	19078.150	3.5	23935.150	2.5
2058.3307	28.01	-.80	112906.930	1.5	117763.910	1.5
2058.3308	10.01	-1.02	303279.910	2.5	308136.890	1.5
2058.4536	28.01	-3.05	116468.400	1.5	121325.090	2.5
2058.5130	14.02	-.58	249817.850	4.0	254674.400	4.0
2058.5130	14.02	1.06	249817.850	4.0	254674.400	5.0
2058.5130	14.02	-2.58	249817.850	4.0	254674.400	5.0
2058.5511	14.02	-3.52	249817.940	4.0	254674.400	5.0
2058.5511	14.02	1.06	249817.940	4.0	254674.400	5.0
2058.5511	14.02	-.68	249817.940	4.0	254674.400	4.0
2058.8648	28.01	-1.43	131686.560	4.5	136542.280	3.5
2058.9709	14.02	-.58	249818.930	5.0	254674.400	5.0
2058.9709	14.02	-.69	249818.930	5.0	254674.400	5.0
2058.9709	14.02	1.14	249818.930	5.0	254674.400	6.0
2058.9709	14.02	-2.32	249818.930	5.0	254674.400	4.0
2058.9764	20.00	-1.61	42526.591	2.0	47382.048	1.0
2058.9878	7.01	-1.19	197858.690	1.0	202714.120	1.0
2059.0132	28.01	-.31	99442.860	4.5	104298.230	4.5
2059.0557	28.01	1.04	130751.030	5.5	135606.300	6.5
2059.0684	26.00	-1.16	49558.500	4.0	54413.740	3.0
2059.0727	15.00	-.78	68088.270	1.5	72943.500	.5
2059.0981	28.01	-.85	130751.030	5.5	135606.200	5.5
2059.1532	28.01	.53	129419.580	4.5	134274.620	5.5
2059.2083	14.00	-3.38	58786.860	3.0	63641.770	3.0
2059.2817	17.00	-4.77	94827.150	2.5	99681.887	1.5
2059.3398	30.02	-.75	300076.100	2.0	304930.700	3.0
2059.3398	30.02	-.35	300076.100	2.0	304930.700	2.0
2059.3568	28.01	-2.11	114942.420	1.5	119796.980	2.5
2059.4205	18.01	-3.80	191012.350	1.5	195866.760	1.5
2059.5549	14.00	-2.35	57372.297	2.0	62226.390	1.0
2059.5816	18.01	-1.73	195297.610	1.5	200151.640	1.5
2059.7853	22.00	-5.00	41871.870	2.0	46725.420	3.0
2059.8490	28.01	-2.94	94705.930	3.5	99559.330	2.5
2059.8532	24.00	-3.59	30787.300	1.0	35640.690	0.0
2059.8872	14.00	-1.07	54257.582	3.0	59110.892	2.0
2059.9636	29.01	-1.73	118163.500	2.0	123016.630	3.0
2059.9806	26.01	-4.95	45289.840	1.5	50142.930	2.5
2060.0273	26.00	-2.76	45333.834	2.0	50186.814	2.0
2060.0655	14.00	-1.99	58788.880	4.0	63641.770	3.0
2060.0952	28.01	-.37	130765.260	3.5	135618.080	2.5
2060.0952	26.00	-3.92	47197.000	2.0	52049.820	2.0
2060.1517	28.00	-2.37	44475.158	2.0	49327.845	2.0
2060.2718	7.00	-3.51	111271.596	.5	116124.000	.5
2060.2718	7.00	-2.42	111271.596	.5	116124.000	1.5
2060.2832	14.00	.26	54257.582	3.0	59109.959	3.0
2060.2947	20.02	-2.67	336749.110	1.0	341601.460	2.0
2060.3075	19.00	-3.55	28999.270	.5	33851.590	1.5
2060.3202	18.01	-4.21	191012.350	1.5	195864.640	2.5
2060.4119	26.00	-4.34	43108.899	4.0	47960.973	4.0
2060.4391	28.01	.45	129419.580	4.5	134271.590	4.5
2060.4433	30.02	-.49	300098.100	4.0	304950.100	4.0
2060.4433	30.02	.39	300098.100	4.0	304950.100	5.0
2060.6599	18.01	-.62	209337.870	4.5	214189.360	4.5
2060.6684	26.00	-4.13	46888.494	2.0	51739.964	2.0
2060.8044	18.01	-2.27	209338.210	3.5	214189.360	4.5
2060.8256	28.01	-2.33	116191.470	2.5	121042.570	1.5
2060.8469	28.01	-4.81	116191.470	2.5	121042.520	1.5
2060.9191	22.00	-2.47	42123.770	6.0	46974.650	5.0
2061.0423	28.01	.14	129424.030	5.5	134274.620	5.5
2061.0805	30.02	-.26	300098.100	4.0	304948.600	5.0
2061.3143	23.00	-2.35	34747.060	3.5	39597.010	4.5
2061.3440	18.01	-.82	201781.790	2.5	206631.670	2.5
2061.4205	22.00	-4.65	41988.390	3.0	46838.090	4.0
2061.5183	28.01	-4.67	116312.340	1.5	121161.810	1.5
2061.5481	13.01	-1.63	142601.600	3.0	147451.000	3.0
2061.5481	13.01	-.19	142601.600	3.0	147451.000	4.0
2061.5481	13.01	-3.23	142601.600	3.0	147451.000	4.0
2061.5863	24.00	-3.70	49822.590	2.0	54671.900	1.0
2061.6191	18.00	-.76	107289.747	2.0	112138.980	2.0
2061.6501	18.01	-.91	184191.710	.5	189040.870	1.5
2061.7096	24.00	-4.46	31048.850	1.0	35897.870	2.0
2061.7585	17.00	-1.88	95400.731	2.5	100249.636	2.5
2061.7861	28.01	-2.48	94283.940	4.5	99132.780	5.5
2061.8499	28.01	.95	130757.510	4.5	135606.200	5.5
2062.0583	18.01	-1.83	195031.120	2.5	199879.320	3.5
2062.0643	26.00	-3.25	47171.520	0.0	52019.706	1.0
2062.2710	30.02	-.41	300083.000	3.0	304930.700	3.0
2062.2710	30.02	-1.03	300083.000	3.0	304930.700	2.0
2062.3306	28.01	-.61	129424.030	5.5	134271.590	4.5
2062.4837	29.01	-.79	146556.600	3.0	151403.800	2.0
2062.6029	18.01	-2.38	209337.870	4.5	214184.790	3.5
2062.6173	28.00	-1.53	47424.830	1.0	52271.716	2.0
2062.6242	6.00	-2.02	83947.430	3.0	88794.300	2.0
2062.7476	23.00	-2.01	17116.920	3.5	21963.500	3.5
2062.7476	18.01	-.72	209338.210	3.5	214184.790	3.5
2062.8101	7.00	-3.53	111143.567	.5	115990.000	.5
2062.8101	7.00	-3.83	111143.567	.5	115990.000	1.5
2062.9417	17.00	-2.09	95400.731	2.5	100246.855	1.5
2063.0796	29.01	-.85	146556.600	3.0	151402.400	3.0
2063.1796	12.00	.13	49346.729	1.0	54192.294	2.0
2063.2371	18.00	-1.04	119212.930	3.0	124058.360	3.0
2063.2371	18.00	-1.24	119212.930	3.0	124058.360	4.0
2063.2457	28.01	-4.22	130900.650	2.5	135746.060	3.5
2063.2712	14.00	-1.54	49399.670	1.0	54245.020	0.0
2063.2925	13.01	.03	144780.200	2.0	149625.500	3.0
2063.2951	14.00	-1.81	56978.256	1.0	61823.550	2.0
2063.3436	26.00	-2.81	42532.729	3.0	47377.909	4.0
2063.4671	27.00	-3.92	47225.110	3.5	52070.000	2.5
2063.5864	28.01	-4.86	133169.920	3.5	138014.530	2.5
2063.5906	30.02	-.14	300098.100	4.0	304942.700	4.0
2063.5906	30.02	-1.27	300098.100	4.0	304942.700	3.0
2063.6119	6.00	-2.45	84116.090	1.0	88960.640	0.0
2063.6613	8.00	-2.11	103625.766	1.0	108470.200	0.0
2063.6613	8.00	-1.76	103625.766	1.0	108470.200	1.0
2063.6613	8.00	-1.87	103625.766	1.0	108470.200	2.0
2063.7568	18.01	-4.88	200234.860	2.5	205079.070	2.5
2063.8135	8.00	-2.23	103626.123	2.0	108470.200	1.0
2063.8135	8.00	-1.64	103626.123	2.0	108470.200	2.0
2063.8135	8.00	-1.44	103626.123	2.0	108470.200	3.0
2063.8888	29.01	.43	146575.300	2.0	151419.200	3.0
2063.8973	19.00	-4.16	29007.710	1.5	33851.590	1.5
2063.9144	19.00	-3.21	29007.710	1.5	33851.550	2.5
2063.9442	28.01	.87	130801.330	4.5	135645.100	5.5
2063.9613	22.00	-4.56	43744.550	4.0	48588.280	3.0
2064.0265	8.00	-2.59	103626.623	3.0	108470.200	2.0
2064.0265	8.00	-1.74	103626.623	3.0	108470.200	3.0
2064.0265	8.00	-1.15	103626.623	3.0	108470.200	4.0
2064.0384	28.00	-.27	44314.980	4.0	49158.529	5.0
2064.1019	15.00	-2.41	75705.400	3.5	80548.800	2.5
2064.1172	26.00	-4.47	48702.518	4.0	53545.882	3.0
2064.1999	28.01	.53	129424.030	5.5	134267.200	6.5
2064.2613	22.00	-6.53	12118.394	4.0	16961.420	3.0
2064.2984	26.00	-3.83	47197.000	2.0	52039.939	1.0
2064.4429	23.00	-1.10	37075.640	4.5	41918.240	5.5
2064.4429	29.01	-.54	146559.800	4.0	151402.400	3.0
2064.4872	26.00	-3.04	47177.210	1.0	52019.706	1.0
2064.4898	28.01	.07	129419.580	4.5	134262.070	3.5
2064.5282	28.01	.57	129396.040	5.5	134238.440	6.5
2064.5713	10.00	-2.16	167639.561	1.0	172481.860	1.0
2064.6944	18.01	.51	201781.790	2.5	206623.800	3.5
2064.6987	30.02	.13	300108.100	3.0	304950.100	4.0
2064.7140	18.00	-.62	111818.090	1.0	116660.054	1.0
2064.7840	6.00	-3.20	84032.150	1.0	88873.950	2.0
2064.9119	30.02	-1.32	257678.700	2.0	262520.200	2.0
2064.9546	29.01	-2.75	141733.900	2.0	146575.300	2.0
2065.0237	17.00	0.00	94827.150	2.5	99668.388	3.5
2065.0356	6.00	-2.98	81343.990	2.0	86185.200	2.0
2065.0527	18.00	-2.79	119212.930	3.0	124054.100	3.0
2065.0868	18.01	-1.05	186171.260	.5	191012.350	1.5
2065.4708	9.00	-2.66	119081.820	.5	123922.010	1.5
2065.6672	6.00	-2.44	83798.570	4.0	88638.300	3.0
2065.6966	26.00	-4.88	49227.160	3.0	54066.821	2.0
2065.8037	26.00	-4.74	49227.160	3.0	54066.570	4.0
2065.8934	28.01	-1.27	130801.330	4.5	135640.530	4.5
2066.0069	22.00	-3.10	36200.940	5.0	41039.874	5.0
2066.0983	18.00	-2.15	119212.930	3.0	124051.650	2.0
2066.1021	28.00	-3.06	44336.100	4.0	49174.811	4.0
2066.1098	28.00	-1.05	44475.158	2.0	49313.851	3.0
2066.1880	18.00	-1.83	119212.930	3.0	124051.440	3.0
2066.2537	7.00	-2.82	111285.644	1.5	116124.000	.5
2066.2537	7.00	-2.91	111285.644	1.5	116124.000	1.5
2066.2537	7.00	-2.58	111285.644	1.5	116124.000	2.5
2066.3391	26.00	-3.70	46901.808	1.0	51739.964	2.0
2066.4058	30.02	-1.83	260418.100	2.0	265256.100	3.0
2066.4656	28.01	-.77	131686.560	4.5	136524.420	4.5
2066.4912	28.01	-4.23	131122.280	5.5	135960.080	4.5
2066.6065	6.00	-2.95	84935.340	1.0	89772.870	2.0
2066.6322	14.02	-.29	244928.720	0.0	249766.190	1.0
2066.6736	14.00	-1.91	57583.657	4.0	62421.030	3.0
2066.7467	7.00	-4.93	111326.798	2.5	116164.000	1.5
2066.7467	7.00	-3.38	111326.798	2.5	116164.000	2.5
2066.7467	7.00	-1.56	111326.798	2.5	116164.000	3.5
2067.0762	18.00	-3.50	120230.070	2.0	125066.501	2.0
2067.3621	10.00	-2.86	167639.561	1.0	172475.323	2.0
2067.4742	6.00	-1.14	83798.570	4.0	88634.070	4.0
2067.5127	6.00	-2.71	83798.570	4.0	88633.980	3.0
2067.5152	7.00	-3.40	111271.596	.5	116107.000	1.5
2067.5152	7.00	-3.30	111271.596	.5	116107.000	.5
2067.5605	26.00	-3.41	47377.909	4.0	52213.207	3.0
2067.5673	26.00	-3.51	46313.610	2.0	51148.892	2.0
2067.6319	14.00	-3.47	59109.959	3.0	63945.090	3.0
2067.6452	28.01	-4.04	115209.850	3.5	120044.950	4.5
2067.7136	23.00	-1.86	37025.600	3.5	41860.540	4.5
2067.7491	26.00	-4.30	48928.423	2.0	53763.280	3.0
2067.7649	26.00	-4.21	49297.660	1.0	54132.480	1.0
2067.8419	28.01	-4.17	116312.340	1.5	121146.980	2.5
2067.8590	30.02	-.76	300108.100	3.0	304942.700	3.0
2067.8590	30.02	.11	300108.100	3.0	304942.700	4.0
2067.8718	29.01	-3.34	133984.600	3.0	138819.170	3.0
2068.0310	14.00	-4.01	59110.892	2.0	63945.090	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2068.1799	10.01	-.81	302475.610	.5	307309.460	.5
2068.2398	18.00	-.26	119212.930	3.0	124046.640	4.0
2068.4280	28.01	-.72	129419.580	4.5	134252.850	3.5
2068.4494	10.00	-2.34	167648.640	2.0	172481.860	1.0
2068.5393	19.00	-1.46	27397.100	2.5	32230.110	1.5
2068.6164	14.02	-.29	244933.360	1.0	249766.190	1.0
2068.6378	26.00	-3.88	49850.610	3.0	54683.390	4.0
2068.7148	30.02	-1.20	300098.100	4.0	304930.700	3.0
2068.8261	28.00	-3.35	47208.228	1.0	52040.568	2.0
2068.8304	26.01	-4.96	74606.970	2.5	79439.300	3.5
2068.8852	7.00	-3.33	111326.798	2.5	116159.000	2.5
2068.9846	19.00	-2.42	27398.140	1.5	32230.110	1.5
2069.2629	18.01	-1.67	204417.230	1.5	209248.550	2.5
2069.2800	22.00	-2.19	42206.880	2.0	47038.160	3.0
2069.3100	24.00	-3.56	30787.300	1.0	35618.510	1.0
2069.4000	6.03	-.90	320049.000	0.0	324881.319	0.0
2069.8391	26.00	-2.15	40231.312	2.0	45061.287	3.0
2069.8498	26.00	-3.56	48231.330	5.0	53061.280	5.0
2069.8721	14.00	.13	54205.090	2.0	59034.988	3.0
2069.9999	15.00	-2.75	75353.400	1.5	80183.000	2.5
2070.0714	7.00	-3.67	111143.567	.5	115973.000	1.5
2070.1284	19.00	-1.72	27398.140	1.5	32227.440	.5
2070.1614	20.00	-2.85	43933.477	1.0	48762.700	2.0
2070.2227	28.01	-4.07	68156.570	1.5	72985.650	1.5
2070.2399	18.01	-2.18	186340.480	1.5	191169.520	1.5
2070.2982	28.00	-.21	51343.800	2.0	56172.704	3.0
2070.4543	6.00	-4.58	84950.360	2.0	89778.900	3.0
2070.4714	29.01	-.03	146575.300	2.0	151403.800	2.0
2070.4928	18.00	-2.98	119212.930	3.0	124041.380	2.0
2070.5992	7.00	-4.36	111326.798	2.5	116155.000	1.5
2070.6451	7.00	-2.40	111060.905	.5	115889.000	.5
2070.6451	7.00	-2.02	111060.905	.5	115889.000	1.5
2070.6558	28.01	-.96	130801.330	4.5	135629.400	3.5
2070.6743	14.00	-2.61	57328.789	1.0	62156.816	2.0
2070.7202	6.00	-.77	83747.390	2.0	88575.310	3.0
2070.8617	27.00	-4.37	41918.410	3.5	46746.000	2.5
2070.9088	6.00	-.82	83747.390	2.0	88574.870	3.0
2070.9174	6.00	-1.61	83747.390	2.0	88574.850	2.0
2070.9861	13.01	-2.13	143262.700	2.0	148090.000	2.0
2070.9861	13.01	-1.40	143262.700	2.0	148090.000	1.0
2070.9861	13.01	-3.68	143262.700	2.0	148090.000	3.0
2071.0127	14.00	-3.36	59191.072	2.0	64018.310	1.0
2071.0719	29.01	.02	146575.300	2.0	151402.400	3.0
2071.0805	28.01	.44	130801.330	4.5	135628.410	4.5
2071.2435	30.02	-.09	300123.400	5.0	304950.100	5.0
2071.2435	30.02	-1.87	300123.400	5.0	304950.100	4.0
2071.2508	10.00	-2.03	167648.640	2.0	172475.323	2.0
2071.2624	26.00	-2.49	43210.011	2.0	48036.667	2.0
2071.5032	7.00	-2.70	111060.905	.5	115887.000	.5
2071.5032	7.00	-3.37	111060.905	.5	115887.000	1.5
2071.5655	18.01	.33	200151.640	1.5	204977.590	2.5
2071.6053	18.00	-1.70	113643.260	1.0	118469.117	2.0
2071.6117	7.00	-2.46	111165.158	1.5	115991.000	2.5
2071.7079	17.00	-4.42	91660.580	2.5	96486.198	1.5
2071.7298	26.00	-1.95	44676.963	4.0	49502.530	5.0
2071.8445	28.01	-4.72	129782.070	3.5	134607.370	4.5
2071.8874	30.02	-1.30	300123.400	5.0	304948.600	5.0
2071.8874	30.02	.62	300123.400	5.0	304948.600	6.0
2071.8875	6.00	-1.93	83820.130	1.0	88645.330	1.0
2071.8875	6.00	-2.58	83820.130	1.0	88645.330	2.0
2071.9347	23.02	-3.80	155496.800	1.5	160321.890	2.5
2072.0411	7.00	-2.98	111165.158	1.5	115990.000	.5
2072.0411	7.00	-4.18	111165.158	1.5	115990.000	1.5
2072.0411	7.00	-3.59	111165.158	1.5	115990.000	2.5
2072.1365	28.01	.51	130815.910	3.5	135640.530	4.5
2072.2121	14.00	-1.75	57017.496	2.0	61841.940	2.0
2072.2739	29.01	-1.80	148631.200	3.0	153455.500	4.0
2072.2740	17.01	-4.66	149798.300	2.0	154622.600	3.0
2072.2907	7.00	-3.61	110710.739	2.5	115535.000	3.5
2072.3599	30.02	-.39	300126.000	4.0	304950.100	4.0
2072.3599	30.02	-.18	300126.000	4.0	304950.100	5.0
2072.3942	24.00	-4.30	33906.650	1.0	38730.670	2.0
2072.4247	26.00	-3.94	49242.872	3.0	54066.821	2.0
2072.4458	15.00	-1.16	75484.400	2.5	80308.300	2.5
2072.4758	18.02	-3.31	209127.040	1.0	213950.870	2.0
2072.5102	21.00	-3.84	29022.870	2.5	33846.620	3.5
2072.5326	26.00	-3.86	49242.872	3.0	54066.570	4.0
2072.5648	17.00	-.81	83364.927	.5	88188.550	1.5
2072.6172	26.00	-4.43	43137.472	3.0	47960.973	4.0
2072.8325	10.01	-3.55	303071.840	2.5	307894.840	2.5
2072.8841	14.02	.41	244943.310	2.0	249766.190	1.0
2072.9013	6.00	-2.93	84950.360	2.0	89773.200	3.0
2072.9589	26.00	-4.10	47197.000	2.0	52019.706	1.0
2072.9614	29.01	-1.98	141733.900	2.0	146556.600	3.0
2073.0044	30.02	-.40	300108.100	3.0	304930.700	3.0
2073.0044	30.02	.46	300126.000	4.0	304948.600	5.0
2073.0044	30.02	-2.79	300108.100	3.0	304930.700	2.0
2073.0431	6.00	-2.13	84950.360	2.0	89772.870	2.0
2073.0779	28.00	-1.81	44336.100	4.0	49158.529	5.0
2073.1295	17.00	-3.06	91660.580	2.5	96482.889	2.5
2073.2280	23.00	-4.45	37342.660	2.5	42164.740	3.5
2073.3441	23.02	-2.78	156344.000	1.5	161165.810	2.5
2073.3656	18.00	-1.29	115366.900	1.0	120188.660	2.0
2073.4172	28.01	.96	131686.560	4.5	136508.200	5.5
2073.5032	18.00	-1.45	115366.900	1.0	120188.340	1.0
2073.5393	7.00	-2.60	111285.644	1.5	116107.000	.5
2073.5393	7.00	-3.89	111285.644	1.5	116107.000	1.5
2073.5634	17.01	-4.97	149798.300	2.0	154619.600	2.0
2073.5763	28.01	-.45	130801.330	4.5	135622.600	3.5
2073.8085	10.01	-2.32	276511.820	.5	281332.550	.5
2073.8129	28.01	-.04	129474.270	3.5	134294.990	2.5
2074.0366	13.01	-2.50	143269.800	3.0	148090.000	3.0
2074.0366	13.01	-1.60	143269.800	3.0	148090.000	2.0
2074.0757	26.00	-3.06	47017.170	3.0	51837.279	3.0
2074.0882	22.00	-2.68	42018.010	5.0	46838.090	4.0
2074.1880	7.00	-4.94	110715.152	3.5	115535.000	3.5
2074.2475	28.01	-.97	113623.100	.5	118442.810	1.5
2074.2948	15.00	-3.76	75353.400	1.5	80173.000	.5
2074.3503	18.00	-2.02	121011.979	1.0	125831.450	0.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
2074.4239	30.02	-1.25	300123.400	5.0	304942.700	4.0
2074.5531	28.01	-4.86	119833.000	5.5	124652.000	4.5
2074.5573	14.02	.54	229623.190	1.0	234442.180	2.0
2074.6056	18.00	-4.40	121270.682	2.0	126089.560	3.0
2074.6258	14.00	-1.99	58311.659	0.0	63130.490	1.0
2074.6348	18.01	-4.77	214184.790	3.5	219003.600	2.5
2074.6607	24.00	-3.94	31393.400	5.0	36212.150	4.0
2074.6775	26.00	-4.91	52039.939	1.0	56858.650	2.0
2074.6822	29.01	-1.87	146556.600	3.0	151375.300	2.0
2074.7727	18.01	-1.89	194861.270	2.5	199679.760	2.5
2074.9104	6.00	-1.40	83820.130	1.0	88638.300	2.0
2075.2895	29.01	-1.96	117928.480	1.0	122745.770	2.0
2075.3756	25.00	-2.06	46901.130	2.5	51718.220	1.5
2075.3816	14.00	-2.05	58801.524	1.0	63618.600	0.0
2075.5437	30.02	-.78	300126.000	4.0	304942.700	4.0
2075.5437	30.02	-1.77	300126.000	4.0	304942.700	3.0
2075.6049	26.00	-3.22	46888.494	2.0	51705.052	2.0
2075.6940	18.00	-3.07	120250.150	3.0	125066.501	2.0
2075.7419	24.00	-.35	48824.500	4.0	53640.740	3.0
2075.7893	28.01	-4.71	95573.390	3.5	100389.520	2.5
2075.8669	29.01	-2.35	128778.100	4.0	133594.050	3.0
2075.8841	23.00	-4.91	37322.090	3.5	42138.000	2.5
2076.1644	28.01	-.05	129479.730	1.5	134294.990	2.5
2076.2334	15.00	-2.17	75484.400	2.5	80299.500	1.5
2076.2752	14.00	-1.40	56780.427	1.0	61595.430	1.0
2076.2894	29.01	-4.43	130945.000	1.0	135759.970	2.0
2076.3196	18.00	-1.52	119566.110	3.0	124381.010	2.0
2076.3972	28.01	-1.27	130815.910	3.5	135630.630	2.5
2076.4705	29.01	-4.98	136919.350	3.0	141733.900	2.0
2076.5309	28.01	.84	129424.030	5.5	134238.440	6.5
2076.6862	6.00	-4.26	83761.260	3.0	88575.310	3.0
2076.6862	6.00	-.42	83761.260	3.0	88575.310	4.0
2076.8631	10.01	-.71	302961.070	1.5	307774.710	1.5
2076.8760	6.00	-1.43	83761.260	3.0	88574.870	3.0
2076.8846	6.00	-2.90	83761.260	3.0	88574.850	2.0
2076.9278	28.01	-.46	130815.910	3.5	135629.400	3.5
2077.0266	7.00	-4.08	110710.739	2.5	115524.000	3.5
2077.0625	14.00	-2.27	59131.912	4.0	63945.090	3.0
2077.2946	22.00	-4.26	41255.400	4.0	46068.040	4.0
2077.3205	23.00	-4.14	34428.760	1.5	39241.340	2.5
2077.3551	28.01	.43	130815.910	3.5	135628.410	4.5
2077.3551	29.01	-.79	146559.800	4.0	151372.300	5.0
2077.4112	16.00	-.94	74972.250	4.0	79784.620	3.0
2077.4517	10.00	-3.31	167449.464	1.0	172261.740	1.0
2077.4672	18.01	-4.35	200138.850	3.5	204951.090	3.5
2077.5234	28.01	.63	129474.270	3.5	134286.380	4.5
2077.8213	16.00	-1.53	74973.200	3.0	79784.620	3.0
2077.8689	21.00	-4.59	33846.620	3.5	38657.930	2.5
2078.0000	6.03	-.65	320080.000	0.0	324892.320	0.0
2078.1021	14.02	.95	249774.980	4.0	254585.750	5.0
2078.1280	18.00	-4.59	119847.810	1.0	124658.520	2.0
2078.1617	7.00	-3.45	111501.368	1.5	116312.000	.5
2078.1617	7.00	-2.75	111501.368	1.5	116312.000	1.5
2078.1617	7.00	-2.76	111501.368	1.5	116312.000	2.5
2078.2014	23.02	-2.96	155569.100	2.5	160379.640	2.5
2078.2360	6.00	-3.28	84103.100	2.0	88913.560	2.0
2078.2965	14.02	.72	249774.480	2.0	254584.800	3.0
2078.3094	16.00	-2.37	74974.330	2.0	79784.620	3.0
2078.3483	21.00	-3.99	29096.200	3.5	33906.400	4.5
2078.3916	14.02	-.34	249774.700	3.0	254584.800	3.0
2078.3916	14.02	.48	249774.700	3.0	254584.800	4.0
2078.4607	25.00	-4.43	51546.270	4.5	56356.210	3.5
2078.4650	25.01	-.60	82151.070	2.0	86961.000	1.0
2078.4650	10.01	-1.94	303928.100	.5	308738.030	1.5
2078.4780	14.02	.59	249774.700	3.0	254584.600	4.0
2078.4996	26.01	-4.99	93484.750	4.5	98294.600	5.5
2078.5126	14.02	-2.14	249774.980	4.0	254584.800	3.0
2078.5126	14.02	-.69	249774.980	4.0	254584.800	4.0
2078.5989	14.02	-.59	249774.980	4.0	254584.600	4.0
2078.6940	13.01	-1.07	143280.600	4.0	148090.000	3.0
2078.9326	7.00	-3.96	110715.152	3.5	115524.000	3.5
2079.1264	15.00	-1.82	76425.200	2.5	81233.600	3.5
2079.1393	22.00	-2.75	41917.050	4.0	46725.420	3.0
2079.2172	27.00	-4.61	50712.450	2.5	55520.640	3.5
2079.2345	29.01	-.31	133594.050	3.0	138402.200	3.0
2079.2941	14.00	-1.50	57541.918	1.0	62349.930	2.0
2079.3676	7.00	-2.53	111165.158	1.5	115973.000	1.5
2079.4810	25.00	-3.34	57487.080	2.5	62294.660	3.5
2079.6138	18.00	-4.66	121257.227	1.0	126064.500	2.0
2079.6238	6.00	-2.35	83838.080	2.0	88645.330	1.0
2079.6238	6.00	-2.02	83838.080	2.0	88645.330	2.0
2079.6402	20.00	-1.28	42743.002	1.0	47550.214	2.0
2079.6410	27.00	-4.51	43911.360	1.5	48718.570	2.5
2079.8098	26.00	-1.09	49804.900	3.0	54611.720	2.0
2079.8660	28.01	.28	130815.910	3.5	135622.600	3.5
2079.8704	9.02	.55	453152.390	2.5	457959.070	3.5
2079.8950	26.00	-3.89	32133.977	2.0	36940.600	2.0
2079.9050	15.00	-3.87	65585.000	2.5	70391.600	2.5
2080.1412	14.00	-1.15	57017.496	2.0	61823.550	2.0
2080.2382	28.01	-4.90	116512.060	3.5	121317.890	3.5
2080.3573	20.00	-1.11	42744.716	2.0	47550.271	3.0
2080.3820	20.00	-2.01	42744.716	2.0	47550.214	2.0
2080.4157	14.00	-1.55	49399.670	1.0	54205.090	2.0
2080.4763	25.01	-.49	82155.720	1.0	86961.000	1.0
2080.5066	14.02	-.16	229623.190	1.0	234428.400	1.0
2080.5075	17.00	-4.14	91680.990	1.5	96486.198	1.5
2080.5802	28.01	-4.48	116893.980	2.5	121699.020	1.5
2080.6465	26.00	-1.36	48928.423	2.0	53733.310	3.0
2080.6538	28.01	-.96	130801.330	4.5	135606.200	5.5
2080.6556	10.00	-3.56	167449.464	1.0	172254.330	0.0
2080.7275	30.02	-1.93	300126.000	4.0	304930.700	3.0
2080.8401	28.01	-3.70	130174.030	1.5	134978.470	2.5
2080.9440	30.02	-2.06	300123.400	5.0	304927.600	6.0
2080.9743	25.00	-3.65	58427.300	5.5	63231.430	4.5
2081.0255	10.00	-4.98	167026.988	1.0	171831.000	0.0
2081.0255	10.00	-4.98	167026.988	1.0	171831.000	0.0
2081.0307	17.01	-2.36	146330.000	1.0	151134.000	1.0
2081.1022	18.00	-1.66	112138.980	2.0	116942.815	3.0
2081.1389	23.00	-2.13	18805.050	.5	23608.800	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2081.1900	7.00	-3.23	111501.368	1.5	116305.000	.5
2081.1900	7.00	-3.71	111501.368	1.5	116305.000	1.5
2081.3387	26.00	-4.34	43163.282	4.0	47966.571	3.0
2081.3521	17.00	-.43	96731.172	3.5	101534.430	4.5
2081.3599	18.00	-3.98	119847.810	1.0	124651.050	1.0
2081.4709	20.00	-.95	42747.387	3.0	47550.371	4.0
2081.4726	27.00	-3.67	43398.620	3.5	48201.600	3.5
2081.5141	20.00	-2.01	42747.387	3.0	47550.271	3.0
2081.5333	25.01	-.84	82158.160	0.0	86961.000	1.0
2081.5389	20.00	-3.55	42747.387	3.0	47550.214	2.0
2081.5419	21.00	-4.91	33798.680	2.5	38601.500	1.5
2081.8237	28.01	-.52	130815.910	3.5	135618.080	2.5
2081.9411	17.00	-3.46	91680.990	1.5	96482.889	2.5
2081.9676	17.00	-2.45	96731.172	3.5	101533.010	2.5
2082.0257	14.00	-1.09	56503.346	2.0	61305.050	3.0
2082.0578	28.01	-3.95	115108.090	2.5	119909.720	1.5
2082.3583	14.00	-1.44	56503.346	2.0	61304.283	2.0
2082.6694	6.00	-1.47	83838.080	2.0	88638.300	2.0
2082.6694	6.00	-1.63	83838.080	2.0	88638.300	3.0
2082.6780	17.01	-2.67	146333.800	2.0	151134.000	1.0
2082.7496	14.00	-.26	56503.346	2.0	61303.381	3.0
2082.7648	29.01	-.22	146575.300	2.0	151375.300	2.0
2082.7909	27.00	-3.93	50105.050	1.5	54904.990	2.5
2082.8000	6.03	-1.61	320080.000	0.0	324881.229	0.0
2082.8429	26.02	-4.17	200395.330	5.0	205195.150	5.0
2082.8733	24.00	-4.36	50018.800	1.0	54818.550	2.0
2082.9775	28.01	-1.37	113172.960	4.5	117972.470	3.5
2083.0643	21.00	-4.81	33056.190	3.5	37855.500	2.5
2083.1771	18.02	-3.25	209151.820	2.0	213950.870	2.0
2083.2206	18.01	-4.10	200138.850	3.5	204937.800	4.5
2083.3378	27.00	-4.18	49484.050	3.5	54282.730	2.5
2083.3425	12.00	-1.57	56308.381	2.0	61107.050	2.0
2083.3425	12.00	-1.70	56308.381	2.0	61107.050	3.0
2083.3425	12.00	-.49	56308.381	2.0	61107.050	3.0
2083.3681	26.00	-4.51	48361.920	4.0	53160.530	3.0
2083.6895	9.02	-3.45	460141.630	2.5	464939.500	2.5
2083.7112	28.01	-.75	131750.730	3.5	136548.550	2.5
2083.7633	15.01	-.19	127600.000	1.0	132397.700	2.0
2083.8632	6.00	-3.34	84116.090	1.0	88913.560	2.0
2083.8980	18.01	.71	201351.550	2.5	206148.940	3.5
2083.9284	28.01	-.62	129474.270	3.5	134271.590	4.5
2083.9797	7.00	-2.39	111326.798	2.5	116124.000	1.5
2083.9797	7.00	-2.22	111326.798	2.5	116124.000	2.5
2084.0787	26.00	-.79	48531.896	3.0	53328.870	4.0
2084.1386	26.00	-3.45	45726.104	5.0	50522.940	6.0
2084.1716	18.01	-1.23	194883.000	3.5	199679.760	2.5
2084.2064	27.00	-2.90	43921.890	2.5	48718.570	2.5
2084.2846	6.00	-2.48	83848.830	3.0	88645.330	2.0
2084.3194	28.00	-1.43	44475.158	2.0	49271.578	3.0
2084.3281	28.01	.06	131750.730	3.5	136547.130	3.5
2084.3555	17.00	-2.34	95706.534	1.5	100502.871	1.5
2084.3716	15.01	-.54	127368.000	2.0	132164.300	2.0
2084.4063	21.00	-4.17	37125.720	.5	41921.940	1.5
2084.4454	15.00	.39	68088.270	1.5	72884.400	2.5
2084.5093	18.00	-3.99	121257.227	1.0	126053.210	2.0
2084.5454	6.00	-1.10	83838.080	2.0	88633.980	3.0
2084.5932	24.00	-4.84	33934.880	3.0	38730.670	2.0
2084.6019	28.01	.78	131750.730	3.5	136546.500	4.5
2084.6193	18.00	-3.47	119847.810	1.0	124643.540	1.0
2084.7406	26.00	-4.04	47271.999	1.0	52067.450	2.0
2084.7671	29.01	-2.12	116080.460	3.0	120875.850	2.0
2084.9279	24.00	-3.69	33935.650	2.0	38730.670	2.0
2084.9366	15.00	-4.00	70689.400	3.5	75484.400	2.5
2084.9975	28.01	-3.09	113177.610	3.5	117972.470	3.5
2085.2280	26.00	-4.27	47420.000	2.0	52214.330	1.0
2085.3302	7.00	-2.73	111060.905	.5	115855.000	.5
2085.3302	7.00	-3.03	111060.905	.5	115855.000	1.5
2085.3368	28.01	-3.48	130184.390	2.5	134978.470	2.5
2085.4508	18.00	-3.44	121270.682	2.0	126064.500	2.0
2085.7153	26.00	-4.40	48361.920	4.0	53155.130	4.0
2085.7509	17.00	-4.81	96731.172	3.5	101524.300	2.5
2085.8023	28.01	-4.47	115209.850	3.5	120002.860	3.5
2086.0417	25.01	-.18	82144.340	3.0	86936.800	2.0
2086.2675	10.00	-4.96	167807.759	1.0	172599.700	0.0
2086.2675	10.00	-4.96	167807.759	1.0	172599.700	0.0
2086.2941	14.02	-.16	229623.190	1.0	234415.070	0.0
2086.4378	28.01	-.06	131750.730	3.5	136542.280	3.5
2086.4435	10.00	-4.63	167011.563	2.0	171803.100	2.0
2086.4435	10.00	-4.63	167011.563	2.0	171803.100	2.0
2086.6112	7.00	-2.58	111198.848	.5	115990.000	.5
2086.6112	7.00	-2.79	111198.848	.5	115990.000	1.5
2086.7065	12.00	-1.36	54250.086	1.0	59041.019	2.0
2086.8298	18.01	-3.42	196089.870	2.5	200880.520	3.5
2086.8429	18.00	-2.56	119566.110	3.0	124356.730	2.0
2086.8568	17.00	-1.48	96731.172	3.5	101521.760	3.5
2086.8647	10.00	-4.27	167001.130	3.0	171791.700	2.0
2086.8647	10.00	-4.27	167001.130	3.0	171791.700	2.0
2086.8777	24.00	-4.72	50184.100	2.0	54974.640	2.0
2086.8777	28.01	-4.88	70358.940	4.5	75149.480	4.5
2086.9431	23.00	-4.43	20202.490	2.5	24992.880	3.5
2087.0415	17.00	-3.75	96731.172	3.5	101521.336	4.5
2087.1130	15.04	.44	455573.000	.5	460363.000	1.5
2087.1130	15.04	.13	455573.000	.5	460363.000	.5
2087.1173	22.00	-4.27	42184.660	4.0	46974.650	5.0
2087.2350	28.01	-2.86	115120.000	2.5	119909.720	1.5
2087.3440	6.00	-2.52	83848.830	3.0	88638.300	2.0
2087.3440	6.00	-1.22	83848.830	3.0	88638.300	3.0
2087.4080	26.00	-4.59	45061.287	3.0	49850.610	3.0
2087.5488	15.00	-1.51	75833.400	2.5	80622.400	2.5
2087.8017	27.00	-3.13	41918.410	3.5	46706.830	3.5
2087.8104	13.01	-.10	144780.200	2.0	149568.600	3.0
2087.8570	12.00	-1.84	54252.726	2.0	59041.019	2.0
2087.8845	6.00	-1.91	84984.970	3.0	89773.200	3.0
2087.9892	29.01	-3.48	136754.110	2.0	141542.100	2.0
2088.0066	28.01	-3.92	134053.050	2.5	138841.000	3.5
2088.0284	6.00	-2.81	84984.970	3.0	89772.870	2.0
2088.0720	28.01	-3.02	129474.270	3.5	134262.070	3.5
2088.1243	18.01	-1.05	200406.360	.5	205194.040	1.5
2088.2160	27.00	-2.73	45924.980	3.5	50712.450	2.5
2088.2443	28.00	-3.75	50789.500	4.0	55576.905	3.0
2088.4280	7.00	-2.49	111204.016	2.5	115991.000	2.5
2088.4297	22.00	-4.25	41457.620	3.0	46244.600	2.0
2088.4359	10.00	-4.08	167000.034	4.0	171787.000	3.0
2088.4359	10.00	-4.08	167000.034	4.0	171787.000	3.0
2088.4711	17.00	-3.38	94482.236	2.5	99269.121	2.5
2088.6042	23.00	-2.12	17054.870	2.5	21841.450	2.5
2088.7439	26.01	-4.42	45289.840	1.5	50076.100	1.5
2088.8643	7.00	-2.80	111204.016	2.5	115990.000	1.5
2088.8643	7.00	-2.09	111204.016	2.5	115990.000	2.5
2088.9752	25.01	-.38	82151.070	2.0	86936.800	2.0
2088.9878	14.00	-3.69	58311.659	0.0	63097.360	1.0
2088.9909	17.00	.10	94732.300	3.5	99517.994	4.5
2089.0145	24.00	-4.36	30787.300	1.0	35572.940	2.0
2089.0346	14.00	-2.07	49399.670	1.0	54185.264	1.0
2089.0481	22.00	-4.47	37172.947	1.0	41958.510	2.0
2089.1323	22.00	-4.21	42052.720	3.0	46838.090	4.0
2089.1891	6.00	-.60	83848.830	3.0	88634.070	4.0
2089.2283	6.00	-2.05	83848.830	3.0	88633.980	3.0
2089.2589	10.01	-.62	303237.910	1.5	308022.990	.5
2089.3375	23.00	-1.68	37075.640	4.5	41860.540	4.5
2089.3550	27.00	-4.99	46375.170	1.5	51160.030	2.5
2090.0146	10.01	-3.81	313419.040	1.5	318202.390	2.5
2090.0233	10.01	-2.61	313419.040	1.5	318202.370	1.5
2090.1063	28.01	.25	129503.240	4.5	134286.380	4.5
2090.1151	28.00	-3.25	46522.965	2.0	51306.085	3.0
2090.1981	18.00	-2.19	119566.110	3.0	124349.040	3.0
2090.3738	18.00	-4.97	121270.682	2.0	126053.210	2.0
2090.4735	10.01	-2.39	313420.090	2.5	318202.390	2.5
2090.4822	10.01	-3.55	313420.090	2.5	318202.370	1.5
2090.5172	29.01	-2.56	134359.900	1.0	139142.100	2.0
2090.7008	28.01	-1.97	129474.270	3.5	134256.050	2.5
2090.8140	18.00	-3.45	117151.387	1.0	121932.908	1.0
2090.8145	23.00	-3.13	17181.980	4.5	21963.500	3.5
2090.8626	14.00	-1.65	57450.580	3.0	62231.990	2.0
2090.9369	28.01	-4.37	130197.230	1.5	134978.470	2.5
2091.0004	7.00	-3.12	111060.905	.5	115842.000	.5
2091.0004	7.00	-2.63	111060.905	.5	115842.000	1.5
2091.0069	25.01	-.97	82155.720	1.0	86936.800	2.0
2091.1469	28.01	-1.67	116261.810	.5	121042.570	1.5
2091.2168	30.02	-2.16	302908.500	4.0	307689.100	5.0
2091.2606	15.00	-.45	75813.600	.5	80594.100	1.5
2091.3875	18.01	-.94	183985.940	1.5	188766.150	2.5
2091.3910	7.00	-3.37	111326.798	2.5	116107.000	1.5
2091.4312	9.02	-2.47	460141.630	2.5	464921.740	3.5
2091.4964	18.00	-3.33	121011.979	1.0	125791.940	2.0
2091.7152	14.00	.69	54257.582	3.0	59037.043	4.0
2091.7332	19.00	-1.88	27450.690	.5	32230.110	1.5
2091.7857	23.00	-2.59	34619.520	2.5	39398.820	3.5
2092.0790	28.01	-2.92	132120.700	.5	136899.330	1.5
2092.1008	28.01	.51	129474.270	3.5	134252.850	3.5
2092.1709	28.01	.71	129503.240	4.5	134281.660	5.5
2092.1822	20.00	-2.71	37748.197	1.0	42526.591	2.0
2092.1928	28.01	-4.84	116312.340	1.5	121090.710	.5
2092.4332	26.00	-4.68	47271.999	1.0	52049.820	2.0
2092.4599	18.01	-2.43	200151.640	1.5	204929.400	.5
2092.4735	7.00	-1.59	111213.271	1.5	115991.000	2.5
2092.4818	6.00	-1.79	85188.950	1.0	89966.660	2.0
2092.5724	10.00	-4.28	167795.897	3.0	172573.400	2.0
2092.5724	10.00	-4.28	167795.897	3.0	172573.400	2.0
2092.6149	14.00	-.86	54257.582	3.0	59034.988	3.0
2092.7008	18.01	-.46	196103.310	4.5	200880.520	3.5
2092.8103	23.01	-4.86	67905.100	3.0	72682.060	2.0
2092.8279	18.01	-.29	203918.150	1.5	208695.070	1.5
2092.8935	14.01	-1.65	122655.510	3.5	127432.280	3.5
2092.8935	14.01	-.11	122655.510	3.5	127432.280	4.5
2092.8984	10.00	-4.82	166975.341	1.0	171752.100	1.0
2092.8984	10.00	-4.82	166975.341	1.0	171752.100	1.0
2092.9023	19.00	-2.18	27450.690	.5	32227.440	.5
2092.9067	6.00	-4.38	83798.570	4.0	88575.310	3.0
2092.9067	6.00	-3.43	83798.570	4.0	88575.310	4.0
2092.9115	7.00	-2.89	111213.271	1.5	115990.000	.5
2092.9115	7.00	-2.36	111213.271	1.5	115990.000	1.5
2092.9115	7.00	-3.19	111213.271	1.5	115990.000	2.5
2092.9461	14.01	-.22	122655.630	2.5	127432.280	3.5
2092.9549	28.01	-2.97	101246.160	.5	106022.790	.5
2092.9733	10.00	-4.48	165912.782	1.0	170689.370	0.0
2093.0908	28.01	-1.57	129479.730	1.5	134256.050	2.5
2093.0995	6.00	-4.90	83798.570	4.0	88574.870	3.0
2093.1258	18.01	-1.91	158730.210	2.5	163506.450	3.5
2093.2529	24.00	-3.80	50210.870	4.0	54986.820	3.0
2093.3143	21.00	-2.33	29022.870	2.5	33798.680	2.5
2093.3712	14.02	.44	225526.330	3.0	230302.010	4.0
2093.5247	14.02	-.05	225526.330	3.0	230301.660	4.0
2093.6123	18.01	.34	201345.220	1.5	206120.350	2.5
2093.6869	28.01	.25	129479.730	1.5	134254.690	1.5
2093.6939	13.00	-4.89	41319.372	2.5	46094.316	2.5
2093.6974	13.00	-3.59	41319.380	3.5	46094.316	2.5
2093.7176	14.02	-1.98	225526.330	3.0	230301.220	3.0
2093.7439	17.00	-1.38	91538.500	1.5	96313.330	1.5
2093.7904	20.00	-1.93	37751.867	2.0	42526.591	2.0
2093.8009	27.00	-4.35	49484.050	3.5	54258.750	2.5
2093.8272	28.01	-2.61	116786.420	.5	121561.060	.5
2094.0412	7.00	-2.42	111198.848	.5	115973.000	1.5
2094.0851	13.00	-3.74	41319.372	2.5	46093.424	1.5
2094.1079	18.01	-.48	200406.360	.5	205180.360	.5
2094.2439	28.01	-.77	131750.730	3.5	136524.420	4.5
2094.5906	10.01	-2.51	313419.040	1.5	318191.940	2.5
2094.7222	15.01	-.69	127600.000	1.0	132372.600	1.0
2094.7635	22.00	-4.16	37538.804	2.0	42311.310	3.0
2094.7749	29.01	-.46	118532.150	2.0	123304.630	1.0
2094.8710	7.00	-4.61	110710.739	2.5	115483.000	2.5
2095.0471	10.01	-2.28	313420.090	2.5	318191.950	3.5
2095.0515	10.01	-3.72	313420.090	2.5	318191.940	2.5
2095.0642	18.00	-2.31	121011.979	1.0	125783.800	1.0
2095.1349	23.00	-4.98	37227.440	2.5	41999.100	1.5
2095.2578	28.01	.28	129503.240	4.5	134274.620	5.5
2095.2877	10.00	-4.97	167026.988	1.0	171798.300	1.0
2095.2877	10.00	-4.97	167026.988	1.0	171798.300	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2095.4027	28.00	-2.55	44314.980	4.0	49086.030	4.0
2095.4905	6.00	-2.34	84103.100	2.0	88873.950	2.0
2095.5125	15.00	-1.87	72884.400	2.5	77655.200	3.5
2095.6395	20.00	-2.00	37748.197	1.0	42518.708	1.0
2095.6619	15.00	.12	67971.140	.5	72741.600	1.5
2095.7546	17.00	-3.04	95400.731	2.5	100170.980	1.5
2095.8684	28.01	-1.31	129479.730	1.5	134249.720	1.5
2095.8772	28.00	-1.88	44262.619	2.0	49032.589	2.0
2096.0486	28.01	-3.67	130208.890	3.5	134978.470	2.5
2096.0490	26.00	-4.63	45608.341	6.0	50377.920	5.0
2096.0824	14.00	-1.81	57372.297	2.0	62141.800	1.0
2096.1277	25.00	-2.18	57305.620	3.5	62075.020	2.5
2096.1887	7.00	-3.47	110710.739	2.5	115480.000	1.5
2096.2112	23.00	-2.08	36989.200	2.5	41758.410	3.5
2096.2327	26.00	-4.58	49297.660	1.0	54066.821	2.0
2096.2375	25.00	-4.03	57621.900	1.5	62391.050	.5
2096.2410	20.00	-.79	37757.449	3.0	42526.591	2.0
2096.2947	10.01	-1.49	303237.910	1.5	308006.930	.5
2096.2969	10.00	-3.94	165828.175	2.0	170597.190	2.0
2096.3105	7.00	-2.73	111204.016	2.5	115973.000	1.5
2096.3474	29.01	-2.10	136773.200	1.0	141542.100	2.0
2096.3914	18.01	-.91	201351.550	2.5	206120.350	2.5
2096.5892	28.01	.11	129503.240	4.5	134271.590	4.5
2096.6112	25.00	-2.11	57621.900	1.5	62390.200	1.5
2096.6772	23.00	-3.44	36983.630	1.5	41751.780	.5
2096.6772	23.00	-4.90	36983.630	1.5	41751.780	1.5
2096.7036	27.00	-3.40	47393.930	2.5	52162.020	3.5
2096.7695	26.00	-4.33	47271.999	1.0	52039.939	1.0
2096.8100	7.00	-3.31	110715.152	3.5	115483.000	2.5
2096.8927	6.00	-3.36	85203.640	2.0	89971.300	3.0
2096.9441	28.00	-2.20	44565.100	3.0	49332.643	4.0
2097.0070	30.02	-3.22	257678.700	2.0	262446.100	3.0
2097.1962	26.02	-4.68	200325.560	4.0	205092.530	4.0
2097.2226	22.00	-4.12	41958.510	2.0	46725.420	3.0
2097.2270	29.01	-3.26	133826.200	2.0	138593.100	1.0
2097.2530	20.00	-.59	37751.867	2.0	42518.708	1.0
2097.3378	20.00	-1.40	37748.197	1.0	42514.845	0.0
2097.3546	28.01	-4.94	104503.220	2.5	109269.830	1.5
2097.4118	6.00	-4.10	64089.850	1.0	68856.330	1.0
2097.4536	22.00	-2.91	29768.655	2.0	34535.040	2.0
2097.6863	10.00	-4.52	167796.944	2.0	172562.800	1.0
2097.6863	10.00	-4.52	167796.944	2.0	172562.800	1.0
2097.8765	26.00	-4.15	49108.876	4.0	53874.300	5.0
2097.8959	6.00	-3.81	64090.950	2.0	68856.330	1.0
2097.9219	18.00	-2.63	121011.979	1.0	125777.300	1.0
2097.9488	10.01	-4.28	313431.490	4.5	318196.750	5.5
2097.9752	15.01	-.50	127368.000	2.0	132133.200	3.0
2098.0984	24.00	-1.95	37883.340	2.0	42648.260	3.0
2098.1601	28.01	-.71	101258.010	1.5	106022.790	.5
2098.3054	14.02	.14	229623.190	1.0	234387.640	1.0
2098.4005	18.00	-2.95	113643.260	1.0	118407.494	1.0
2098.4287	10.01	-4.76	313420.090	2.5	318184.260	3.5
2098.6045	18.00	-1.17	107054.319	0.0	111818.090	1.0
2098.6182	10.01	.19	303974.290	1.5	308738.030	1.5
2098.7944	27.00	-4.33	41982.660	1.5	46746.000	2.5
2098.8737	6.00	-1.52	85203.640	2.0	89966.800	3.0
2098.9354	6.00	-2.30	85203.640	2.0	89966.660	2.0
2099.0412	14.01	-.07	113760.410	3.5	118523.190	2.5
2099.0544	6.00	-2.18	83497.620	2.0	88260.370	2.0
2099.0566	28.00	-2.76	44565.100	3.0	49327.845	2.0
2099.0765	8.01	-2.05	251220.900	3.5	255983.600	4.5
2099.1090	26.00	-4.49	33412.706	3.0	38175.332	3.0
2099.1161	14.01	-1.37	113760.580	2.5	118523.190	2.5
2099.1293	23.00	-3.60	36989.200	2.5	41751.780	1.5
2099.1469	14.01	-.23	113760.580	2.5	118523.120	1.5
2099.3043	26.00	-4.26	44166.240	3.0	48928.423	2.0
2099.3100	14.00	-1.37	59032.140	2.0	63794.310	2.0
2099.3189	6.00	-3.60	84032.150	1.0	88794.300	2.0
2099.3585	10.01	-.87	302307.750	2.5	307069.810	1.5
2099.6054	25.01	.11	82136.200	4.0	86897.700	3.0
2099.6054	18.01	-1.70	196119.020	3.5	200880.520	3.5
2099.6583	14.00	-1.81	59032.140	2.0	63793.520	1.0
2099.7245	18.01	-4.53	200234.860	2.5	204996.090	3.5
2099.8215	23.00	-4.24	33481.450	3.5	38242.460	3.5
2099.8392	23.01	-4.72	68147.200	4.0	72908.170	3.0
2099.8524	24.00	-3.97	50057.610	2.0	54818.550	2.0
2099.9582	15.00	-2.10	75833.400	2.5	80594.100	1.5
2100.0641	10.01	-3.63	313431.490	4.5	318191.950	3.5
2100.2053	6.00	-2.02	84950.360	2.0	89710.500	3.0
2100.3866	7.00	-1.99	111213.271	1.5	115973.000	1.5
2100.4039	24.00	-3.30	30858.820	2.0	35618.510	1.0
2100.4127	10.01	-4.97	313432.280	3.5	318191.950	3.5
2100.4171	10.01	-3.75	313432.280	3.5	318191.940	2.5
2100.4259	27.00	-2.94	40345.950	2.5	45105.590	3.5
2100.4617	22.00	-3.63	37852.021	1.0	42611.580	1.0
2100.6201	17.01	-1.98	146333.800	2.0	151093.000	3.0
2100.7834	28.01	-.66	129503.240	4.5	134262.070	3.5
2100.8408	28.01	-3.96	95573.390	3.5	100332.090	4.5
2100.8409	6.00	-2.98	84032.150	1.0	88790.850	1.0
2100.9693	22.00	-2.59	31373.801	3.0	36132.210	4.0
2101.0483	18.01	-.40	201345.220	1.5	206103.450	1.5
2101.1190	28.01	-4.35	94396.740	5.5	99154.810	4.5
2101.1481	17.00	-1.81	90948.530	1.5	95706.534	1.5
2101.1852	25.00	-4.60	45130.160	4.5	49888.080	3.5
2101.2118	6.00	-3.22	84116.090	1.0	88873.950	2.0
2101.2824	14.02	-.51	249937.290	5.0	254694.990	5.0
2101.2824	14.02	-.62	249937.290	5.0	254694.990	5.0
2101.2824	14.02	-2.42	249937.290	6.0	254694.990	5.0
2101.2824	14.02	1.29	249937.290	5.0	254694.990	6.0
2101.2824	14.02	-2.17	249937.290	5.0	254694.990	6.0
2101.2824	14.02	-3.38	249937.290	5.0	254694.990	6.0
2101.2824	14.02	1.29	249937.290	5.0	254694.990	6.0
2101.2824	14.02	-.52	249937.290	6.0	254694.990	6.0
2101.2824	14.02	-.61	249937.290	6.0	254694.990	6.0
2101.2824	14.02	1.36	249937.290	6.0	254694.990	7.0
2101.2824	14.02	1.21	249937.290	4.0	254694.990	5.0
2101.3125	7.00	-3.06	111501.368	1.5	116259.000	.5
2101.3125	7.00	-2.32	111501.368	1.5	116259.000	1.5
2101.3125	7.00	-4.02	111501.368	1.5	116259.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2101.3165	14.00	-1.93	56780.427	1.0	61538.050	0.0
2101.3663	28.01	-2.36	116145.690	3.5	120903.200	3.5
2101.4591	28.01	-4.30	129782.070	3.5	134539.370	2.5
2101.6513	10.00	-3.57	165828.175	2.0	170585.040	1.0
2101.9849	18.01	1.02	214184.790	3.5	218940.900	4.5
2102.1661	15.00	-.90	75705.400	3.5	80461.100	3.5
2102.3164	6.00	-.14	73975.910	0.0	78731.270	1.0
2102.3960	28.01	-2.96	112906.930	1.5	117662.110	1.5
2102.4004	18.01	-2.70	203918.150	1.5	208673.320	2.5
2102.5994	6.00	-.90	83820.130	1.0	88574.850	2.0
2102.6790	23.00	-2.82	34486.800	2.5	39241.340	2.5
2102.7272	10.00	-4.35	167048.669	3.0	171803.100	2.0
2102.7272	10.00	-4.35	167048.669	3.0	171803.100	2.0
2102.7365	28.01	-3.77	131834.940	2.5	136589.350	3.5
2102.9098	14.00	-4.31	59191.072	2.0	63945.090	3.0
2103.1802	26.00	-2.96	47017.170	3.0	51770.577	3.0
2103.2010	25.01	-.48	82144.340	3.0	86897.700	3.0
2103.2275	27.00	-4.74	48217.320	3.5	52970.620	2.5
2103.4488	29.01	-1.48	116326.160	3.0	121078.960	3.0
2103.4532	23.02	-3.79	155569.100	2.5	160321.890	2.5
2103.4576	10.01	-3.85	313431.490	4.5	318184.270	4.5
2103.4621	10.01	-4.22	313431.490	4.5	318184.260	3.5
2103.5373	28.01	-3.47	130225.870	3.5	134978.470	2.5
2103.5505	18.01	-4.59	204585.640	2.5	209338.210	3.5
2103.5784	18.00	-.86	113716.610	3.0	118469.117	2.0
2103.6745	28.01	.14	131796.260	2.5	136548.550	2.5
2103.6966	10.01	-2.45	313431.490	4.5	318183.730	5.5
2103.7143	10.01	-2.71	313431.490	4.5	318183.690	4.5
2103.8073	10.01	-2.48	313432.280	3.5	318184.270	4.5
2103.8118	10.01	-2.83	313432.280	3.5	318184.260	3.5
2103.8472	18.01	-1.53	201351.550	2.5	206103.450	1.5
2104.0065	18.01	-.62	214189.360	4.5	218940.900	4.5
2104.0065	18.01	1.11	214189.360	4.5	218940.900	5.5
2104.0641	10.01	-3.82	313432.280	3.5	318183.690	4.5
2104.1297	10.00	-.29	159534.620	1.0	164285.882	0.0
2104.2236	18.01	-2.86	195128.270	4.5	199879.320	3.5
2104.2678	28.01	-3.64	130227.520	2.5	134978.470	2.5
2104.3033	28.01	.33	131796.260	2.5	136547.130	3.5
2104.3342	18.01	-4.67	203730.860	1.5	208481.660	.5
2104.3825	10.00	-4.61	167047.609	2.0	171798.300	1.0
2104.3825	10.00	-4.61	167047.609	2.0	171798.300	1.0
2104.5026	21.00	-2.23	29096.200	3.5	33846.620	3.5
2104.6403	11.00	-3.32	34548.731	2.5	39298.840	1.5
2104.6559	11.00	-4.28	34548.766	1.5	39298.840	1.5
2104.6931	29.01	-2.32	117231.690	1.0	121981.680	2.0
2104.6976	23.02	-3.26	156130.000	4.5	160879.980	4.5
2104.7197	28.00	-3.84	44336.100	4.0	49086.030	4.0
2104.7981	22.00	-3.60	34327.960	1.0	39077.713	1.0
2104.8305	6.00	-2.91	81769.790	2.0	86519.470	1.0
2104.8615	28.01	-.45	129503.240	4.5	134252.850	3.5
2104.8731	11.00	-3.58	34548.766	1.5	39298.350	.5
2104.9103	22.00	-2.93	41780.950	4.0	46530.450	4.0
2105.0192	18.00	-2.99	117183.654	2.0	121932.908	1.0
2105.0920	10.01	-2.36	276276.850	1.5	281025.940	2.5
2105.1186	17.00	-1.70	91564.300	.5	96313.330	1.5
2105.1407	28.00	-3.35	51124.800	3.0	55873.780	2.0
2105.2423	28.00	-2.65	44565.100	3.0	49313.851	3.0
2105.4600	28.01	-2.94	93528.440	3.5	98276.700	4.5
2105.5664	17.00	-4.80	96482.889	2.5	101230.909	3.5
2105.7052	26.00	-4.31	47271.999	1.0	52019.706	1.0
2105.8724	22.00	-3.19	37976.780	2.0	42724.110	2.0
2105.9833	24.00	-4.37	50057.610	2.0	54804.690	1.0
2106.0322	13.02	-.63	209263.250	3.5	214010.220	3.5
2106.0322	13.02	.92	209263.250	3.5	214010.220	4.5
2106.0322	13.02	.80	209263.250	2.5	214010.220	3.5
2106.1830	25.01	-1.33	82151.070	2.0	86897.700	3.0
2106.3516	28.01	-3.93	95332.530	2.5	100078.780	1.5
2106.4222	17.00	.01	95400.731	2.5	100146.822	3.5
2106.4537	28.01	.19	131796.260	2.5	136542.280	3.5
2106.5025	25.00	-5.00	58485.520	4.5	63231.430	4.5
2106.5203	23.00	-1.87	19189.280	1.5	23935.150	2.5
2106.7143	7.00	-3.82	111143.567	.5	115889.000	.5
2106.7143	7.00	-2.03	111143.567	.5	115889.000	1.5
2106.8310	28.01	-4.36	129782.070	3.5	134527.240	3.5
2106.9882	26.00	-4.91	44183.607	2.0	48928.423	2.0
2107.0530	10.01	-4.13	313457.540	2.5	318202.210	1.5
2107.0903	26.00	-3.37	47092.693	3.0	51837.279	3.0
2107.1907	24.00	-3.77	28679.430	1.0	33423.790	1.0
2107.2453	17.00	-.79	94663.670	1.5	99407.907	.5
2107.2529	26.00	-4.51	53229.940	1.0	57974.160	2.0
2107.3102	10.00	-4.97	167047.609	2.0	171791.700	2.0
2107.3102	10.00	-4.97	167047.609	2.0	171791.700	2.0
2107.5225	26.00	-2.64	45061.287	3.0	49804.900	3.0
2107.5980	20.00	-2.92	43933.477	1.0	48676.920	2.0
2107.6025	7.00	-2.66	111143.567	.5	115887.000	.5
2107.6025	7.00	-3.48	111143.567	.5	115887.000	1.5
2107.6287	26.00	-4.44	48531.896	3.0	53275.270	2.0
2107.8749	18.00	-2.44	118512.170	0.0	123254.990	1.0
2107.9150	18.01	-4.96	200234.860	2.5	204977.590	2.5
2108.2972	23.01	-3.66	32299.240	1.0	37041.110	2.0
2108.3417	23.00	-3.30	21603.170	4.5	26344.940	4.5
2108.4128	24.00	-3.82	28682.180	2.0	33423.790	1.0
2108.4172	13.01	-1.76	142601.600	3.0	147343.200	2.0
2108.4662	27.00	-2.96	45105.590	3.5	49847.080	2.5
2108.5240	8.01	-1.69	206971.300	2.5	211712.660	2.5
2108.5658	18.00	-3.80	121470.304	0.0	126211.570	1.0
2108.6174	14.00	-.86	59032.140	2.0	63773.290	3.0
2108.7361	26.00	-2.99	46720.824	4.0	51461.707	4.0
2108.7953	29.01	-2.93	128853.300	2.0	133594.050	3.0
2108.8175	21.00	-1.48	29022.870	2.5	33763.570	1.5
2108.8901	10.00	-4.70	167011.563	2.0	171752.100	1.0
2108.8901	10.00	-4.70	167011.563	2.0	171752.100	1.0
2108.9110	28.01	-.97	99340.550	3.5	104081.040	4.5
2108.9688	8.01	-2.92	206972.300	1.5	211712.660	2.5
2108.9866	14.02	-3.45	249817.320	3.0	254557.640	4.0
2109.1000	3.01	.18	554761.000	0.0	559502.359	0.0
2109.1556	14.02	-1.65	249817.320	3.0	254557.260	3.0
2109.2224	14.02	-1.91	249817.850	4.0	254557.640	4.0
2109.2580	14.02	-.59	249817.320	3.0	254557.030	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2109.2625	14.02	-2.01	249817.940	4.0	254557.640	4.0
2109.3471	17.00	-2.32	96313.330	1.5	101052.840	2.5
2109.3916	14.02	-.73	249817.850	4.0	254557.260	3.0
2109.4315	14.02	-.83	249817.940	4.0	254557.260	3.0
2109.7032	14.02	-.36	249818.930	5.0	254557.640	4.0
2109.7121	18.01	-4.79	203007.690	1.5	207746.380	2.5
2109.7379	7.00	-4.85	111501.368	1.5	116240.000	1.5
2109.7379	7.00	-2.45	111501.368	1.5	116240.000	2.5
2109.7655	9.02	-.04	452816.600	1.5	457555.170	1.5
2109.7850	26.00	-3.99	46410.366	1.0	51148.892	2.0
2109.8719	10.00	-4.72	167048.669	3.0	171787.000	3.0
2109.8719	10.00	-4.72	167048.669	3.0	171787.000	3.0
2109.8768	28.01	-3.65	116312.340	1.5	121050.660	2.5
2110.0059	25.00	-4.65	52883.870	1.5	57621.900	1.5
2110.1075	14.00	-2.32	59056.508	1.0	63794.310	2.0
2110.1858	17.00	-1.69	94973.683	.5	99711.309	.5
2110.2420	22.01	-3.50	64884.650	2.5	69622.150	2.5
2110.3622	6.00	-.97	83838.080	2.0	88575.310	3.0
2110.3756	13.01	-.70	142607.000	2.0	147344.200	3.0
2110.3890	9.00	-.64	125637.690	2.5	130374.860	1.5
2110.4469	25.00	-1.48	46901.130	2.5	51638.170	2.5
2110.4594	14.00	-1.51	59056.508	1.0	63793.520	1.0
2110.4647	15.00	-2.59	75689.200	1.5	80426.200	1.5
2110.4959	28.01	-2.78	94705.930	3.5	99442.860	4.5
2110.5351	7.00	-3.37	111165.158	1.5	115902.000	2.5
2110.5582	6.00	-1.45	83838.080	2.0	88574.870	3.0
2110.5671	6.00	-2.26	83838.080	2.0	88574.850	2.0
2110.8925	28.01	-3.85	94396.740	5.5	99132.780	5.5
2110.9906	28.01	-2.42	91800.050	4.5	96535.870	3.5
2110.9995	14.02	-.47	249966.490	6.0	254702.290	6.0
2110.9995	14.02	-.56	249966.490	6.0	254702.290	6.0
2110.9995	14.02	1.48	249966.490	6.0	254702.290	7.0
2110.9995	14.02	-3.59	249966.490	6.0	254702.290	7.0
2110.9995	14.02	-2.28	249966.490	6.0	254702.290	7.0
2110.9995	14.02	1.48	249966.490	6.0	254702.290	7.0
2110.9995	14.02	-2.50	249966.490	7.0	254702.290	6.0
2110.9995	14.02	-.48	249966.490	7.0	254702.290	7.0
2110.9995	14.02	-.55	249966.490	7.0	254702.290	7.0
2110.9995	14.02	1.54	249966.490	7.0	254702.290	8.0
2110.9995	14.02	1.41	249966.490	5.0	254702.290	6.0
2111.0886	28.01	-3.07	132225.150	1.5	136960.750	2.5
2111.3561	28.01	-.56	131796.260	2.5	136531.260	1.5
2111.3905	20.00	-.72	40690.435	0.0	45425.358	1.0
2111.4319	6.00	-3.30	84032.150	1.0	88766.980	1.0
2111.4342	17.00	-2.51	95612.357	1.5	100347.182	2.5
2111.6995	27.00	-4.84	50578.730	3.5	55312.960	4.5
2111.8740	26.00	-3.84	45608.341	6.0	50342.180	6.0
2111.9092	28.00	-2.16	50039.180	2.0	54772.940	3.0
2111.9436	18.00	-2.50	118651.447	1.0	123385.130	0.0
2112.0000	2.00	.12	185565.000	0.0	190299.848	0.0
2112.2394	6.00	-3.54	84103.100	2.0	88836.120	3.0
2112.2483	28.01	-4.25	131221.090	3.5	135954.090	3.5
2112.3108	25.00	-4.19	57621.900	1.5	62354.760	1.5
2112.3331	23.00	-1.64	37025.600	3.5	41758.410	3.5
2112.3791	26.00	-4.01	48928.423	2.0	53661.130	3.0
2112.4643	26.00	-1.92	43022.969	4.0	47755.485	3.0
2112.4715	10.01	-4.33	313469.890	3.5	318202.390	2.5
2112.6697	17.00	-1.13	96313.330	1.5	101045.386	1.5
2112.7170	10.01	-4.52	313470.420	2.5	318202.370	1.5
2112.9881	14.00	-2.12	56780.427	1.0	61511.770	1.0
2113.1144	14.01	-1.69	121814.640	.5	126545.700	.5
2113.2000	2.00	-.51	186210.000	0.0	190942.160	0.0
2113.2485	22.00	-4.35	34535.040	2.0	39265.800	2.0
2113.4852	28.01	-.91	116312.340	1.5	121042.570	1.5
2113.5076	28.01	-4.21	116312.340	1.5	121042.520	1.5
2113.5312	7.00	-4.05	111260.873	3.5	115991.000	2.5
2113.5612	14.00	-1.17	59032.140	2.0	63762.200	3.0
2113.6685	18.00	-2.82	120753.520	3.0	125483.340	2.0
2113.7355	18.01	-1.06	196621.880	3.5	201351.550	2.5
2113.7489	18.00	-1.57	120753.520	3.0	125483.160	3.0
2113.7516	8.00	-2.28	102865.518	4.0	107595.152	3.0
2113.7516	8.00	-1.10	102865.518	4.0	107595.152	4.0
2113.7516	8.00	-.24	102865.518	4.0	107595.152	5.0
2113.7668	8.00	-4.45	102865.559	3.0	107595.159	2.0
2113.7668	8.00	-2.90	102865.559	3.0	107595.159	3.0
2113.7668	8.00	-1.84	102865.559	3.0	107595.159	4.0
2113.7699	8.00	-1.99	102865.559	3.0	107595.152	2.0
2113.7699	8.00	-.97	102865.559	3.0	107595.152	3.0
2113.7699	8.00	-.42	102865.559	3.0	107595.152	4.0
2113.7932	8.00	-3.11	102865.618	2.0	107595.159	2.0
2113.7932	8.00	-2.20	102865.618	2.0	107595.159	3.0
2113.7963	8.00	-1.99	102865.618	2.0	107595.152	1.0
2113.7963	8.00	-.99	102865.618	2.0	107595.152	2.0
2113.7963	8.00	-.61	102865.618	2.0	107595.152	3.0
2113.8150	8.00	-2.82	102865.667	1.0	107595.159	2.0
2113.8181	8.00	-1.14	102865.667	1.0	107595.152	1.0
2113.8181	8.00	-.84	102865.667	1.0	107595.152	2.0
2113.8288	8.00	-1.13	102865.691	0.0	107595.152	1.0
2113.9009	30.02	-1.73	260584.100	1.0	265313.400	2.0
2113.9545	18.00	-1.57	120753.520	3.0	125482.700	3.0
2113.9545	18.00	-.20	120753.520	3.0	125482.700	4.0
2113.9782	7.00	-2.39	111260.873	3.5	115990.000	2.5
2114.1056	26.00	-4.92	43434.585	3.0	48163.427	2.0
2114.1065	28.01	-4.54	116512.060	3.5	121240.900	3.5
2114.2585	17.01	-3.83	140740.000	1.0	145468.500	1.0
2114.2943	25.00	-4.15	57305.620	3.5	62034.040	3.5
2114.3032	13.02	-.60	209284.530	4.5	214012.930	4.5
2114.3032	13.02	1.13	209284.530	4.5	214012.930	5.5
2114.3032	13.02	1.05	209284.530	3.5	214012.930	4.5
2114.4490	26.00	-4.04	49433.108	2.0	54161.182	3.0
2114.6118	27.00	-4.10	48615.560	2.5	53343.270	1.5
2114.7894	22.00	-3.96	37325.407	2.0	42052.720	3.0
2114.9965	22.00	-2.78	42311.310	3.0	47038.160	3.0
2115.1590	22.00	-4.72	41341.553	5.0	46068.040	4.0
2115.1621	6.00	-3.08	83848.830	3.0	88575.310	3.0
2115.1621	6.00	-1.07	83848.830	3.0	88575.310	4.0
2115.1979	15.00	-1.37	75699.800	.5	80426.200	1.5
2115.3590	6.00	-2.50	83848.830	3.0	88574.870	3.0
2115.3679	6.00	-4.35	83848.830	3.0	88574.850	2.0
2115.4933	28.01	-2.88	116468.400	1.5	121194.140	2.5
2115.5784	6.00	-.17	79310.850	2.0	84036.400	2.0
2115.5873	6.00	-3.01	84984.970	3.0	89710.500	3.0
2115.6142	29.01	-1.64	135863.930	1.0	140589.400	0.0
2115.6277	6.00	-1.12	79310.850	2.0	84036.290	1.0
2115.7117	14.00	-3.39	59034.988	3.0	63760.240	3.0
2115.7350	13.01	-.81	139916.700	1.0	144641.900	0.0
2115.9052	27.00	-4.73	47977.940	.5	52702.760	1.5
2116.0351	23.00	-3.22	17116.920	3.5	21841.450	2.5
2116.1426	23.00	-4.59	39341.760	3.5	44066.050	3.5
2116.1829	10.01	-4.79	313461.970	4.5	318186.170	4.5
2116.1919	10.01	-4.65	313461.990	5.5	318186.170	4.5
2116.1964	10.01	-4.31	313461.970	4.5	318186.140	5.5
2116.2053	10.01	-2.86	313461.990	5.5	318186.140	5.5
2116.2546	26.00	-4.07	49242.680	2.0	53966.720	2.0
2116.3406	26.00	-4.18	49242.872	3.0	53966.720	2.0
2116.3433	7.00	-3.81	111165.158	1.5	115889.000	.5
2116.3433	7.00	-2.63	111165.158	1.5	115889.000	1.5
2116.3576	28.01	-.84	116732.510	2.5	121456.320	1.5
2116.4428	23.02	-4.43	155853.000	2.5	160576.620	3.5
2116.5637	27.00	-3.54	46329.630	2.5	51052.980	3.5
2116.6171	18.00	-2.65	114147.750	1.0	118870.981	0.0
2116.6323	14.00	-1.69	59037.043	4.0	63760.240	3.0
2116.7717	28.00	-1.78	42605.964	3.0	47328.850	2.0
2116.8129	26.00	-3.45	47017.170	3.0	51739.964	2.0
2116.8147	25.00	-4.18	41031.480	4.5	45754.270	3.5
2116.8236	10.01	-2.85	313457.540	2.5	318180.310	2.5
2116.8273	22.00	-4.85	31628.668	5.0	36351.430	5.0
2116.8371	10.01	-2.15	313457.570	3.5	318180.310	2.5
2116.8416	28.01	-2.64	116838.330	1.5	121561.060	.5
2117.0164	24.00	-3.14	50264.480	3.0	54986.820	3.0
2117.0209	10.01	-2.27	313457.540	2.5	318179.870	1.5
2117.0792	13.01	-1.57	139916.700	1.0	144638.900	1.0
2117.0792	13.01	-1.10	139916.700	1.0	144638.900	2.0
2117.1419	10.01	-3.94	313469.890	3.5	318191.950	3.5
2117.2397	7.00	-2.85	111165.158	1.5	115887.000	.5
2117.2397	7.00	-2.18	111165.158	1.5	115887.000	1.5
2117.2397	7.00	-1.85	111165.158	1.5	115887.000	2.5
2117.2765	13.02	-2.42	209288.460	4.5	214010.220	4.5
2117.2765	13.02	-.68	209288.460	5.5	214010.220	4.5
2117.2765	13.02	-.77	209288.460	4.5	214010.220	3.5
2117.3393	6.00	-3.79	81769.790	2.0	86491.410	1.0
2117.3796	10.01	-4.95	313470.420	2.5	318191.950	3.5
2117.3841	10.01	-4.30	313470.420	2.5	318191.940	2.5
2117.4168	28.00	-1.24	49032.589	2.0	53754.036	2.0
2117.7205	28.01	-3.80	131233.320	4.5	135954.090	3.5
2117.8201	26.00	-4.49	24335.764	2.0	29056.312	3.0
2118.3622	29.01	-3.71	130945.000	2.0	135664.340	1.0
2118.3981	6.00	-4.05	83919.760	2.0	88639.020	1.0
2118.5368	10.00	-1.13	166967.669	0.0	171686.620	1.0
2118.6795	17.00	-2.53	97807.707	2.5	102526.340	2.5
2118.7155	17.00	-1.22	97807.707	2.5	102526.260	3.5
2118.7258	18.01	-2.16	196633.020	2.5	201351.550	2.5
2118.7393	15.01	-.80	124947.600	2.0	129666.100	2.0
2118.7824	7.00	-2.98	111271.596	.5	115990.000	.5
2118.7824	7.00	-3.06	111271.596	.5	115990.000	1.5
2118.8983	17.00	-.18	94482.236	2.5	99200.382	3.5
2119.1345	6.00	.32	79318.780	1.0	84036.400	2.0
2119.1839	6.00	.05	79318.780	1.0	84036.290	1.0
2119.3231	12.02	-2.46	582074.400	2.0	586791.600	2.0
2119.3456	6.00	-3.90	83919.650	3.0	88636.800	2.0
2119.3807	14.00	-.89	59056.508	1.0	63773.580	2.0
2119.3950	6.00	-4.74	83919.760	2.0	88636.800	2.0
2119.5335	26.00	-3.06	46744.975	3.0	51461.707	4.0
2119.6063	21.00	-2.38	29189.830	4.5	33906.400	4.5
2119.6108	28.01	-2.70	101144.630	3.5	105861.190	2.5
2119.6332	24.00	-4.64	50102.040	3.0	54818.550	2.0
2119.7590	18.01	-4.41	200234.860	2.5	204951.090	3.5
2120.0189	26.00	-3.06	46888.494	2.0	51604.146	3.0
2120.3031	28.01	-3.00	103653.030	3.5	108368.050	2.5
2120.3031	26.00	-4.42	46889.126	4.0	51604.146	3.0
2120.4160	10.00	-2.03	166975.341	1.0	171690.110	2.0
2120.5909	10.01	-4.19	313469.890	3.5	318184.270	4.5
2120.5954	10.01	-4.79	313469.890	3.5	318184.260	3.5
2120.6764	20.02	-2.47	385757.600	3.0	390471.790	4.0
2120.7079	24.00	-3.39	30858.820	2.0	35572.940	2.0
2120.7933	12.00	-2.02	54248.809	0.0	58962.739	1.0
2120.8338	10.01	-3.05	313470.420	2.5	318184.260	3.5
2120.8518	10.01	-2.97	313469.890	3.5	318183.690	4.5
2121.1534	6.00	.17	79323.160	0.0	84036.290	1.0
2121.1983	27.00	-3.83	42811.440	3.5	47524.470	4.5
2121.3559	10.01	-2.14	276276.850	1.5	280989.530	1.5
2121.3604	23.00	-3.65	20202.490	2.5	24915.160	1.5
2121.3680	12.00	-1.55	54250.086	1.0	58962.739	1.0
2121.3784	27.00	-4.65	46329.630	2.5	51042.260	2.5
2121.5584	28.01	-4.98	103025.580	2.5	107737.810	1.5
2121.5719	18.01	-1.07	196633.020	2.5	201345.220	1.5
2121.6323	26.00	-2.67	45333.834	2.0	50045.900	2.0
2121.6710	22.00	-4.42	36132.210	4.0	40844.190	3.0
2121.6926	17.00	-.67	95534.923	.5	100246.855	1.5
2121.7557	12.00	-4.88	47844.414	1.0	52556.206	0.0
2121.7836	28.01	-2.51	116191.470	2.5	120903.200	3.5
2121.8124	22.00	-4.99	20209.444	2.0	24921.110	1.0
2121.8385	22.00	-4.26	17369.590	1.0	22081.198	2.0
2121.8921	22.00	-2.70	31489.451	4.0	36200.940	5.0
2121.8966	14.00	-2.26	58775.451	2.0	63486.930	1.0
2121.9051	14.01	-1.49	121814.640	.5	126526.100	1.5
2121.9173	7.00	-2.62	111143.567	.5	115855.000	.5
2121.9173	7.00	-2.93	111143.567	.5	115855.000	1.5
2121.9772	18.01	-.59	200393.020	4.5	205104.320	4.5
2121.9867	10.00	-1.27	166975.341	1.0	171686.620	1.0
2121.9867	10.00	-.80	166975.341	1.0	171686.620	2.0
2122.1349	13.02	-1.97	209284.530	3.5	213995.480	3.5
2122.1349	13.02	-.42	209284.530	4.5	213995.480	3.5
2122.1349	13.02	-.54	209284.530	3.5	213995.480	2.5
2122.2380	26.00	-2.67	43325.946	3.0	48036.667	2.0
2122.2925	6.00	-4.62	83926.200	3.0	88636.800	2.0
2122.5571	12.00	-1.32	54252.726	2.0	58962.739	1.0
2122.8243	9.00	-3.91	129381.860	2.5	134091.280	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2122.8261	26.00	-3.58	45333.834	2.0	50043.250	1.0
2122.9370	29.01	-1.13	116080.460	3.0	120789.630	4.0
2123.3518	26.02	-4.33	200384.280	3.0	205092.530	4.0
2123.3658	12.00	-1.60	56308.381	2.0	61016.600	2.0
2123.3658	12.00	-1.71	56308.381	2.0	61016.600	3.0
2123.3658	12.00	-.53	56308.381	2.0	61016.600	3.0
2123.3725	17.00	-1.31	94973.683	.5	99681.887	1.5
2123.5052	14.02	-2.92	249966.490	5.0	254674.400	5.0
2123.5052	14.02	-3.03	249966.490	5.0	254674.400	5.0
2123.5052	14.02	-4.82	249966.490	5.0	254674.400	6.0
2123.5052	14.02	-1.12	249966.490	6.0	254674.400	5.0
2123.5052	14.02	-4.58	249966.490	6.0	254674.400	5.0
2123.5052	14.02	-1.12	249966.490	6.0	254674.400	5.0
2123.5052	14.02	-2.93	249966.490	6.0	254674.400	6.0
2123.5052	14.02	-3.01	249966.490	6.0	254674.400	6.0
2123.5052	14.02	-1.05	249966.490	7.0	254674.400	6.0
2123.5052	14.02	-1.20	249966.490	5.0	254674.400	4.0
2123.6676	29.01	-.53	116371.410	4.0	121078.960	3.0
2123.6857	18.01	1.15	200393.020	4.5	205100.530	5.5
2123.8557	26.00	-2.29	39969.830	3.0	44676.963	4.0
2124.1513	28.00	-1.90	44565.100	3.0	49271.578	3.0
2124.3806	10.01	-4.36	313480.200	3.5	318186.170	4.5
2124.3987	10.01	-2.96	313480.240	4.5	318186.170	4.5
2124.4122	10.01	-4.56	313480.240	4.5	318186.140	5.5
2124.6199	18.01	-.97	190592.170	1.5	195297.610	1.5
2124.6343	28.00	-3.10	44112.192	1.0	48817.600	1.0
2124.6578	7.00	-2.76	111285.644	1.5	115991.000	2.5
2124.6605	6.00	-4.05	83919.650	3.0	88625.000	3.0
2124.8908	26.00	-3.07	49850.610	3.0	54555.450	4.0
2125.0760	28.01	-2.13	99442.860	4.5	104147.290	5.5
2125.1095	7.00	-2.39	111285.644	1.5	115990.000	.5
2125.1095	7.00	-2.22	111285.644	1.5	115990.000	1.5
2125.1095	7.00	-2.28	111285.644	1.5	115990.000	2.5
2125.2115	23.00	-2.88	34537.210	1.5	39241.340	2.5
2125.2567	29.01	-.53	118163.500	2.0	122867.530	1.0
2125.3968	10.01	-4.17	313457.570	3.5	318161.290	2.5
2125.4962	12.02	-1.31	582074.400	2.0	586777.900	3.0
2125.5324	10.01	-4.17	313457.570	3.5	318160.990	3.5
2125.6408	17.00	-4.05	97530.130	2.5	102233.310	2.5
2125.7719	9.00	-3.25	129381.860	2.5	134084.750	2.5
2125.7809	10.01	-.97	303071.840	2.5	307774.710	1.5
2125.9256	6.00	-.40	79310.850	2.0	84013.400	2.0
2125.9572	21.00	-1.36	29096.200	3.5	33798.680	2.5
2125.9934	6.00	.73	79310.850	2.0	84013.250	3.0
2126.1064	27.00	-3.72	45876.580	2.5	50578.730	3.5
2126.2104	27.00	-2.07	44782.130	4.5	49484.050	3.5
2126.2466	26.00	-1.16	50045.900	2.0	54747.740	1.0
2126.2891	26.00	-4.11	47555.584	1.0	52257.330	0.0
2126.3777	15.01	-4.94	105550.450	2.0	110252.000	1.0
2126.4438	7.00	-2.92	111271.596	.5	115973.000	1.5
2126.5266	26.00	-3.69	47136.058	2.0	51837.279	3.0
2126.8075	6.00	-3.26	83497.620	2.0	88198.220	2.0
2126.8256	18.01	-4.47	195281.380	.5	199981.940	1.5
2127.0881	23.02	-4.18	155981.500	3.5	160681.480	3.5
2127.1084	20.00	-4.85	38219.118	2.0	42919.053	2.0
2127.1243	30.02	-1.89	257796.000	5.0	262495.900	4.0
2127.2555	10.01	-4.02	313457.540	2.5	318157.150	3.5
2127.2691	10.01	-2.72	313457.570	3.5	318157.150	3.5
2127.4230	18.01	-.82	186470.280	1.5	191169.520	1.5
2127.4321	27.00	-3.59	41225.760	4.5	45924.980	3.5
2127.4457	22.00	-2.76	38159.710	3.0	42858.900	3.0
2127.4638	24.00	-4.15	50105.540	1.0	54804.690	1.0
2127.5226	10.01	-3.05	313461.970	4.5	318160.990	3.5
2127.5634	29.01	-1.55	137034.970	3.0	141733.900	2.0
2127.6222	6.00	-4.21	83926.200	3.0	88625.000	3.0
2127.7128	15.00	-2.78	75484.400	2.5	80183.000	2.5
2127.7627	10.01	-3.98	313457.570	3.5	318156.060	4.5
2127.7717	23.00	-3.00	34428.760	1.5	39127.230	1.5
2127.7884	7.00	-2.42	111143.567	.5	115842.000	.5
2127.7884	7.00	-3.92	111143.567	.5	115842.000	1.5
2127.8486	15.00	-2.33	76425.200	2.5	81123.500	2.5
2127.9918	7.00	-2.38	111204.016	2.5	115902.000	2.5
2127.9918	7.00	-1.85	111204.016	2.5	115902.000	3.5
2128.0299	6.00	-4.75	83947.430	3.0	88645.330	2.0
2128.0312	18.00	-1.96	119683.113	2.0	124381.010	2.0
2128.1548	5.00	-1.67	57786.376	.5	62484.000	1.5
2128.3470	26.02	-2.52	200395.330	5.0	205092.530	4.0
2128.4009	26.00	-4.86	45726.104	5.0	50423.185	4.0
2128.4195	23.02	-3.33	155682.600	3.5	160379.640	2.5
2128.4417	26.00	-4.73	24772.019	1.0	29469.010	2.0
2128.4440	5.00	-1.41	57787.014	1.5	62484.000	2.5
2128.4440	5.00	-2.37	57787.014	1.5	62484.000	1.5
2128.4467	10.01	-4.73	318828.550	3.5	323525.530	4.5
2128.5047	22.00	-4.73	38451.298	2.0	43148.150	3.0
2128.5191	20.02	-2.37	385775.500	4.0	390472.320	5.0
2128.7594	20.02	-3.94	385775.500	4.0	390471.790	4.0
2128.7820	23.00	-4.51	20202.490	2.5	24898.730	2.5
2128.8777	28.00	-1.35	44475.158	2.0	49171.187	1.0
2129.2626	10.01	-2.07	313461.970	4.5	318157.150	3.5
2129.2672	28.01	-.40	113177.610	3.5	117872.780	2.5
2129.2898	18.01	-3.12	191169.520	1.5	195864.640	2.5
2129.4078	10.01	-3.88	318828.550	3.5	323523.410	2.5
2129.4078	10.01	-3.81	318828.550	2.5	323523.410	2.5
2129.4894	6.00	-4.06	83497.620	2.0	88192.300	1.0
2129.5167	6.00	.03	79318.780	1.0	84013.400	2.0
2129.5801	27.00	-2.75	41528.530	5.5	46223.010	4.5
2129.6300	20.02	-2.97	385757.600	3.0	390451.970	3.0
2129.7571	10.01	-2.73	313461.970	4.5	318156.060	4.5
2129.7661	10.01	-1.91	313461.990	5.5	318156.060	4.5
2129.9340	29.01	-3.39	141733.900	2.0	146427.600	1.0
2130.0566	28.01	-3.63	101144.630	3.5	105838.060	3.5
2130.0656	28.01	-2.90	116468.400	1.5	121161.810	1.5
2130.1305	18.00	-2.84	119683.113	2.0	124376.380	1.0
2130.1405	28.00	-3.12	50039.180	2.0	54732.425	2.0
2130.4469	18.00	-2.09	119444.880	2.0	124137.450	2.0
2130.5196	18.00	-.85	119444.880	2.0	124137.290	3.0
2130.5922	17.00	-1.88	97530.130	2.5	102222.380	3.5
2130.7289	22.00	-1.19	31373.801	3.0	36065.750	3.0
2131.0119	10.00	-2.73	167000.034	4.0	171691.360	3.0
2131.0119	10.00	-1.18	167000.034	4.0	171691.360	4.0
2131.0692	6.00	-3.54	84103.100	2.0	88794.300	2.0
2131.1599	17.00	-1.46	94663.670	1.5	99354.670	1.5
2131.1781	29.01	-2.10	116388.000	2.0	121078.960	3.0
2131.2190	6.00	-2.65	83947.430	3.0	88638.300	2.0
2131.2190	6.00	-3.28	83947.430	3.0	88638.300	3.0
2131.2236	18.00	-3.08	119444.880	2.0	124135.740	3.0
2131.4280	24.00	-3.98	33906.650	1.0	38597.060	1.0
2131.5098	10.00	-1.29	167001.130	3.0	171691.360	3.0
2131.5098	10.00	-2.79	167001.130	3.0	171691.360	4.0
2131.5453	7.00	-2.77	111198.848	.5	115889.000	.5
2131.5453	7.00	-1.90	111198.848	.5	115889.000	1.5
2131.5798	10.00	-2.47	167000.034	4.0	171690.110	3.0
2131.6862	7.00	-2.62	111165.158	1.5	115855.000	.5
2131.6862	7.00	-2.12	111165.158	1.5	115855.000	1.5
2131.6862	7.00	-3.37	111165.158	1.5	115855.000	2.5
2131.9053	28.01	-3.28	94729.250	2.5	99418.610	3.5
2132.0690	17.01	-2.60	146330.000	1.0	151019.000	2.0
2132.0690	13.01	-.93	140091.200	1.0	144780.200	2.0
2132.0781	10.00	-2.60	167001.130	3.0	171690.110	2.0
2132.0781	10.00	-4.02	167001.130	3.0	171690.110	3.0
2132.1145	8.01	-5.00	251224.100	2.5	255913.000	1.5
2132.1921	7.00	-4.12	111213.271	1.5	115902.000	2.5
2132.2613	14.00	-2.91	57468.239	2.0	62156.816	2.0
2132.2736	17.00	-2.54	97530.130	2.5	102218.680	2.5
2132.3737	28.01	.03	130942.300	1.5	135630.630	2.5
2132.3782	11.00	-1.21	35040.380	.5	39728.700	1.5
2132.4101	17.00	-3.80	97530.130	2.5	102218.380	1.5
2132.4546	7.00	-3.06	111198.848	.5	115887.000	.5
2132.4546	7.00	-2.40	111198.848	.5	115887.000	1.5
2132.5147	27.00	-3.98	46872.740	3.5	51560.760	2.5
2132.5393	10.00	-1.88	167000.034	4.0	171688.000	4.0
2132.5393	10.00	-.24	167000.034	4.0	171688.000	5.0
2132.5619	14.00	-1.80	58801.524	1.0	63489.440	2.0
2132.5774	26.00	-3.79	47017.170	3.0	51705.052	2.0
2132.6375	6.00	-3.86	84103.100	2.0	88790.850	1.0
2132.7012	22.00	-4.02	38544.380	3.0	43231.990	4.0
2132.8168	7.00	-2.28	111285.644	1.5	115973.000	1.5
2132.9104	6.00	-4.18	83919.650	3.0	88606.800	3.0
2132.9195	18.00	-2.49	121096.670	0.0	125783.800	1.0
2133.0379	10.00	-.34	167001.130	3.0	171688.000	4.0
2133.0821	8.00	-2.95	102908.386	3.0	107595.159	2.0
2133.0821	8.00	-1.41	102908.386	3.0	107595.159	3.0
2133.0821	8.00	-.34	102908.386	3.0	107595.159	4.0
2133.0852	8.00	-3.50	102908.386	3.0	107595.152	2.0
2133.0852	8.00	-2.48	102908.386	3.0	107595.152	3.0
2133.0852	8.00	-1.92	102908.386	3.0	107595.152	4.0
2133.1135	8.00	-1.40	102908.455	2.0	107595.159	2.0
2133.1135	8.00	-.50	102908.455	2.0	107595.159	3.0
2133.1167	8.00	-3.70	102908.455	2.0	107595.152	1.0
2133.1167	8.00	-2.70	102908.455	2.0	107595.152	2.0
2133.1167	8.00	-2.32	102908.455	2.0	107595.152	3.0
2133.1344	8.00	-.66	102908.501	1.0	107595.159	2.0
2133.1376	8.00	-3.00	102908.501	1.0	107595.152	2.0
2133.1376	8.00	-3.30	102908.501	1.0	107595.152	1.0
2133.1426	6.00	-2.42	83947.430	3.0	88634.070	4.0
2133.1517	10.01	-4.06	318828.550	2.5	323515.170	3.5
2133.1517	10.01	-3.05	318828.550	3.5	323515.170	3.5
2133.1836	6.00	-1.32	83947.430	3.0	88633.980	3.0
2133.1872	14.00	-2.67	59034.988	3.0	63721.530	2.0
2133.2814	18.00	-1.77	107131.755	1.0	111818.090	1.0
2133.3247	27.00	-3.20	45924.980	3.5	50611.220	3.5
2133.3975	28.01	-4.74	133809.760	3.5	138495.840	4.5
2133.5022	11.00	-.95	35042.850	1.5	39728.700	2.5
2133.5022	11.00	-1.91	35042.850	1.5	39728.700	1.5
2133.6616	28.01	-3.94	94283.940	4.5	98969.440	5.5
2133.7891	25.00	-4.30	57705.830	.5	62391.050	.5
2133.7982	17.01	-2.45	146333.800	2.0	151019.000	2.0
2133.8438	6.00	-4.81	83919.650	3.0	88604.750	2.0
2133.8939	6.00	-3.87	83919.760	2.0	88604.750	2.0
2133.8966	7.00	-4.25	111204.016	2.5	115889.000	1.5
2133.9121	10.01	-4.38	318828.550	3.5	323513.500	3.5
2134.1170	21.01	-1.82	55715.520	1.0	60400.020	1.0
2134.1262	10.01	-4.47	318828.550	3.5	323513.030	4.5
2134.1590	10.00	-3.26	165912.782	1.0	170597.190	2.0
2134.1763	25.00	-1.92	57705.830	.5	62390.200	1.5
2134.1859	10.00	-3.49	166975.341	1.0	171659.690	2.0
2134.1945	18.01	-2.02	195297.610	1.5	199981.940	1.5
2134.2857	15.01	-1.29	107923.570	2.0	112607.700	2.0
2134.3895	28.00	-.91	44475.158	2.0	49159.060	2.0
2134.4907	10.01	-4.82	318841.850	3.5	323525.530	4.5
2134.5089	10.01	-4.71	318841.890	4.5	323525.530	4.5
2134.5226	10.01	-4.68	318841.890	4.5	323525.500	5.5
2134.5467	17.00	-1.16	97842.783	1.5	102526.340	2.5
2134.6776	18.01	-3.70	194996.490	1.5	199679.760	2.5
2134.8079	7.00	-3.02	111204.016	2.5	115887.000	1.5
2134.8079	7.00	-2.23	111204.016	2.5	115887.000	3.5
2134.9055	23.00	-2.91	37075.640	4.5	41758.410	3.5
2134.9921	26.00	-4.16	49242.680	2.0	53925.260	1.0
2135.2475	28.01	-4.79	129988.050	2.5	134670.070	1.5
2135.3478	29.01	-3.74	141733.900	2.0	146415.700	2.0
2135.4199	14.00	.08	50189.389	2.0	54871.031	1.0
2135.4978	10.00	-2.48	164285.882	0.0	168967.353	1.0
2135.5804	28.01	-.00	130942.300	1.5	135623.590	1.5
2135.6215	13.01	-1.09	142601.600	3.0	147282.800	2.0
2135.6215	13.01	-1.99	142601.600	3.0	147282.800	3.0
2135.6717	10.01	-2.14	313480.200	3.5	318161.290	2.5
2135.6749	22.00	-3.38	32857.721	3.0	37538.804	2.0
2135.6972	26.00	-4.71	46889.126	4.0	51570.160	3.0
2135.6991	14.02	-1.28	240262.280	1.0	244943.310	2.0
2135.8086	10.01	-2.87	313480.200	3.5	318160.990	3.5
2135.8269	10.01	-2.03	313480.240	4.5	318160.990	3.5
2135.8815	18.00	-2.20	121096.670	0.0	125777.300	1.0
2135.8952	6.00	-3.97	83926.200	3.0	88606.800	3.0
2135.9728	6.00	-3.03	83926.370	4.0	88606.800	3.0
2136.0915	27.00	-3.62	28470.510	1.5	33150.680	1.5
2136.1874	25.00	-4.28	41403.930	2.5	46083.890	1.5
2136.2640	22.00	-4.71	29855.248	1.0	34535.040	2.0
2136.4375	14.00	-4.02	59034.988	3.0	63714.400	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2136.4430	6.00	-1.11	81769.790	2.0	86449.190	3.0
2136.5389	18.00	-2.50	119760.220	1.0	124439.410	0.0
2136.7078	28.01	-4.60	129294.510	2.5	133973.330	2.5
2136.7535	27.00	-3.51	49025.420	1.5	53704.140	2.5
2136.8175	28.01	-3.01	116468.400	1.5	121146.980	2.5
2136.8312	6.00	-3.30	83926.200	3.0	88604.750	2.0
2136.8325	10.00	-1.71	167011.563	2.0	171690.110	2.0
2136.8325	10.00	-.57	167011.563	2.0	171690.110	3.0
2136.8951	12.01	.39	92790.510	.5	97468.920	1.5
2136.8997	15.01	-1.59	124947.600	2.0	129626.000	1.0
2136.9864	6.00	-3.99	84116.090	1.0	88794.300	2.0
2136.9955	12.01	-1.62	112197.060	2.5	116875.250	2.5
2136.9955	12.01	-.32	112197.060	2.5	116875.250	3.5
2137.0412	12.01	-.47	112197.160	1.5	116875.250	2.5
2137.1354	26.00	-3.26	47092.693	3.0	51770.577	3.0
2137.2185	26.00	-3.38	45509.112	1.0	50186.814	2.0
2137.2606	28.01	-.29	130942.300	1.5	135619.910	1.5
2137.3109	15.01	-.15	124433.100	1.0	129110.600	1.0
2137.5622	10.01	-3.32	313480.200	3.5	318157.150	3.5
2137.5805	26.02	-2.78	200325.560	4.0	205002.470	3.0
2137.5805	10.01	-3.27	313480.240	4.5	318157.150	3.5
2137.6116	7.00	-2.42	111165.158	1.5	115842.000	.5
2137.6116	7.00	-3.12	111165.158	1.5	115842.000	1.5
2137.7815	20.02	-4.38	385775.500	4.0	390451.970	3.0
2137.8044	27.00	-3.53	48026.340	.5	52702.760	1.5
2137.8684	14.00	-2.18	59118.030	3.0	63794.310	2.0
2137.9644	27.00	-4.66	47393.930	2.5	52070.000	2.5
2138.0604	10.01	-4.35	313480.200	3.5	318156.060	4.5
2138.0787	10.01	-3.44	313480.240	4.5	318156.060	4.5
2138.0970	28.01	-.13	130942.300	1.5	135618.080	2.5
2138.1203	7.00	-3.07	111213.271	1.5	115889.000	.5
2138.1203	7.00	-2.90	111213.271	1.5	115889.000	1.5
2138.2846	6.00	-4.39	79310.850	2.0	83986.220	3.0
2138.4277	10.00	-2.14	167011.563	2.0	171686.620	1.0
2138.4277	10.00	-1.18	167011.563	2.0	171686.620	2.0
2138.5636	6.00	-3.88	84116.090	1.0	88790.850	1.0
2138.6679	10.00	-1.61	167794.968	2.0	172469.500	2.0
2138.6679	10.00	-.47	167794.968	2.0	172469.500	3.0
2138.7603	29.01	.39	133727.870	2.0	138402.200	3.0
2138.8564	27.00	-2.99	49484.050	3.5	54158.170	4.5
2138.9021	20.01	-1.14	68056.910	2.5	72730.930	2.5
2138.9021	20.01	.16	68056.910	3.5	72730.930	2.5
2138.9067	6.00	-2.12	84851.530	1.0	89525.540	1.0
2139.0353	7.00	-3.37	111213.271	1.5	115887.000	.5
2139.0353	7.00	-2.67	111213.271	1.5	115887.000	1.5
2139.0353	7.00	-2.53	111213.271	1.5	115887.000	2.5
2139.0866	18.00	-2.32	119683.113	2.0	124356.730	2.0
2139.0930	10.00	-2.94	167795.897	3.0	172469.500	2.0
2139.0930	10.00	-1.76	167795.897	3.0	172469.500	3.0
2139.0930	10.00	-1.64	167795.897	3.0	172469.500	3.0
2139.0930	10.00	-.33	167795.897	3.0	172469.500	4.0
2139.0944	29.01	-4.03	141542.100	2.0	146215.700	1.0
2139.2225	10.01	-3.24	318841.850	3.5	323515.170	3.5
2139.2316	13.01	-2.26	138496.700	1.0	143170.000	0.0
2139.2316	13.01	-1.87	138496.700	1.0	143170.000	1.0
2139.2316	13.01	-1.56	138496.700	1.0	143170.000	2.0
2139.2408	10.01	-2.72	318841.890	4.5	323515.170	3.5
2139.5659	10.00	-2.60	168586.860	0.0	173259.430	1.0
2139.5723	10.00	-1.79	167796.944	2.0	172469.500	2.0
2139.5723	10.00	-.46	167796.944	2.0	172469.500	3.0
2139.5723	10.00	-2.93	167796.944	2.0	172469.500	3.0
2139.7088	10.00	-3.96	165912.782	1.0	170585.040	1.0
2139.8865	18.01	-1.27	186340.480	1.5	191012.350	1.5
2139.9872	10.01	-4.09	318841.850	3.5	323513.500	3.5
2140.0055	10.01	-3.12	318841.890	4.5	323513.500	3.5
2140.1430	28.00	-2.10	49032.589	2.0	53703.899	1.0
2140.2026	10.01	-4.74	318841.850	3.5	323513.030	4.5
2140.2209	10.01	-3.17	318841.890	4.5	323513.030	4.5
2140.2484	14.02	-.58	240262.280	1.0	244933.360	1.0
2140.2530	23.00	-2.49	36983.630	1.5	41654.700	2.5
2140.3446	6.00	-3.46	84851.530	1.0	89522.400	2.0
2140.5110	10.00	-4.00	167591.233	2.0	172261.740	1.0
2140.6287	10.01	-3.53	276276.850	1.5	280947.100	1.5
2140.6837	6.00	-3.92	83926.370	4.0	88596.500	4.0
2140.7002	18.00	-2.50	121161.356	1.0	125831.450	0.0
2140.7387	10.01	.38	302750.810	3.5	307420.820	2.5
2140.7892	28.01	-1.64	116786.420	.5	121456.320	1.5
2140.9130	6.00	-3.17	84121.220	0.0	88790.850	1.0
2141.4770	27.00	-1.98	45924.980	3.5	50593.380	4.5
2141.6257	22.00	-2.77	37538.804	2.0	42206.880	2.0
2141.6376	18.01	-.14	204929.400	.5	209597.450	1.5
2141.8280	26.00	-4.93	29371.860	3.0	34039.495	4.0
2141.8487	27.00	-3.42	49847.080	2.5	54514.670	3.5
2141.9207	14.00	-3.45	56780.427	1.0	61447.860	2.0
2142.0277	8.03	-1.80	591899.000	.5	596566.200	.5
2142.0277	8.03	-1.80	591899.000	1.5	596566.200	.5
2142.0414	18.01	-.96	199446.540	.5	204113.710	1.5
2142.1974	18.01	-3.65	203344.980	1.5	208011.810	1.5
2142.2034	10.00	-1.61	162410.174	3.0	167076.991	4.0
2142.2075	10.00	-3.03	162410.174	3.0	167076.982	3.0
2142.2443	22.00	-3.09	29661.232	1.0	34327.960	1.0
2142.3765	14.02	.02	240262.280	1.0	244928.720	0.0
2142.6120	18.00	-1.65	119683.113	2.0	124349.040	3.0
2142.6612	18.01	-1.49	204585.640	2.5	209251.460	3.5
2142.7163	15.00	-3.44	75956.700	3.5	80622.400	2.5
2142.7586	10.00	-4.42	165912.782	1.0	170578.390	1.0
2142.8081	23.00	-1.72	36989.200	2.5	41654.700	2.5
2142.8908	20.01	.01	68056.910	2.5	72722.230	1.5
2142.9092	14.00	-1.66	59118.030	3.0	63783.310	4.0
2143.0194	28.01	-2.94	115000.250	3.5	119665.290	2.5
2143.2169	12.01	.08	92790.510	.5	97455.120	.5
2143.2997	22.00	-3.97	41985.830	3.0	46650.260	3.0
2143.4045	7.00	-4.23	111326.798	2.5	115991.000	2.5
2143.4449	26.00	-4.60	47106.463	4.0	51770.577	3.0
2143.5525	6.00	-4.08	84103.100	2.0	88766.980	1.0
2143.5525	18.01	-1.84	194861.270	2.5	199525.150	1.5
2143.5768	17.00	-1.89	90948.530	1.5	95612.357	1.5
2143.8641	7.00	-2.17	111326.798	2.5	115990.000	1.5
2143.8641	7.00	-1.63	111326.798	2.5	115990.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2143.9009	10.00	-.78	167026.988	1.0	171690.110	2.0
2143.9648	22.00	-4.30	37325.407	2.0	41988.390	3.0
2143.9983	18.01	-2.74	204585.640	2.5	209248.550	2.5
2144.0214	24.00	-4.83	52720.070	4.0	57382.930	5.0
2144.1262	7.00	-3.52	111501.368	1.5	116164.000	.5
2144.1262	7.00	-2.85	111501.368	1.5	116164.000	1.5
2144.1262	7.00	-2.35	111501.368	1.5	116164.000	2.5
2144.4122	18.01	-1.93	195297.610	1.5	199959.620	2.5
2144.5089	13.01	-1.19	142607.000	2.0	147268.800	1.0
2144.5360	10.00	-.66	167807.759	1.0	172469.500	2.0
2144.6469	28.01	-3.33	134267.200	6.5	138928.700	7.5
2144.9690	13.01	-1.28	144964.700	3.0	149625.500	2.0
2144.9690	13.01	-2.70	144964.700	3.0	149625.500	3.0
2144.9690	13.01	-4.13	144964.700	3.0	149625.500	4.0
2144.9690	13.01	-1.79	144964.700	4.0	149625.500	3.0
2144.9690	13.01	-.76	144964.700	4.0	149625.500	3.0
2144.9690	13.01	-2.57	144964.700	4.0	149625.500	4.0
2144.9690	13.01	-2.71	144964.700	4.0	149625.500	4.0
2144.9690	13.01	-1.04	144964.700	5.0	149625.500	4.0
2145.0279	28.00	-3.15	50039.180	2.0	54699.852	3.0
2145.1420	10.00	-2.47	162408.653	2.0	167069.077	2.0
2145.1480	10.00	-1.33	162408.653	2.0	167069.064	3.0
2145.1531	15.00	-.82	75675.900	1.5	80336.300	2.5
2145.2226	11.00	-1.68	34548.731	2.5	39208.980	2.5
2145.2226	11.00	-.38	34548.731	2.5	39208.980	3.5
2145.2387	11.00	-.53	34548.766	1.5	39208.980	2.5
2145.2682	29.01	-3.19	137073.750	2.0	141733.900	2.0
2145.3699	20.00	-4.30	38259.124	3.0	42919.053	2.0
2145.3741	18.00	-1.74	118512.170	0.0	123172.090	1.0
2145.5066	10.00	-1.70	167026.988	1.0	171686.620	1.0
2145.5066	10.00	-1.48	167026.988	1.0	171686.620	2.0
2145.6190	14.00	-1.50	59110.892	2.0	63770.280	1.0
2145.6319	22.00	-3.51	38670.710	4.0	43330.070	5.0
2145.6319	22.00	-2.89	41585.240	3.0	46244.600	2.0
2145.7838	14.02	-.11	240284.280	2.0	244943.310	2.0
2145.7930	10.01	-1.61	303518.210	1.5	308177.220	1.5
2145.8423	10.00	-3.34	162410.174	3.0	167069.077	2.0
2145.8437	6.00	-2.77	84851.530	1.0	89510.430	2.0
2145.8483	10.00	-2.04	162410.174	3.0	167069.064	3.0
2145.8962	12.00	-1.24	52556.206	0.0	57214.992	1.0
2145.9036	24.00	-3.87	28679.430	1.0	33338.200	0.0
2145.9115	37.00	-1.67	26311.437	0.0	30971.461	0.0
2146.0764	17.00	-2.46	95313.749	1.5	99972.144	.5
2146.1109	28.01	-4.99	131221.090	3.5	135879.410	3.5
2146.1197	17.00	-4.92	96482.889	2.5	101141.190	3.5
2146.4280	7.00	-3.34	111501.368	1.5	116159.000	2.5
2146.5602	22.00	-4.46	17423.853	2.0	22081.198	2.0
2146.7192	10.00	-1.73	162419.982	2.0	167076.982	3.0
2146.7515	10.01	-2.17	303237.910	1.5	307894.840	2.5
2146.8160	21.00	-1.24	29189.830	4.5	33846.620	3.5
2146.8331	17.00	-3.31	90487.870	3.5	95144.623	2.5
2146.8575	28.01	-.69	130942.300	1.5	135599.000	.5
2146.8667	27.00	-4.41	47977.940	.5	52634.620	.5
2146.9866	27.00	-3.58	42434.230	2.5	47090.650	2.5
2147.0604	24.00	-4.66	31377.960	4.0	36034.220	3.0
2147.1102	7.00	-2.44	111198.848	.5	115855.000	.5
2147.1102	7.00	-3.35	111198.848	.5	115855.000	1.5
2147.1803	28.01	-3.01	115000.250	3.5	119656.250	3.5
2147.3878	14.00	-3.52	59118.030	3.0	63773.580	2.0
2147.4247	24.00	-3.98	37883.340	2.0	42538.810	3.0
2147.4847	23.01	-4.19	32299.240	1.0	36954.580	1.0
2147.5216	14.00	-1.99	59118.030	3.0	63773.290	3.0
2147.8630	28.01	-4.90	74300.930	1.5	78955.450	1.5
2147.9027	8.00	-2.27	102928.355	4.0	107582.789	3.0
2148.0199	14.00	-1.36	59190.460	1.0	63844.640	0.0
2148.1076	10.01	-5.00	277344.290	2.5	281998.280	2.5
2148.2184	27.00	-1.67	45924.980	3.5	50578.730	3.5
2148.2729	7.00	-2.64	111501.368	1.5	116155.000	.5
2148.2729	7.00	-3.62	111501.368	1.5	116155.000	1.5
2148.3569	27.00	-4.49	48317.170	3.5	52970.620	2.5
2148.4123	15.00	-.55	68088.270	1.5	72741.600	1.5
2148.4308	28.01	-1.47	116732.510	2.5	121385.800	1.5
2148.4908	21.00	-3.09	11557.640	2.5	16210.800	3.5
2148.5185	24.00	-4.33	50018.800	1.0	54671.900	1.0
2148.6802	17.00	-3.53	91660.580	2.5	96313.330	1.5
2148.9480	27.00	-4.58	50925.110	1.5	55577.280	1.5
2148.9808	26.00	-4.89	47960.973	4.0	52613.072	5.0
2149.1374	23.00	-3.58	34747.060	3.5	39398.820	3.5
2149.2113	13.01	-3.45	142849.200	4.0	147500.800	4.0
2149.2113	13.01	-3.59	142849.200	4.0	147500.800	4.0
2149.2113	13.01	-1.92	142849.200	5.0	147500.800	4.0
2149.2344	10.01	-2.89	302247.780	3.5	306899.330	2.5
2149.2806	24.00	-2.33	50557.560	4.0	55209.010	4.0
2149.3116	22.00	-2.55	37659.927	3.0	42311.310	3.0
2149.3172	17.00	-1.43	90749.360	2.5	95400.731	2.5
2149.4000	2.00	-.95	191217.000	0.0	195869.461	0.0
2149.4886	13.01	-3.58	142849.200	3.0	147500.200	3.0
2149.4886	13.01	-2.32	142849.200	4.0	147500.200	3.0
2149.4886	13.01	-1.50	142849.200	4.0	147500.200	3.0
2149.4959	7.00	-1.83	111204.016	2.5	115855.000	1.5
2149.4959	7.00	-2.42	111204.016	2.5	115855.000	2.5
2149.6735	13.01	-2.15	142849.200	3.0	147499.800	2.0
2149.6827	6.00	-4.48	83986.220	3.0	88636.800	2.0
2149.8121	12.02	-4.57	582134.800	4.0	586785.100	3.0
2149.8209	14.00	-2.03	59109.959	3.0	63760.240	3.0
2150.0156	18.01	.06	200406.360	.5	205056.220	1.5
2150.0294	23.00	-3.19	34477.400	.5	39127.230	1.5
2150.2523	14.00	-3.39	59110.892	2.0	63760.240	3.0
2150.2921	17.00	-4.33	95597.593	.5	100246.855	1.5
2150.3670	13.01	-3.64	105438.400	1.0	110087.500	2.0
2150.3694	10.00	-2.19	162419.982	2.0	167069.077	2.0
2150.3754	10.00	-3.36	162419.982	2.0	167069.064	3.0
2150.3763	14.02	-.27	240284.280	2.0	244933.360	1.0
2150.3842	17.00	-1.07	90948.530	1.5	95597.593	.5
2150.4457	25.00	-3.76	57705.830	.5	62354.760	1.5
2150.5798	18.01	-1.77	195031.120	2.5	199679.760	2.5
2150.6631	14.02	-3.99	249937.290	4.0	254585.750	5.0
2150.6631	14.02	-2.24	249937.290	5.0	254585.750	5.0
2150.6631	14.02	-2.35	249937.290	5.0	254585.750	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2150.6631	14.02	-.52	249937.290	6.0	254585.750	5.0
2150.7108	10.00	-2.49	167011.563	2.0	171659.920	3.0
2150.8172	10.00	-3.64	167011.563	2.0	171659.690	2.0
2151.1027	14.02	-.70	249937.290	4.0	254584.800	3.0
2151.1027	14.02	-2.35	249937.290	4.0	254584.800	4.0
2151.1027	14.02	-.60	249937.290	5.0	254584.800	4.0
2151.1199	37.00	-2.15	26311.437	0.0	30960.178	0.0
2151.1259	23.02	-2.95	155496.800	1.5	160144.260	1.5
2151.1305	26.00	-4.15	47420.000	2.0	52067.450	2.0
2151.1606	20.00	-4.54	39333.382	0.0	43980.767	1.0
2151.1907	29.01	-2.11	136336.880	1.0	140984.200	1.0
2151.1953	14.02	-.61	249937.290	5.0	254584.600	4.0
2151.1953	14.02	-4.27	249937.290	5.0	254584.600	4.0
2151.1953	14.02	-2.25	249937.290	4.0	254584.600	4.0
2151.2134	26.00	-4.53	47092.693	3.0	51739.964	2.0
2151.2323	24.00	-3.89	50557.560	4.0	55204.790	3.0
2151.2971	27.00	-2.51	48217.320	3.5	52864.410	4.5
2151.4499	6.00	-.91	81769.790	2.0	86416.550	1.0
2151.4777	15.00	-2.93	76875.400	1.5	81522.100	2.5
2151.5305	26.00	-2.86	43108.899	4.0	47755.485	3.0
2151.6120	18.01	-1.74	201608.820	3.5	206255.230	2.5
2151.6259	27.00	-3.00	43555.220	3.5	48201.600	3.5
2151.7083	7.00	-2.81	111326.798	2.5	115973.000	1.5
2151.7602	28.01	-4.31	131233.320	4.5	135879.410	3.5
2151.9130	6.00	-4.84	84121.220	0.0	88766.980	1.0
2152.0589	20.00	-4.06	39335.322	1.0	43980.767	1.0
2152.1998	8.00	-4.03	102928.355	4.0	107573.496	3.0
2152.2035	8.00	-4.72	102928.355	4.0	107573.488	4.0
2152.3161	14.00	-.41	59118.030	3.0	63762.920	4.0
2152.3578	15.00	-3.64	76425.200	2.5	81070.000	1.5
2152.4041	12.02	-3.03	582134.800	4.0	586779.500	4.0
2152.4597	22.01	-2.37	64977.570	3.5	69622.150	2.5
2152.6498	14.00	-1.68	59118.030	3.0	63762.200	3.0
2152.7268	10.00	-1.81	162408.653	2.0	167052.657	2.0
2152.7323	10.00	-2.76	162408.653	2.0	167052.645	1.0
2152.7563	10.01	-.54	302425.870	1.5	307069.810	1.5
2152.7688	14.00	-1.69	57198.027	3.0	61841.940	2.0
2152.8440	10.00	-.53	167047.609	2.0	171691.360	3.0
2152.8676	15.00	-2.37	75905.100	2.5	80548.800	2.5
2153.1217	7.00	-2.84	111198.848	.5	115842.000	.5
2153.1217	7.00	-2.95	111198.848	.5	115842.000	1.5
2153.1458	12.02	-3.98	582134.800	4.0	586777.900	3.0
2153.1982	26.00	-4.02	44285.436	2.0	48928.423	2.0
2153.2479	18.01	-2.37	209248.550	2.5	213891.430	2.5
2153.2984	18.00	-3.35	117151.387	1.0	121794.158	0.0
2153.3040	22.00	-1.09	31489.451	4.0	36132.210	4.0
2153.3355	10.00	-1.84	167048.669	3.0	171691.360	3.0
2153.3355	10.00	-.40	167048.669	3.0	171691.360	4.0
2153.3453	18.01	-3.71	209248.550	2.5	213891.220	1.5
2153.4163	18.00	-1.25	107496.463	1.0	112138.980	2.0
2153.4237	10.00	-1.23	167047.609	2.0	171690.110	2.0
2153.4237	10.00	-2.38	167047.609	2.0	171690.110	3.0
2153.4320	10.00	-3.38	162410.174	3.0	167052.657	2.0
2153.4519	24.00	-4.32	30858.820	2.0	35501.260	3.0
2153.4997	12.00	-1.88	54676.438	3.0	59318.775	2.0
2153.5048	12.00	-3.16	54676.438	3.0	59318.764	3.0
2153.6175	12.00	-2.19	54676.710	2.0	59318.793	1.0
2153.6259	12.00	-3.09	54676.710	2.0	59318.775	2.0
2153.6259	12.00	-3.97	54676.710	3.0	59318.775	2.0
2153.6310	12.00	-4.46	54676.710	2.0	59318.764	3.0
2153.6310	12.00	-3.30	54676.710	3.0	59318.764	3.0
2153.6310	12.00	-1.86	54676.710	4.0	59318.764	3.0
2153.7818	7.00	-2.75	111213.271	1.5	115855.000	.5
2153.7818	7.00	-2.65	111213.271	1.5	115855.000	1.5
2153.9154	10.00	-2.38	167048.669	3.0	171690.110	2.0
2153.9154	10.00	-1.08	167048.669	3.0	171690.110	3.0
2153.9344	15.01	-1.08	127756.300	2.0	132397.700	2.0
2154.0319	18.01	-2.76	203501.800	2.5	208142.990	3.5
2154.0612	7.00	-2.64	111260.873	3.5	115902.000	3.5
2154.2654	20.00	-3.83	39340.080	2.0	43980.767	1.0
2154.2835	17.00	-1.57	95706.534	1.5	100347.182	2.5
2154.3661	26.00	-3.97	49850.610	3.0	54491.080	3.0
2154.3847	23.00	-3.66	34486.800	2.5	39127.230	1.5
2154.4548	26.00	-4.47	47197.000	2.0	51837.279	3.0
2154.4688	14.00	-1.67	57295.881	0.0	61936.130	1.0
2154.5982	18.01	-3.67	209251.460	3.5	213891.430	2.5
2154.8175	14.00	-2.68	59110.892	2.0	63750.390	1.0
2154.8816	27.00	-4.24	48217.320	3.5	52856.680	3.5
2154.8955	27.00	-3.25	47393.930	2.5	52033.260	1.5
2154.9141	23.02	-4.57	155682.600	3.5	160321.890	2.5
2155.0437	10.00	-2.51	167047.609	2.0	171686.620	1.0
2155.0437	10.00	-3.46	167047.609	2.0	171686.620	2.0
2155.0767	7.00	-4.22	110349.060	2.5	114988.000	2.5
2155.0957	26.00	-3.11	49627.861	4.0	54266.760	5.0
2155.1138	7.00	-2.91	110349.140	3.5	114988.000	2.5
2155.1231	6.00	-2.80	83919.760	2.0	88558.600	1.0
2155.1510	6.00	-4.10	83986.220	3.0	88625.000	3.0
2155.2017	26.00	-4.42	49108.876	4.0	53747.547	3.0
2155.2579	6.00	-2.92	83986.450	4.0	88625.000	3.0
2155.4251	6.00	-4.59	83497.620	2.0	88135.810	3.0
2155.4298	28.01	-1.23	99442.860	4.5	104081.040	4.5
2155.5209	7.00	-2.83	111204.016	2.5	115842.000	1.5
2155.5362	10.00	-2.32	167048.669	3.0	171686.620	2.0
2155.7393	17.00	-4.35	91069.020	.5	95706.534	1.5
2155.7909	20.00	-2.94	43933.477	1.0	48570.880	2.0
2155.8486	17.00	-1.40	95612.357	1.5	100249.636	2.5
2156.0945	18.01	-.38	201608.820	3.5	206245.570	3.5
2156.3271	27.00	-4.44	48334.370	1.5	52970.620	2.5
2156.3611	20.00	-1.20	42919.053	2.0	47555.230	3.0
2156.3643	28.01	-3.52	130480.550	3.5	135116.720	2.5
2156.4108	23.00	-.82	20202.490	2.5	24838.560	3.5
2156.4168	17.00	-4.16	95534.923	.5	100170.980	1.5
2156.5364	19.02	-3.25	237912.200	1.5	242548.000	.5
2156.7690	22.00	-2.95	41895.150	5.0	46530.450	4.0
2157.0003	28.00	-2.19	42790.027	2.0	47424.830	1.0
2157.0017	22.00	-3.82	37976.780	2.0	42611.580	1.0
2157.0296	23.00	-2.86	32348.890	.5	36983.630	1.5
2157.0855	28.01	-2.87	94705.930	3.5	99340.550	3.5
2157.1325	26.00	-3.58	47136.058	2.0	51770.577	3.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
2157.1423	17.00	-.78	95612.357	1.5	100246.855	1.5
2157.1646	24.00	-4.00	50184.100	2.0	54818.550	2.0
2157.3662	26.00	-4.38	49135.003	3.0	53769.020	4.0
2157.5077	26.00	-4.75	49433.108	2.0	54066.821	2.0
2157.5910	17.00	-1.71	96594.096	.5	101227.630	.5
2157.6488	25.00	-2.00	47154.510	1.5	51787.920	.5
2157.6539	10.00	-1.70	162435.678	1.0	167069.077	2.0
2157.7466	6.00	-3.73	84013.400	2.0	88646.600	1.0
2157.8397	30.02	-3.38	260623.100	4.0	265256.100	3.0
2157.8523	5.00	-3.52	60031.027	2.5	64664.000	2.5
2157.8523	5.00	-2.22	60031.027	3.5	64664.000	2.5
2157.8523	5.00	-2.38	60031.027	2.5	64664.000	1.5
2157.8946	10.00	-4.20	167052.657	2.0	171685.539	3.0
2157.9562	23.01	-4.01	32040.760	2.0	36673.510	2.0
2157.9785	10.00	-3.03	167026.988	1.0	171659.690	2.0
2157.9911	10.00	-4.63	162419.982	2.0	167052.657	2.0
2157.9967	10.00	-3.56	162419.982	2.0	167052.645	1.0
2158.0051	10.00	-4.39	167052.645	1.0	171685.290	2.0
2158.1472	17.00	.34	91680.990	1.5	96313.330	1.5
2158.1658	23.01	-4.12	44098.460	3.0	48730.760	4.0
2158.5521	14.00	-1.08	57328.789	1.0	61960.260	0.0
2158.5610	10.00	-2.61	167449.464	1.0	172080.916	1.0
2158.7996	29.01	-1.02	135958.460	1.0	140589.400	0.0
2158.8695	25.00	-4.56	52758.110	4.5	57388.900	4.5
2158.9525	26.00	-4.47	49108.876	4.0	53739.488	5.0
2158.9582	13.01	-.93	144638.900	2.0	149269.500	2.0
2158.9582	13.01	-.19	144638.900	1.0	149269.500	2.0
2158.9582	13.01	-.39	144638.900	2.0	149269.500	3.0
2158.9582	13.01	-2.47	144638.900	3.0	149269.500	2.0
2158.9582	13.01	-1.29	144638.900	3.0	149269.500	3.0
2158.9582	13.01	.14	144638.900	3.0	149269.500	4.0
2158.9656	18.00	-1.80	121161.356	1.0	125791.940	2.0
2159.1078	10.00	-3.66	167052.645	1.0	171682.924	1.0
2159.1134	10.00	-3.28	167052.657	2.0	171682.924	1.0
2159.1306	27.00	-4.78	50925.110	1.5	55555.340	2.5
2159.1726	28.00	-2.11	50142.800	3.0	54772.940	3.0
2159.2169	20.00	-4.44	43933.477	1.0	48563.522	2.0
2159.2426	27.00	-3.19	49847.080	2.5	54477.070	3.5
2159.3218	26.00	-4.23	47420.000	2.0	52049.820	2.0
2159.3359	9.02	-.85	452816.600	1.5	457446.390	.5
2159.3867	26.00	-2.93	46720.824	4.0	51350.505	4.0
2159.4063	22.00	-4.10	37555.021	3.0	42184.660	4.0
2159.4478	28.01	-2.26	130470.900	4.5	135100.450	3.5
2159.5882	20.00	-4.70	41679.008	1.0	46308.257	2.0
2159.6577	23.00	-2.72	37025.600	3.5	41654.700	2.5
2159.8308	7.00	-3.14	111213.271	1.5	115842.000	.5
2159.8308	7.00	-2.25	111213.271	1.5	115842.000	1.5
2159.8410	10.00	-4.02	167052.645	1.0	171681.352	2.0
2159.8466	10.00	-3.07	167052.657	2.0	171681.352	2.0
2159.8537	14.02	.65	240314.630	3.0	244943.310	2.0
2159.8877	18.00	-2.11	119683.113	2.0	124311.720	1.0
2159.9283	25.00	-4.31	51560.930	5.5	56189.450	4.5
2159.9377	15.01	.39	125391.900	4.0	130020.400	3.0
2160.0180	14.00	-3.43	59131.912	4.0	63760.240	3.0
2160.0217	28.01	-4.31	131221.090	3.5	135849.410	2.5
2160.1663	6.00	-2.75	81769.790	2.0	86397.800	3.0
2160.2270	6.00	-3.70	83947.430	3.0	88575.310	3.0
2160.2270	6.00	-2.29	83947.430	3.0	88575.310	4.0
2160.2798	22.00	-3.15	29907.273	2.0	34535.040	2.0
2160.3577	26.00	-4.68	49297.660	1.0	53925.260	1.0
2160.4325	6.00	-2.90	83947.430	3.0	88574.870	3.0
2160.4511	24.00	-4.84	50018.800	1.0	54646.200	0.0
2160.7219	21.00	-2.36	33154.010	2.5	37780.830	1.5
2160.8000	2.00	.03	191445.000	0.0	196072.916	0.0
2160.9228	28.01	-4.95	131223.020	2.5	135849.410	2.5
2161.0456	7.00	-1.68	111260.873	3.5	115887.000	3.5
2161.2825	6.00	-2.94	84013.400	2.0	88639.020	1.0
2161.3278	14.00	-.62	57198.027	3.0	61823.550	2.0
2161.4554	6.00	-3.86	83919.650	3.0	88544.900	3.0
2161.4554	18.01	-4.86	209248.550	2.5	213873.800	2.5
2161.5068	6.00	-5.00	83919.760	2.0	88544.900	3.0
2161.5628	18.01	-2.01	209248.550	2.5	213873.570	3.5
2161.6330	23.00	-4.57	33481.450	3.5	38106.320	2.5
2161.6750	26.00	-4.97	46026.980	6.0	50651.760	7.0
2161.7000	2.00	-.44	191447.000	0.0	196072.989	0.0
2161.7400	20.00	-.52	41679.008	1.0	46303.649	2.0
2161.8994	28.01	-2.81	101357.200	4.5	105981.500	4.5
2162.0397	17.01	-1.76	146469.000	3.0	151093.000	3.0
2162.2501	6.00	-2.70	84013.250	3.0	88636.800	2.0
2162.3202	6.00	-3.63	84013.400	2.0	88636.800	2.0
2162.5237	20.00	-1.07	41679.008	1.0	46301.973	1.0
2162.6009	15.01	-.30	124947.600	2.0	129570.400	1.0
2162.6112	22.00	-2.00	29912.262	3.0	34535.040	2.0
2162.6243	29.01	-2.58	136919.350	3.0	141542.100	2.0
2162.6795	7.00	-3.26	111501.368	1.5	116124.000	.5
2162.6795	7.00	-2.56	111501.368	1.5	116124.000	1.5
2162.6795	7.00	-2.59	111501.368	1.5	116124.000	2.5
2162.7674	18.00	-2.19	121161.356	1.0	125783.800	1.0
2162.8161	18.01	-3.56	209251.460	3.5	213873.800	2.5
2162.8302	28.01	-3.53	116468.400	1.5	121090.710	.5
2162.8348	13.01	-2.47	133914.100	2.0	138536.400	3.0
2162.8915	10.00	-4.92	167639.561	1.0	172261.740	1.0
2162.9238	18.01	-3.44	209251.460	3.5	213873.570	3.5
2162.9331	26.00	-1.32	49502.530	5.0	54124.620	4.0
2163.0071	10.00	-1.91	167449.464	1.0	172071.396	2.0
2163.0595	23.00	-3.51	34619.520	2.5	39241.340	2.5
2163.0922	6.00	-2.63	83919.650	3.0	88541.400	2.0
2163.1437	6.00	-4.19	83919.760	2.0	88541.400	2.0
2163.2560	29.01	-4.54	134359.900	1.0	138981.300	2.0
2163.4948	21.00	-3.95	11520.150	1.5	16141.040	2.5
2163.5416	18.00	-2.28	119760.220	1.0	124381.010	2.0
2163.6353	24.00	-4.99	50184.100	2.0	54804.690	1.0
2163.6400	6.00	-3.59	83986.220	3.0	88606.800	3.0
2163.7477	6.00	-2.83	83986.450	4.0	88606.800	3.0
2163.9584	28.01	-2.57	130480.550	3.5	135100.450	3.5
2164.1037	6.00	-3.71	81769.790	2.0	86389.380	2.0
2164.2512	10.00	-3.14	167052.645	1.0	171671.920	1.0
2164.2568	10.00	-2.72	167052.657	2.0	171671.920	1.0
2164.3332	15.00	-.96	75689.200	1.5	80308.300	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2164.4335	22.00	-2.27	41341.553	5.0	45960.439	6.0
2164.5206	6.00	-4.27	83926.200	3.0	88544.900	3.0
2164.5300	10.01	.15	303518.210	1.5	308136.890	1.5
2164.5347	7.00	-3.99	110385.330	2.5	115004.000	2.5
2164.5347	7.00	-4.97	110385.330	3.5	115004.000	2.5
2164.5928	28.00	-1.08	50142.800	3.0	54761.346	4.0
2164.6003	6.00	-2.75	83986.220	3.0	88604.750	2.0
2164.6003	6.00	-2.55	83926.370	4.0	88544.900	3.0
2164.6256	26.00	-3.68	47136.058	2.0	51754.534	1.0
2164.7597	26.02	-3.73	200384.280	3.0	205002.470	3.0
2164.8426	26.00	-2.40	43137.472	3.0	47755.485	3.0
2164.8534	28.01	-1.12	116838.330	1.5	121456.320	1.5
2164.9191	28.01	-4.43	117074.700	3.5	121692.550	4.5
2165.0128	28.01	-2.74	131075.780	1.5	135693.430	2.5
2165.1282	7.00	-3.05	111271.596	.5	115889.000	.5
2165.1282	7.00	-3.77	111271.596	.5	115889.000	1.5
2165.1769	26.01	-2.26	82853.500	5.5	87470.800	4.5
2165.2360	14.00	-1.83	56978.256	1.0	61595.430	1.0
2165.2613	20.02	-4.55	385775.500	4.0	390392.620	3.0
2165.2848	7.00	-4.65	110485.930	1.5	115103.000	2.5
2165.2941	10.01	-3.53	246394.130	2.5	251011.180	2.5
2165.3223	7.00	-3.43	110486.010	2.5	115103.000	2.5
2165.3275	10.00	-4.16	162435.678	1.0	167052.657	2.0
2165.3331	10.00	-2.09	162435.678	1.0	167052.645	1.0
2165.5358	10.00	-3.03	167052.645	1.0	171669.180	0.0
2165.5639	10.00	-2.96	167069.064	3.0	171685.539	3.0
2165.5700	10.00	-4.26	167069.077	2.0	171685.539	3.0
2165.6197	7.00	-1.94	111285.644	1.5	115902.000	2.5
2165.6459	15.01	-2.65	127756.300	2.0	132372.600	1.0
2165.6807	10.00	-4.30	167069.064	3.0	171685.290	2.0
2165.6868	10.00	-3.11	167069.077	2.0	171685.290	2.0
2165.7116	18.00	-2.10	119760.220	1.0	124376.380	1.0
2165.7511	26.00	-4.60	45726.104	5.0	50342.180	6.0
2165.8130	18.00	-2.50	121161.356	1.0	125777.300	1.0
2165.8759	14.01	-1.92	118523.120	1.5	123138.930	1.5
2165.9087	14.01	-.97	118523.190	2.5	123138.930	1.5
2165.9097	28.00	-3.79	47424.830	1.0	52040.568	2.0
2166.0213	13.01	-1.63	142849.200	4.0	147464.700	4.0
2166.0213	13.01	-1.77	142849.200	4.0	147464.700	4.0
2166.0213	13.01	-0.00	142849.200	4.0	147464.700	5.0
2166.0213	13.01	-4.19	142849.200	4.0	147464.700	5.0
2166.0213	13.01	-3.10	142849.200	4.0	147464.700	5.0
2166.0213	13.01	-0.00	142849.200	4.0	147464.700	5.0
2166.0213	13.01	-3.39	142849.200	5.0	147464.700	4.0
2166.0213	13.01	-1.64	142849.200	5.0	147464.700	5.0
2166.0213	13.01	-1.75	142849.200	5.0	147464.700	5.0
2166.0213	13.01	.08	142849.200	5.0	147464.700	6.0
2166.0213	13.01	-.10	142849.200	3.0	147464.700	4.0
2166.0542	10.00	-2.23	167060.301	4.0	171675.731	3.0
2166.0664	7.00	-2.02	111271.596	.5	115887.000	.5
2166.0664	7.00	-1.94	111271.596	.5	115887.000	1.5
2166.1621	6.00	-4.06	83926.200	3.0	88541.400	2.0
2166.1781	10.00	-3.78	167060.301	4.0	171675.467	4.0
2166.1809	10.00	-2.13	167060.307	5.0	171675.467	4.0
2166.2889	10.01	-.57	303279.910	2.5	307894.840	2.5
2166.3039	14.00	-1.79	57541.918	1.0	62156.816	2.0
2166.3644	10.00	-4.05	167639.561	1.0	172254.330	0.0
2166.4053	10.00	-2.60	167867.178	0.0	172481.860	1.0
2166.4776	8.00	-4.81	102968.261	2.0	107582.789	1.0
2166.4776	8.00	-4.30	102968.261	3.0	107582.789	2.0
2166.4776	8.00	-4.09	102968.261	4.0	107582.789	3.0
2166.5217	8.00	-2.53	102968.355	2.0	107582.789	1.0
2166.5217	8.00	-3.26	102968.355	2.0	107582.789	2.0
2166.5217	8.00	-4.80	102968.355	2.0	107582.789	3.0
2166.5217	8.00	-2.36	102968.355	3.0	107582.789	2.0
2166.5217	8.00	-3.26	102968.355	3.0	107582.789	3.0
2166.5607	10.00	-2.54	167846.689	2.0	172461.040	1.0
2166.6565	14.00	-2.26	56690.903	2.0	61305.050	3.0
2166.6593	14.00	-1.19	58311.659	0.0	62925.800	1.0
2166.6598	26.00	-4.87	40894.972	2.0	45509.112	1.0
2166.6833	7.00	-4.67	110486.010	2.5	115100.100	2.5
2166.7396	11.00	-3.58	34586.960	2.5	39200.930	2.5
2166.7396	11.00	-2.28	34586.960	3.5	39200.930	2.5
2166.7396	11.00	-2.43	34586.960	2.5	39200.930	1.5
2166.7541	7.00	-2.16	111853.061	1.5	116467.000	1.5
2166.7541	7.00	-1.47	111853.061	1.5	116467.000	.5
2166.7973	10.00	-2.68	167069.077	2.0	171682.924	1.0
2166.8100	28.01	-.68	101247.370	2.5	105861.190	2.5
2166.9697	18.00	-.42	119444.880	2.0	124058.360	3.0
2167.0073	8.03	-1.81	591899.000	.5	596512.400	1.5
2167.0073	8.03	-1.60	591899.000	1.5	596512.400	1.5
2167.0167	14.00	-1.49	56690.903	2.0	61304.283	2.0
2167.1106	6.00	-1.64	84032.150	1.0	88645.330	1.0
2167.1106	6.00	-2.36	84032.150	1.0	88645.330	2.0
2167.1482	10.00	-4.05	167648.640	2.0	172261.740	1.0
2167.2845	6.00	-3.22	84036.290	1.0	88649.100	0.0
2167.3597	9.00	-3.45	125877.280	1.5	130489.930	.5
2167.3925	28.01	-4.36	133169.920	3.5	137782.500	4.5
2167.4395	7.00	-3.48	110404.520	2.5	115017.000	1.5
2167.4404	14.00	-.23	56690.903	2.0	61303.381	3.0
2167.4964	26.00	-4.21	47092.693	3.0	51705.052	2.0
2167.5297	10.00	-2.45	167069.064	3.0	171681.352	2.0
2167.5358	10.00	-3.60	167069.077	2.0	171681.352	2.0
2167.5434	17.00	-1.70	96930.181	.5	101542.440	1.5
2167.5528	12.00	-3.11	54706.536	1.0	59318.775	2.0
2167.5753	10.00	-3.54	167846.430	3.0	172458.621	3.0
2167.5819	10.00	-2.21	167846.444	4.0	172458.621	3.0
2167.6270	10.00	-3.99	167047.609	2.0	171659.690	2.0
2167.6270	10.00	-3.00	167047.609	2.0	171659.690	3.0
2167.6463	28.01	-3.73	132120.700	.5	136732.740	1.5
2167.6651	30.02	-1.44	257908.200	1.0	262520.200	2.0
2167.6661	10.00	-2.36	167846.430	3.0	172458.428	2.0
2167.6839	18.01	-3.67	209248.550	2.5	213860.510	3.5
2167.6914	10.00	-3.62	167846.677	3.0	172458.621	3.0
2167.6971	10.00	-4.82	167846.689	2.0	172458.621	3.0
2167.7827	6.00	-3.93	84013.250	3.0	88625.000	3.0
2167.7878	10.00	-3.50	167846.689	2.0	172458.428	2.0
2167.8667	14.00	-1.24	59109.959	3.0	63721.530	2.0
2167.9236	10.00	-4.48	167846.430	3.0	172457.880	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2168.0172	10.00	-3.84	167048.669	3.0	171659.920	3.0
2168.0172	10.00	-2.87	167048.669	3.0	171659.920	4.0
2168.0398	10.00	-2.34	167846.677	3.0	172457.880	2.0
2168.0454	10.00	-3.67	167846.689	2.0	172457.880	2.0
2168.1254	10.00	-4.31	167048.669	3.0	171659.690	3.0
2168.1493	29.01	-3.26	129116.900	3.0	133727.870	2.0
2168.3054	14.00	-2.00	59110.892	2.0	63721.530	2.0
2168.4080	22.00	-4.51	41457.620	3.0	46068.040	4.0
2168.4597	6.00	-4.00	84036.290	1.0	88646.600	1.0
2168.4644	15.00	-1.65	75689.200	1.5	80299.500	1.5
2168.4739	6.00	-4.94	83986.220	3.0	88596.500	4.0
2168.5115	6.00	-2.82	84036.400	2.0	88646.600	1.0
2168.5368	18.00	-1.90	118651.447	1.0	123261.593	2.0
2168.5820	6.00	-3.38	83986.450	4.0	88596.500	4.0
2168.7415	28.00	-1.71	44565.100	3.0	49174.811	4.0
2168.9612	26.00	-4.17	43922.652	3.0	48531.896	3.0
2168.9725	18.00	-3.88	119444.880	2.0	124054.100	3.0
2168.9866	14.02	-.29	240262.280	1.0	244871.470	1.0
2169.0525	18.01	-2.24	209251.460	3.5	213860.510	3.5
2169.1043	18.01	-1.90	209251.460	3.5	213860.400	4.5
2169.1184	6.00	-1.28	79310.850	2.0	83919.760	2.0
2169.1513	26.00	-1.18	49804.900	3.0	54413.740	3.0
2169.1561	18.01	-.72	199525.150	1.5	204133.980	2.5
2169.1702	6.00	-.13	79310.850	2.0	83919.650	3.0
2169.1937	6.00	-2.58	84016.250	4.0	88625.000	3.0
2169.2845	10.00	-3.71	167076.982	3.0	171685.539	3.0
2169.2887	10.00	-2.29	167076.991	4.0	171685.539	3.0
2169.3113	8.01	-4.31	251220.900	3.5	255829.400	3.5
2169.4017	10.00	-2.41	167076.982	3.0	171685.290	2.0
2169.4149	27.00	-3.48	48026.340	.5	52634.620	.5
2169.6259	8.00	-3.34	103869.968	2.0	108477.800	1.0
2169.6259	8.00	-2.16	103869.968	2.0	108477.800	2.0
2169.6259	8.00	-1.41	103869.968	2.0	108477.800	3.0
2169.6541	8.00	-2.16	103870.028	1.0	108477.800	1.0
2169.6541	8.00	-1.68	103870.028	1.0	108477.800	2.0
2169.7351	13.01	-1.44	139916.700	1.0	144524.300	1.0
2169.7417	22.00	-1.85	37538.804	2.0	42146.390	1.0
2169.7596	8.00	-2.03	103870.252	0.0	108477.800	1.0
2169.7916	24.00	-3.07	30965.460	3.0	35572.940	2.0
2169.8571	14.00	-.80	57328.789	1.0	61936.130	1.0
2170.1260	18.00	-1.12	119444.880	2.0	124051.650	2.0
2170.1590	8.01	-2.79	251220.900	3.5	255827.600	4.5
2170.1807	10.00	-4.49	167069.077	2.0	171675.731	3.0
2170.1920	28.01	-4.42	133169.920	3.5	137776.550	3.5
2170.1967	9.00	-2.14	129484.660	1.5	134091.280	1.5
2170.2250	18.00	-2.32	119444.880	2.0	124051.440	3.0
2170.2990	10.00	-4.37	167069.064	3.0	171675.467	4.0
2170.4181	6.00	-.88	84032.150	1.0	88638.300	2.0
2170.6623	7.00	-3.04	111501.368	1.5	116107.000	.5
2170.6623	7.00	-3.54	111501.368	1.5	116107.000	1.5
2170.7475	17.00	-4.33	94663.670	1.5	99269.121	2.5
2170.8145	10.00	-.31	158795.992	1.0	163401.301	0.0
2170.8187	8.01	-2.28	251224.100	2.5	255829.400	3.5
2170.8380	8.00	-2.94	102968.261	1.0	107573.520	0.0
2170.8399	8.00	-2.94	102968.261	1.0	107573.516	1.0
2170.8399	8.00	-2.64	102968.261	2.0	107573.516	1.0
2170.8442	8.00	-3.78	102968.261	1.0	107573.507	2.0
2170.8442	8.00	-2.78	102968.261	2.0	107573.507	2.0
2170.8442	8.00	-2.41	102968.261	3.0	107573.507	2.0
2170.8493	8.00	-3.78	102968.261	2.0	107573.496	3.0
2170.8493	8.00	-2.76	102968.261	3.0	107573.496	3.0
2170.8493	8.00	-2.21	102968.261	4.0	107573.496	3.0
2170.8531	8.00	-4.09	102968.261	3.0	107573.488	4.0
2170.8531	8.00	-2.91	102968.261	4.0	107573.488	4.0
2170.8531	8.00	-2.04	102968.261	5.0	107573.488	4.0
2170.8842	8.00	-4.93	102968.355	2.0	107573.516	1.0
2170.8885	8.00	-4.34	102968.355	3.0	107573.507	2.0
2170.8937	8.00	-4.70	102968.355	3.0	107573.496	3.0
2171.0889	14.00	-3.25	59037.043	4.0	63641.770	3.0
2171.1346	28.01	-3.54	132120.700	.5	136725.330	.5
2171.1440	7.00	-3.14	110498.390	3.5	115103.000	2.5
2171.1487	7.00	-4.68	110498.400	2.5	115103.000	2.5
2171.1912	25.00	-3.63	53101.320	.5	57705.830	.5
2171.2237	14.00	-1.71	59109.959	3.0	63714.400	2.0
2171.3279	15.00	-4.15	65787.380	3.5	70391.600	2.5
2171.3562	22.00	-4.20	42858.900	3.0	47463.060	4.0
2171.3892	29.01	-2.79	116080.460	3.0	120684.550	3.0
2171.4162	14.00	-.58	56700.250	1.0	61304.283	2.0
2171.4760	26.00	-3.89	47136.058	2.0	51739.964	2.0
2171.4788	13.01	-.86	144964.700	4.0	149568.600	3.0
2171.4788	13.01	-1.75	144964.700	4.0	149568.600	3.0
2171.4788	13.01	-2.58	144964.700	3.0	149568.600	3.0
2171.5071	10.01	-1.64	302816.980	1.5	307420.820	2.5
2171.6472	18.00	-2.75	118651.447	1.0	123254.990	1.0
2171.6638	14.00	-3.17	59110.892	2.0	63714.400	2.0
2171.7355	7.00	-2.34	111285.644	1.5	115889.000	.5
2171.7355	7.00	-3.63	111285.644	1.5	115889.000	1.5
2171.8185	28.01	-3.73	101258.010	1.5	105861.190	2.5
2171.8704	18.01	-.96	200393.020	4.5	204996.090	3.5
2171.9176	22.00	-4.80	43583.140	3.0	48186.110	4.0
2171.9506	15.00	-2.05	75705.400	3.5	80308.300	2.5
2171.9601	21.00	-1.14	29303.520	5.5	33906.400	4.5
2171.9775	10.00	-3.75	167069.077	2.0	171671.920	1.0
2172.0030	17.00	-2.48	96930.181	.5	101532.970	1.5
2172.0308	6.00	-3.31	84036.290	1.0	88639.020	1.0
2172.0592	7.00	-3.30	110385.330	2.5	114988.000	1.5
2172.0733	25.00	-3.22	53103.190	1.5	57705.830	.5
2172.0828	6.00	-4.31	84036.400	2.0	88639.020	1.0
2172.1300	18.01	-1.05	198594.920	3.5	203197.440	3.5
2172.2007	28.01	-3.44	131093.300	4.5	135695.670	4.5
2172.2951	18.01	-2.02	186340.480	1.5	190942.650	.5
2172.3282	25.00	-4.48	52883.870	2.5	57485.970	2.5
2172.4462	7.00	-4.38	110402.150	3.5	115004.000	2.5
2172.5831	10.01	-4.91	313180.230	1.5	317781.790	1.5
2172.6794	7.00	-3.66	111285.644	1.5	115887.000	.5
2172.6794	7.00	-2.67	111285.644	1.5	115887.000	1.5
2172.6794	7.00	-1.85	111285.644	1.5	115887.000	2.5
2172.7531	7.00	-4.46	110501.800	3.5	115103.000	2.5
2172.8570	6.00	-.85	79318.780	1.0	83919.760	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2173.0553	21.00	-1.72	11610.240	3.5	16210.800	3.5
2173.0789	6.00	-4.16	84036.290	1.0	88636.800	2.0
2173.1309	6.00	-3.31	84036.400	2.0	88636.800	2.0
2173.1829	6.00	-3.23	84851.530	1.0	89451.820	1.0
2173.1923	28.01	-4.70	131093.300	4.5	135693.570	4.5
2173.1923	28.01	-2.47	131093.300	4.5	135693.570	5.5
2173.2585	28.01	-4.12	131093.300	4.5	135693.430	3.5
2173.2774	9.00	-1.10	129484.660	1.5	134084.750	2.5
2173.2821	20.02	-1.46	336749.110	1.0	341349.190	1.0
2173.2963	18.00	-3.55	120188.340	1.0	124788.390	1.0
2173.4096	6.00	-3.95	81769.790	2.0	86369.600	2.0
2173.4475	18.00	-2.29	120188.660	2.0	124788.390	1.0
2173.4616	15.00	-1.47	75699.800	.5	80299.500	1.5
2173.5656	7.00	-4.43	110404.520	2.5	115004.000	2.5
2173.6129	28.01	-2.99	116786.420	.5	121385.800	1.5
2173.6649	19.00	-2.20	28999.270	.5	33598.540	.5
2173.9111	10.00	-3.18	167076.982	3.0	171675.731	3.0
2173.9154	10.00	-4.66	167076.991	4.0	171675.731	3.0
2173.9721	28.01	.18	131032.010	2.5	135630.630	2.5
2174.0360	10.00	-4.62	167076.982	3.0	171675.467	4.0
2174.0402	10.00	-3.08	167076.991	4.0	171675.467	4.0
2174.0713	6.00	-3.74	83497.620	2.0	88096.030	2.0
2174.1233	7.00	-3.50	110501.800	3.5	115100.100	2.5
2174.1281	27.00	-4.17	44480.140	2.5	49078.430	1.5
2174.2936	25.01	.46	109242.360	2.0	113840.300	3.0
2174.5537	28.01	.34	131032.010	2.5	135629.400	3.5
2174.6152	14.00	-1.41	58893.400	3.0	63490.660	3.0
2174.6483	28.01	-4.86	95893.760	1.5	100490.950	1.5
2174.7132	18.00	-3.59	118870.981	0.0	123468.034	1.0
2174.7836	17.00	-2.20	96945.536	2.5	101542.440	1.5
2174.9322	28.01	-4.64	131796.260	2.5	136392.850	3.5
2174.9700	18.00	-1.97	119760.220	1.0	124356.730	2.0
2174.9748	18.00	-3.49	119444.880	2.0	124041.380	2.0
2175.0457	25.01	.52	109243.950	3.0	113840.300	3.0
2175.0600	18.00	-2.38	119444.880	2.0	124041.200	1.0
2175.0931	25.01	.72	109243.950	3.0	113840.200	4.0
2175.1924	14.00	-2.71	58893.400	3.0	63489.440	2.0
2175.2729	6.00	-2.96	84851.530	1.0	89447.400	2.0
2175.4433	14.00	-.90	58893.400	3.0	63488.910	4.0
2175.6279	23.02	-4.87	155981.500	3.5	160576.620	3.5
2175.8695	14.00	-2.52	58893.400	3.0	63488.010	3.0
2175.9500	28.01	-2.41	100845.410	.5	105439.850	1.5
2175.9736	6.00	-1.86	83497.620	2.0	88092.010	1.0
2176.0636	10.01	-.42	302475.610	.5	307069.810	1.5
2176.0873	25.01	-.32	109246.150	4.0	113840.300	3.0
2176.0982	7.00	-1.77	111260.873	3.5	115855.000	2.5
2176.1020	12.00	-1.62	56308.381	2.0	60902.500	2.0
2176.1020	12.00	-1.69	56308.381	2.0	60902.500	3.0
2176.1020	12.00	-.56	56308.381	2.0	60902.500	3.0
2176.1347	25.01	.50	109246.150	4.0	113840.200	4.0
2176.1773	28.00	-2.45	44565.100	3.0	49159.060	2.0
2176.1820	25.01	.92	109246.150	4.0	113840.100	5.0
2176.3289	25.00	-4.02	58159.730	2.5	62753.370	2.5
2176.3715	6.00	-3.37	84013.250	3.0	88606.800	3.0
2176.4426	28.01	-2.37	122086.580	3.5	126679.980	4.5
2176.4426	6.00	-4.36	84013.400	2.0	88606.800	3.0
2176.4521	18.01	.34	198604.060	4.5	203197.440	3.5
2176.7578	22.00	-2.46	20795.599	5.0	25388.334	4.0
2176.7601	6.00	-4.09	81769.790	2.0	86362.520	1.0
2176.8312	28.01	-1.90	116732.510	2.5	121325.090	2.5
2177.1536	15.00	-.61	75104.600	.5	79696.500	1.5
2177.1536	38.01	-.09	68645.200	0.0	73238.353	0.0
2177.2389	20.00	.47	37751.867	2.0	42343.587	3.0
2177.2959	18.00	-2.07	119847.810	1.0	124439.410	0.0
2177.3053	28.01	-.52	131032.010	2.5	135623.590	1.5
2177.3053	10.01	-1.04	302307.750	2.5	306899.330	2.5
2177.3433	6.00	-3.64	84013.250	3.0	88604.750	2.0
2177.4002	27.00	-4.71	49197.740	4.5	53789.120	3.5
2177.4143	6.00	-3.58	84013.400	2.0	88604.750	2.0
2177.4419	18.00	-3.36	121932.908	1.0	126524.200	0.0
2177.4708	26.00	-4.98	47377.909	4.0	51969.140	3.0
2177.4855	25.01	-.72	109249.000	5.0	113840.200	4.0
2177.5329	25.01	.32	109249.000	5.0	113840.100	5.0
2177.5614	27.00	-3.00	49197.740	4.5	53788.780	4.5
2177.5804	25.01	1.09	109249.000	5.0	113840.000	6.0
2177.6610	19.00	-1.91	29007.710	1.5	33598.540	.5
2177.7274	28.01	-.94	101247.370	2.5	105838.060	3.5
2177.7625	20.00	-4.08	43933.477	1.0	48524.093	0.0
2177.7749	28.01	-.77	131032.010	2.5	135622.600	3.5
2177.7938	6.00	-3.10	84016.250	4.0	88606.800	3.0
2177.8365	24.00	-4.89	26787.500	3.0	31377.960	4.0
2177.9362	28.01	-3.34	131103.180	2.5	135693.430	3.5
2177.9362	28.01	-2.99	131103.180	2.5	135693.430	2.5
2177.9599	6.00	-2.69	84935.340	1.0	89525.540	1.0
2177.9661	14.00	.55	54185.264	1.0	58775.451	2.0
2177.9884	26.00	-4.43	29356.780	2.0	33946.920	2.0
2178.0453	23.00	-3.69	34537.210	1.5	39127.230	1.5
2178.0809	26.00	-5.00	45833.240	4.0	50423.185	4.0
2178.2328	28.00	-1.97	50142.800	3.0	54732.425	2.0
2178.2684	27.00	-4.03	48753.720	1.5	53343.270	1.5
2178.2684	22.00	-1.24	14105.680	3.0	18695.230	4.0
2178.2826	9.00	-2.99	129381.860	2.5	133971.380	1.5
2178.5057	25.00	-3.12	57485.970	2.5	62075.020	2.5
2178.5294	8.01	-4.63	251224.100	2.5	255813.100	2.5
2178.7383	18.01	-1.78	199525.150	1.5	204113.710	1.5
2178.8713	26.00	-4.44	49242.680	2.0	53830.960	3.0
2178.9567	8.01	-4.72	251224.100	2.5	255812.200	1.5
2178.9625	26.00	-4.87	49242.872	3.0	53830.960	3.0
2179.0517	28.01	-.25	131032.010	2.5	135619.910	1.5
2179.2541	17.00	-1.20	96945.536	2.5	101533.010	2.5
2179.2731	17.00	-4.49	96945.536	2.5	101532.970	1.5
2179.3843	30.02	-.75	260418.100	2.0	265005.300	2.0
2179.3890	14.02	.25	240284.280	2.0	244871.470	1.0
2179.4888	28.01	-4.12	130751.030	5.5	135338.010	5.5
2179.4907	26.00	-2.68	47017.170	3.0	51604.146	3.0
2179.6076	26.02	-4.38	219471.970	4.0	224058.700	4.0
2179.7678	17.00	-3.38	90948.530	1.5	95534.923	.5
2179.9213	28.01	-.14	131032.010	2.5	135618.080	2.5
2180.0881	14.00	-2.48	57295.881	0.0	61881.600	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2180.5394	20.02	-3.60	385867.200	3.0	390451.970	3.0
2180.7820	28.01	-3.72	109038.840	1.5	113623.100	.5
2180.8724	23.00	-1.77	37075.640	4.5	41659.710	5.5
2180.9437	6.00	-1.73	85188.950	1.0	89772.870	2.0
2180.9913	9.00	-1.68	129381.860	2.5	133965.680	2.5
2181.1293	7.00	-3.39	110404.470	1.5	114988.000	.5
2181.1293	7.00	-3.81	110404.470	1.5	114988.000	1.5
2181.1531	7.00	-3.96	110404.520	2.5	114988.000	1.5
2181.1769	9.00	-.90	125637.690	2.5	130221.120	1.5
2181.1892	7.00	-3.33	111271.596	.5	115855.000	.5
2181.1892	7.00	-2.24	111271.596	.5	115855.000	1.5
2181.1912	21.00	-2.94	11557.640	2.5	16141.040	2.5
2181.2626	6.00	-4.67	84013.250	3.0	88596.500	4.0
2181.3672	22.01	-4.47	24961.340	1.5	29544.370	2.5
2181.3749	26.00	-2.48	47171.520	0.0	51754.534	1.0
2181.4853	22.00	-3.98	38451.298	2.0	43034.080	1.0
2181.4958	25.00	-3.62	56356.210	3.5	60938.970	4.5
2181.6386	23.00	-2.34	19026.340	2.5	23608.800	1.5
2181.7290	29.01	-1.52	118163.500	2.0	122745.770	2.0
2181.7338	28.01	-1.92	116468.400	1.5	121050.660	2.5
2181.8814	7.00	-4.42	110521.050	1.5	115103.000	2.5
2181.9185	14.00	-3.54	58774.368	3.0	63356.240	2.0
2181.9671	14.00	.26	54205.090	2.0	58786.860	3.0
2182.0624	6.00	-3.66	83752.410	1.0	88333.980	0.0
2182.0719	27.00	-3.68	48334.370	1.5	52915.920	.5
2182.0767	10.01	-.60	302839.280	2.5	307420.820	2.5
2182.3815	24.00	-2.53	50628.110	3.0	55209.010	4.0
2182.4344	14.00	-3.30	58775.451	2.0	63356.240	2.0
2182.5054	6.00	-2.33	84015.860	5.0	88596.500	4.0
2182.6245	28.01	-4.66	131115.280	4.5	135695.670	4.5
2182.6912	6.00	-4.01	84016.250	4.0	88596.500	4.0
2182.8343	6.00	-2.31	84851.530	1.0	89431.480	2.0
2182.8771	20.01	-1.75	86781.140	4.5	91361.000	4.5
2182.8771	20.01	-.02	86781.140	4.5	91361.000	5.5
2182.8771	20.01	-.11	86781.140	3.5	91361.000	4.5
2182.8961	14.00	-1.50	59190.460	1.0	63770.280	1.0
2182.9724	26.02	-4.71	219471.970	4.0	224051.630	3.0
2183.0201	27.00	-4.49	49847.080	2.5	54426.640	1.5
2183.0468	17.00	-1.05	91127.030	2.5	95706.534	1.5
2183.0926	17.00	-4.05	91906.790	2.5	96486.198	1.5
2183.1836	26.00	-4.18	48702.518	4.0	53281.735	5.0
2183.1879	14.00	-1.42	59191.072	2.0	63770.280	1.0
2183.2632	7.00	-3.07	110521.050	1.5	115100.100	2.5
2183.3014	6.00	-3.80	83919.650	3.0	88498.620	2.0
2183.3538	6.00	-3.78	83919.760	2.0	88498.620	2.0
2183.4072	14.00	-1.81	57798.072	2.0	62376.820	3.0
2183.4397	23.00	-4.55	33527.640	2.5	38106.320	2.5
2183.4568	17.00	-1.63	96945.536	2.5	101524.180	3.5
2183.5461	17.00	-3.07	96594.096	.5	101172.553	1.5
2183.6257	28.01	-4.03	131115.280	4.5	135693.570	4.5
2183.6257	28.01	-4.85	131115.280	4.5	135693.570	5.5
2183.6734	28.01	-3.98	115565.980	2.5	120144.170	2.5
2183.7955	14.00	-1.25	57017.496	2.0	61595.430	1.0
2184.0025	15.00	-3.16	77655.200	3.5	82232.700	2.5
2184.0865	26.00	-2.65	47177.210	1.0	51754.534	1.0
2184.1000	2.00	-.72	191493.000	0.0	196071.545	0.0
2184.1934	22.00	-3.72	41255.400	4.0	45832.500	5.0
2184.3079	21.00	-2.28	33278.640	3.5	37855.500	2.5
2184.3222	24.00	-4.95	26787.500	3.0	31364.330	3.0
2184.3795	21.00	-3.11	11520.150	1.5	16096.860	1.5
2184.3938	24.00	-4.79	50628.110	3.0	55204.790	3.0
2184.5757	22.00	-2.29	31489.451	4.0	36065.750	3.0
2184.6115	17.00	-.80	96945.536	2.5	101521.760	3.5
2184.6712	17.00	-2.71	91906.790	2.5	96482.889	2.5
2184.6851	12.01	-1.63	112301.470	3.5	116877.540	3.5
2184.6851	12.01	-.09	112301.470	3.5	116877.540	4.5
2184.6851	12.01	-.20	112301.470	2.5	116877.540	3.5
2184.9190	7.01	-2.32	205350.180	2.0	209925.760	2.0
2184.9667	18.01	-1.61	196305.040	3.5	200880.520	3.5
2185.0717	6.00	-3.35	85203.640	2.0	89778.900	3.0
2185.0994	7.00	-2.57	111326.798	2.5	115902.000	2.5
2185.1195	23.02	-3.46	155569.100	2.5	160144.260	1.5
2185.1530	6.00	-2.28	84935.340	1.0	89510.430	2.0
2185.1673	26.00	-3.63	29371.860	3.0	33946.920	2.0
2185.3058	14.01	-1.30	118523.120	1.5	123097.890	.5
2185.5925	28.01	-1.42	116468.400	1.5	121042.570	1.5
2185.6164	28.01	-3.49	116468.400	1.5	121042.520	1.5
2185.7884	23.00	-1.24	37025.600	3.5	41599.360	4.5
2185.8759	26.00	-4.40	47197.000	2.0	51770.577	3.0
2185.9423	26.00	-3.67	46720.824	4.0	51294.262	3.0
2185.9652	28.01	-4.80	131122.280	5.5	135695.670	4.5
2185.9667	17.00	-.45	95597.593	.5	100170.980	1.5
2186.2281	19.00	-3.77	28999.270	.5	33572.110	1.5
2186.2951	28.01	-4.18	94396.740	5.5	98969.440	5.5
2186.3190	28.01	-4.41	118248.980	5.5	122821.630	5.5
2186.3520	26.00	-3.00	46889.126	4.0	51461.707	4.0
2186.4290	6.00	-2.68	83926.200	3.0	88498.620	2.0
2186.4997	22.00	-.97	31628.668	5.0	36200.940	5.0
2186.5246	25.00	-3.86	49888.080	3.5	54460.300	2.5
2186.6107	6.00	-3.27	84950.360	2.0	89522.400	2.0
2186.8355	7.00	-4.15	110485.930	1.5	115057.500	1.5
2186.8738	6.00	-1.43	85399.810	2.0	89971.300	3.0
2186.8738	7.00	-3.82	110486.010	2.5	115057.500	1.5
2186.9455	18.00	-4.14	119566.110	3.0	124137.450	2.0
2186.9694	28.01	-4.21	131122.280	5.5	135693.570	5.5
2186.9694	28.01	-4.03	131122.280	5.5	135693.570	4.5
2187.0221	18.00	-3.17	119566.110	3.0	124137.290	3.0
2187.2470	28.01	-3.81	131124.960	3.5	135695.670	4.5
2187.2738	26.00	-3.68	46410.366	1.0	50981.020	0.0
2187.3934	7.00	-3.13	111271.596	.5	115842.000	.5
2187.3934	7.00	-3.23	111271.596	.5	115842.000	1.5
2187.3953	6.00	-4.52	84036.400	2.0	88606.800	3.0
2187.4140	14.00	-.52	54205.090	2.0	58775.451	2.0
2187.4432	27.00	-2.12	46375.170	1.5	50945.470	.5
2187.4671	12.01	-1.70	112307.790	4.5	116878.040	4.5
2187.4671	12.01	.04	112307.790	4.5	116878.040	5.5
2187.4671	12.01	-.05	112307.790	3.5	116878.040	4.5
2187.7639	18.00	-2.79	119566.110	3.0	124135.740	3.0
2187.7639	18.00	-1.79	119566.110	3.0	124135.740	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2187.7974	6.00	-1.46	85203.640	2.0	89773.200	3.0
2187.8836	14.00	-3.22	58786.860	3.0	63356.240	2.0
2187.8951	7.00	-2.64	111285.644	1.5	115855.000	.5
2187.8951	7.00	-2.73	111285.644	1.5	115855.000	1.5
2187.8951	7.00	-2.43	111285.644	1.5	115855.000	2.5
2187.9301	18.00	-2.69	118651.447	1.0	123220.730	2.0
2187.9325	14.00	.52	54205.090	2.0	58774.368	3.0
2187.9411	18.01	-2.91	158730.210	2.5	163299.470	2.5
2187.9555	6.00	-2.24	85203.640	2.0	89772.870	2.0
2187.9852	14.00	-3.33	59191.072	2.0	63760.240	3.0
2188.0684	26.00	-2.59	47136.058	2.0	51705.052	2.0
2188.1182	28.00	-1.98	49185.146	2.0	53754.036	2.0
2188.1661	23.00	-4.62	21603.170	4.5	26171.960	4.5
2188.1757	6.00	-2.37	84950.360	2.0	89519.130	3.0
2188.3051	19.02	-2.42	241443.500	2.5	246012.000	1.5
2188.3146	12.01	-3.70	112309.060	4.5	116877.540	4.5
2188.3146	12.01	-1.96	112309.060	5.5	116877.540	4.5
2188.3146	12.01	-2.05	112309.060	4.5	116877.540	3.5
2188.3194	28.01	-4.02	131124.960	3.5	135693.430	3.5
2188.3242	6.00	-4.79	84036.290	1.0	88604.750	2.0
2188.3768	6.00	-4.73	84036.400	2.0	88604.750	2.0
2188.5158	27.00	-4.14	42796.670	1.5	47364.730	1.5
2188.5206	24.00	-4.65	26796.280	2.0	31364.330	3.0
2188.8033	12.01	-3.16	112307.790	3.5	116875.250	3.5
2188.8033	12.01	-1.62	112307.790	4.5	116875.250	3.5
2188.8033	12.01	-1.73	112307.790	3.5	116875.250	2.5
2188.9246	26.00	-3.08	46727.055	2.0	51294.262	3.0
2189.0286	6.00	-3.52	85399.810	2.0	89966.800	3.0
2189.0957	6.00	-4.08	85399.810	2.0	89966.660	2.0
2189.1235	22.00	-3.52	37617.868	4.0	42184.660	4.0
2189.2433	26.00	-3.34	46313.610	2.0	50880.152	1.0
2189.3306	24.00	-4.46	50105.540	1.0	54671.900	1.0
2189.3440	14.00	-3.23	58774.368	3.0	63340.700	3.0
2189.4456	26.00	-.64	49558.500	4.0	54124.620	4.0
2189.5895	26.00	-2.87	50045.900	2.0	54611.720	2.0
2189.7334	22.00	-1.53	14028.470	2.0	18593.990	3.0
2189.7574	28.01	-4.59	106007.890	2.5	110573.360	2.5
2189.8633	14.00	-4.30	58775.451	2.0	63340.700	3.0
2189.9061	28.01	-3.22	113407.310	2.5	117972.470	3.5
2189.9780	18.01	-3.19	196315.510	2.5	200880.520	3.5
2190.2083	26.02	-4.53	200437.940	2.0	205002.470	3.0
2190.2707	72.00	-3.16	38159.710	3.0	42724.110	2.0
2190.2707	19.00	-4.34	29007.710	1.5	33572.110	1.5
2190.2759	17.00	-.78	90749.360	2.5	95313.749	1.5
2190.2899	28.01	-2.40	131122.280	5.5	135686.640	6.5
2190.2947	19.00	-3.38	29007.710	1.5	33572.060	2.5
2190.3187	15.01	-.28	127600.000	1.0	132164.300	2.0
2190.6018	75.00	-2.45	47154.510	1.5	51718.220	1.5
2190.6258	6.00	-3.30	83497.620	2.0	88061.280	1.0
2190.6978	18.01	-.33	203918.150	1.5	208481.660	.5
2190.8577	22.00	-4.48	41341.553	5.0	45904.730	6.0
2191.0608	26.00	-3.52	47177.210	1.0	51739.964	2.0
2191.0819	9.02	-.12	453152.390	2.5	457715.100	2.5
2191.3259	7.00	-4.62	111326.798	2.5	115889.000	1.5
2191.3787	14.00	-1.98	59056.508	1.0	63618.600	0.0
2191.3812	22.00	-3.51	37622.573	3.0	42184.660	4.0
2191.4998	6.00	-2.22	81769.790	2.0	86331.630	1.0
2191.5623	18.01	-2.13	186171.260	.5	190732.970	.5
2191.6507	26.00	-3.55	46137.140	3.0	50698.666	2.0
2191.7155	7.00	-1.27	111905.609	2.5	116467.000	1.5
2191.7689	22.00	-4.43	38670.710	4.0	43231.990	4.0
2192.0092	14.01	.43	113962.340	.5	118523.120	1.5
2192.0304	17.00	-3.96	94973.683	.5	99534.419	.5
2192.1245	6.00	-2.18	84950.360	2.0	89510.900	3.0
2192.2399	13.01	-.27	144638.900	2.0	149199.200	3.0
2192.2399	13.01	-1.18	144638.900	3.0	149199.200	3.0
2192.2870	7.00	-3.18	111326.798	2.5	115887.000	1.5
2192.2870	7.00	-4.08	111326.798	2.5	115887.000	2.5
2192.2870	7.00	-1.53	111326.798	2.5	115887.000	3.5
2192.3505	6.00	-2.58	84950.360	2.0	89510.430	2.0
2192.4177	14.00	-3.53	59190.460	1.0	63750.390	1.0
2192.4562	28.01	-4.04	131133.580	2.5	135693.430	3.5
2192.4562	28.01	-4.58	131133.580	2.5	135693.430	2.5
2192.4831	14.00	-1.54	56978.256	1.0	61538.050	0.0
2192.7121	14.00	-2.52	59191.072	2.0	63750.390	1.0
2192.7183	22.00	-2.60	29768.655	2.0	34327.960	1.0
2192.8746	26.02	-2.97	200384.280	3.0	204943.260	2.0
2192.8987	18.01	-.56	210438.500	4.5	214997.430	4.5
2193.0190	6.00	-4.01	83986.220	3.0	88544.900	3.0
2193.0464	17.00	-2.31	95612.357	1.5	100170.980	1.5
2193.1296	6.00	-3.16	83986.450	4.0	88544.900	3.0
2193.1921	18.00	-2.09	120230.070	2.0	124788.390	1.0
2193.2017	18.01	-1.95	210438.500	4.5	214996.800	3.5
2193.2739	27.00	-3.56	48217.320	3.5	52775.470	4.5
2193.2739	7.00	-3.12	110544.850	2.5	115103.000	2.5
2193.3124	18.01	-1.25	200393.020	4.5	204951.090	3.5
2193.3461	26.01	-1.81	82978.900	4.5	87536.900	3.5
2193.4712	22.00	-4.97	42092.520	4.0	46650.260	3.0
2193.4905	30.02	-.59	257962.500	2.0	262520.200	2.0
2193.5704	26.00	-4.46	47197.000	2.0	51754.534	1.0
2193.6493	6.00	-3.37	81769.790	2.0	86327.160	3.0
2193.6743	14.00	-2.98	57017.496	2.0	61574.814	3.0
2193.7119	7.00	-4.02	110459.760	.5	115017.000	.5
2193.7793	30.02	-1.08	257678.700	2.0	262235.800	3.0
2193.7817	7.00	-3.10	111060.905	.5	115618.000	1.5
2193.8024	28.00	-1.10	50142.800	3.0	54699.852	3.0
2193.8467	28.01	-2.65	123434.600	4.5	127991.560	3.5
2194.1375	7.00	-2.43	111285.644	1.5	115842.000	.5
2194.1375	7.00	-3.73	111285.644	1.5	115842.000	1.5
2194.1645	27.00	-4.07	50712.450	2.5	55268.750	3.5
2194.1741	18.01	.22	198594.920	3.5	203151.200	2.5
2194.2752	19.00	-1.42	27397.100	2.5	31953.170	2.5
2194.2752	19.00	-.12	27397.100	2.5	31953.170	3.5
2194.3089	15.00	-.81	75905.100	2.5	80461.100	3.5
2194.5594	24.00	-2.38	37883.340	2.0	42438.820	2.0
2194.6702	7.00	-4.63	110544.850	2.5	115100.100	2.5
2194.6895	18.01	-1.46	206103.450	1.5	210658.660	2.5
2194.7039	6.00	-3.68	83986.220	3.0	88541.400	2.0
2194.7425	18.01	-2.17	206103.450	1.5	210658.550	1.5
2194.7762	19.00	-.28	27398.140	1.5	31953.170	2.5
2194.7998	28.00	-1.86	44262.619	2.0	48817.600	1.0
2195.2389	24.00	-3.76	50264.480	3.0	54818.550	2.0
2195.6487	18.01	-3.64	209338.210	3.5	213891.430	2.5
2195.7886	25.00	-2.74	52015.000	1.5	56567.930	1.5
2195.8459	14.00	-2.67	57328.789	1.0	61881.600	1.0
2195.8561	23.01	-2.71	44657.990	2.0	49210.780	3.0
2196.0809	20.00	-1.60	38192.392	1.0	42744.716	2.0
2196.2183	22.00	-4.68	37555.021	3.0	42107.060	4.0
2196.2975	22.00	-2.61	41170.003	3.0	45721.878	4.0
2196.3057	14.00	-1.45	57798.072	2.0	62349.930	2.0
2196.3240	14.00	-2.71	58788.880	4.0	63340.700	3.0
2196.4784	18.00	-2.79	119760.220	1.0	124311.720	1.0
2196.4881	23.02	-3.48	156130.000	4.5	160681.480	3.5
2196.8645	13.01	-1.48	140091.200	1.0	144641.900	0.0
2196.8742	8.01	-2.84	206971.300	2.5	211521.980	1.5
2196.9080	20.00	-1.17	38192.392	1.0	42743.002	1.0
2196.9997	18.01	-.01	210447.010	3.5	214997.430	4.5
2197.0094	8.03	-1.67	591962.000	2.5	596512.400	1.5
2197.1074	26.00	-4.44	44676.963	4.0	49227.160	3.0
2197.1881	24.00	-4.91	50654.760	2.0	55204.790	3.0
2197.2011	26.00	-4.85	44378.420	1.0	48928.423	2.0
2197.2025	17.01	-2.83	146469.000	3.0	151019.000	2.0
2197.2266	9.00	-3.73	129381.860	2.5	133931.810	2.5
2197.2315	27.00	-4.73	46375.170	1.5	50925.110	1.5
2197.3039	18.01	-.73	210447.010	3.5	214996.800	3.5
2197.3523	29.01	-.49	116326.160	3.0	120875.850	2.0
2197.3571	8.01	-1.91	206972.300	1.5	211521.980	1.5
2197.5469	26.00	-4.20	46744.975	3.0	51294.262	3.0
2197.7556	22.00	-2.87	29986.185	3.0	34535.040	2.0
2197.8112	28.01	-2.91	132729.480	2.5	137278.220	1.5
2198.0528	26.00	-4.98	46313.610	2.0	50861.850	3.0
2198.0721	15.00	-1.66	76045.900	2.5	80594.100	1.5
2198.2413	6.00	-2.60	81769.790	2.0	86317.640	2.0
2198.3137	13.01	-.94	140091.200	1.0	144638.900	1.0
2198.3137	13.01	-2.03	140091.200	2.0	144638.900	1.0
2198.3137	13.01	-.46	140091.200	1.0	144638.900	2.0
2198.3137	13.01	-.85	140091.200	2.0	144638.900	2.0
2198.3137	13.01	-.10	140091.200	2.0	144638.900	3.0
2198.3137	13.01	-.73	140091.200	0.0	144638.900	1.0
2198.4056	25.00	-3.63	52758.110	4.5	57305.620	3.5
2198.4250	28.01	-1.52	116838.330	1.5	121385.800	1.5
2198.5362	27.00	-4.10	48317.170	3.5	52864.410	4.5
2198.6749	22.00	-1.87	37659.927	3.0	42206.880	2.0
2198.9617	27.00	-3.96	48217.320	3.5	52763.680	3.5
2199.0342	14.01	.68	113976.980	1.5	118523.190	2.5
2199.0681	14.01	-.27	113976.980	1.5	118523.120	1.5
2199.3903	26.00	-3.55	43210.011	2.0	47755.485	3.0
2199.5229	6.00	-3.76	84013.400	2.0	88558.600	1.0
2199.5858	20.02	-2.29	385906.900	2.0	390451.970	3.0
2199.6197	8.03	-1.67	591899.000	1.5	596444.000	2.5
2199.7262	18.01	.26	200393.020	4.5	204937.800	4.5
2199.8036	22.00	-2.38	41985.830	3.0	46530.450	4.0
2200.2636	23.01	-4.44	44657.990	2.0	49201.660	2.0
2200.2975	16.00	-.39	75951.060	1.0	80494.660	2.0
2200.4249	17.00	-2.44	91069.020	.5	95612.357	1.5
2200.4331	22.00	-1.96	13981.750	1.0	18525.070	2.0
2200.5386	17.00	-.17	95706.534	1.5	100249.636	2.5
2200.5444	16.00	-1.12	75951.570	2.0	80494.660	2.0
2200.5444	16.00	-.22	75951.570	2.0	80494.660	3.0
2200.6413	28.01	-3.66	101740.270	3.5	106283.160	2.5
2200.7334	6.00	-1.14	84032.150	1.0	88574.850	2.0
2200.9611	6.00	-2.38	84103.100	2.0	88645.330	1.0
2200.9611	6.00	-1.45	84103.100	2.0	88645.330	2.0
2201.0386	18.01	-.70	186470.280	1.5	191012.350	1.5
2201.0919	28.01	-3.62	115739.150	4.5	120281.110	4.5
2201.1404	26.00	-4.75	49227.160	3.0	53769.020	4.0
2201.3270	26.00	-4.95	47755.485	3.0	52296.960	2.0
2201.3585	22.01	-4.70	25193.040	2.5	29734.450	3.5
2201.3924	28.01	-4.68	132225.150	1.5	136766.490	2.5
2201.4555	9.00	-1.90	129381.860	2.5	133923.070	3.5
2201.4942	28.01	-3.10	113753.040	4.5	118294.170	3.5
2201.5607	22.00	-4.83	17540.205	3.0	22081.198	2.0
2201.7803	23.00	-3.25	37940.080	.5	42480.620	.5
2201.7997	28.01	-3.44	96052.480	2.5	100592.980	3.5
2201.8094	18.01	-1.56	210438.500	4.5	214978.980	4.5
2201.8676	18.01	-.44	210438.500	4.5	214978.860	5.5
2201.8865	17.00	-2.79	95706.534	1.5	100246.855	1.5
2201.9840	18.01	-.96	201608.820	3.5	206148.940	3.5
2202.1411	26.00	-4.82	49726.964	4.0	54266.760	5.0
2202.2799	27.00	-3.18	48317.170	3.5	52856.680	3.5
2202.4206	21.00	-3.56	11557.640	2.5	16096.860	1.5
2202.4643	26.02	-2.51	200656.020	6.0	205195.150	5.0
2202.5468	16.00	-1.12	75955.700	3.0	80494.660	3.0
2202.5468	16.00	-.06	75955.700	3.0	80494.660	4.0
2202.5468	16.00	-2.67	75955.700	3.0	80494.660	2.0
2202.6001	28.01	-1.40	113225.060	.5	117763.910	1.5
2202.6132	28.00	-2.75	42790.027	2.0	47328.850	2.0
2202.6924	17.00	-.09	90193.640	4.5	94732.300	3.5
2202.7554	29.01	-2.61	134359.900	1.0	138898.430	1.0
2202.7700	8.01	-4.00	251220.900	3.5	255759.400	3.5
2202.8185	15.00	-3.34	76762.400	.5	81300.800	1.5
2202.8384	17.00	-1.28	97004.081	1.5	101542.440	1.5
2202.8622	18.01	-2.58	206120.350	2.5	210658.660	2.5
2202.9156	18.01	-3.10	206120.350	2.5	210658.550	1.5
2203.1923	9.00	-1.93	129381.860	2.5	133919.490	1.5
2203.2894	6.00	-3.05	84984.970	3.0	89522.400	2.0
2203.4983	25.00	-3.15	41403.930	2.5	45940.930	2.5
2203.5852	17.00	-3.35	94732.300	3.5	99269.121	2.5
2203.5954	10.01	-1.18	303237.910	1.5	307774.710	1.5
2203.6537	28.01	-4.78	130801.330	4.5	135338.010	5.5
2203.6780	10.01	-.15	304440.240	.5	308976.870	.5
2203.7217	22.00	-3.69	38544.380	3.0	43080.920	2.0
2203.7655	7.00	-3.32	110521.050	1.5	115057.500	1.5
2203.7897	15.01	.21	125129.700	3.0	129666.100	2.0
2203.8140	27.00	-4.29	42988.120	3.5	47524.470	4.5
2203.9281	18.00	-2.18	107131.755	1.0	111667.870	0.0
2203.9379	7.00	-1.83	111060.905	.5	115597.000	1.5
2203.9549	18.01	-2.08	210438.500	4.5	214974.560	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2204.0812	24.00	-3.35	30965.460	3.0	35501.260	3.0
2204.1299	18.01	-4.19	209337.870	4.5	213873.570	3.5
2204.2464	26.00	-3.48	50039.180	2.0	54574.640	1.0
2204.2950	18.01	-2.65	209338.210	3.5	213873.570	3.5
2204.3242	8.01	-2.63	251224.100	2.5	255759.400	3.5
2204.3728	6.00	-1.83	84103.100	2.0	88638.300	2.0
2204.3728	6.00	-.75	84103.100	2.0	88638.300	3.0
2204.6839	18.01	.46	201720.670	1.5	206255.230	2.5
2204.6937	23.01	-4.09	32420.040	0.0	36954.580	1.0
2204.7277	11.00	-2.03	35040.380	.5	39574.850	.5
2204.8785	6.00	-2.66	84984.970	3.0	89519.130	3.0
2204.8891	26.00	-3.68	45509.112	1.0	50043.250	1.0
2204.8978	8.01	-4.81	248514.230	1.5	253048.350	2.5
2205.1926	14.00	-1.66	56978.256	1.0	61511.770	1.0
2205.2043	21.00	-.70	11677.310	4.5	16210.800	3.5
2205.2344	28.00	-2.26	42605.964	3.0	47139.392	2.0
2205.2578	28.01	-4.64	115739.150	4.5	120272.530	4.5
2205.3453	18.00	-4.45	119847.810	1.0	124381.010	2.0
2205.4310	17.00	-1.65	91173.510	1.5	95706.534	1.5
2205.5643	23.00	-2.71	32456.450	1.5	36989.200	2.5
2205.6227	29.01	-.63	118484.000	3.0	123016.630	3.0
2205.6426	11.00	.29	25739.991	.5	30272.580	1.5
2205.8855	18.01	-.31	210464.710	2.5	214996.800	3.5
2205.9293	11.00	-1.73	35042.850	1.5	39574.850	.5
2205.9439	18.01	-.90	210447.010	3.5	214978.980	4.5
2206.0213	14.00	-3.05	59109.959	3.0	63641.770	3.0
2206.0997	6.00	-4.40	84013.250	3.0	88544.900	3.0
2206.2165	29.01	-.68	116388.000	2.0	120919.410	1.0
2206.2711	14.00	.67	54257.582	3.0	58788.880	4.0
2206.2749	28.01	-3.38	115739.150	4.5	120270.440	5.5
2206.3820	7.00	-4.09	110485.930	1.5	115017.000	.5
2206.3820	14.00	-2.73	59190.460	1.0	63721.530	2.0
2206.3869	27.00	-2.47	52014.450	1.5	56545.510	2.5
2206.4746	6.00	-3.98	84103.100	2.0	88633.980	3.0
2206.4755	14.00	-4.72	59110.892	2.0	63641.770	3.0
2206.5136	21.00	-2.81	11610.240	3.5	16141.040	2.5
2206.5184	7.00	-4.75	110473.210	4.5	115004.000	3.5
2206.6802	14.00	-1.94	59191.072	2.0	63721.530	2.0
2206.6889	27.00	-1.94	27497.060	2.5	32027.500	3.5
2206.7814	10.01	-.44	302890.570	2.5	307420.820	2.5
2206.9130	28.00	-2.51	51343.800	2.0	55873.780	2.0
2206.9227	24.00	-3.68	48507.560	1.0	53037.520	2.0
2207.0689	28.01	-4.94	115739.150	4.5	120268.810	3.5
2207.2550	14.00	-.80	54257.582	3.0	58786.860	3.0
2207.2735	6.00	-1.48	84116.090	1.0	88645.330	1.0
2207.2735	6.00	-.73	84116.090	1.0	88645.330	2.0
2207.4251	17.00	-.88	97004.081	1.5	101533.010	2.5
2207.4447	17.00	-3.50	97004.081	1.5	101532.970	1.5
2207.4734	26.00	-3.60	49850.610	3.0	54379.440	3.0
2207.5562	27.00	-3.76	46671.940	2.5	51200.600	1.5
2207.5562	18.01	-2.73	194996.490	1.5	199525.150	1.5
2207.5611	6.00	-3.63	84016.250	4.0	88544.900	3.0
2207.6001	18.00	-2.12	119847.810	1.0	124376.380	1.0
2207.6976	14.01	-2.87	122835.390	3.5	127363.760	3.5
2207.6976	14.01	-1.33	122835.390	4.5	127363.760	3.5
2207.6976	14.01	-1.44	122835.390	3.5	127363.760	2.5
2207.7108	18.00	-1.57	107289.747	2.0	111818.090	1.0
2207.7469	20.00	-1.56	38219.118	2.0	42747.387	3.0
2207.7610	29.01	-3.05	114511.440	1.0	119039.680	2.0
2207.7610	7.00	-4.53	110459.760	1.5	114988.000	.5
2207.7610	7.00	-4.96	110459.760	1.5	114988.000	1.5
2207.7795	7.00	-2.21	111326.798	2.5	115855.000	1.5
2207.7795	7.00	-2.07	111326.798	2.5	115855.000	2.5
2207.8049	6.00	-3.74	84013.250	3.0	88541.400	2.0
2207.8780	6.00	-4.50	84013.400	2.0	88541.400	2.0
2207.9550	26.00	-2.28	47177.210	1.0	51705.052	2.0
2208.0536	27.00	-3.79	46671.940	2.5	51199.580	3.5
2208.0975	18.01	-.90	210447.010	3.5	214974.560	3.5
2208.1121	17.00	-1.52	94827.150	2.5	99354.670	1.5
2208.1267	18.01	-1.89	210447.010	3.5	214974.500	2.5
2208.1413	27.00	-4.49	49197.740	4.5	53725.200	4.5
2208.2681	15.00	-3.40	76021.600	1.5	80548.800	2.5
2208.2779	23.00	-3.11	32456.450	1.5	36983.630	1.5
2208.3657	15.00	-1.82	76875.400	1.5	81402.400	2.5
2208.3662	11.00	-.02	25739.991	.5	30266.990	.5
2208.4340	27.00	-3.43	48443.760	2.5	52970.620	2.5
2208.5413	23.02	-4.61	155853.000	2.5	160379.640	2.5
2208.5609	18.01	-3.07	206103.450	1.5	210630.050	2.5
2208.6096	18.00	-3.62	120188.660	2.0	124715.160	3.0
2208.7365	18.01	-4.70	154703.970	3.5	158730.210	2.5
2208.7814	26.00	-3.55	49242.872	3.0	53769.020	4.0
2208.8878	6.00	-1.96	84984.970	3.0	89510.900	3.0
2209.0498	20.00	-.99	38219.118	2.0	42744.716	2.0
2209.1172	6.00	-3.42	84984.970	3.0	89510.430	2.0
2209.1367	20.02	-2.80	385867.200	3.0	390392.620	3.0
2209.1660	23.00	-.96	20202.490	2.5	24727.850	2.5
2209.2232	14.00	-3.21	56780.427	1.0	61305.670	1.0
2209.2793	28.00	-2.47	50142.800	3.0	54667.928	4.0
2209.4101	27.00	-4.65	50925.110	1.5	55449.970	2.5
2209.7569	28.01	-1.57	101144.630	3.5	105668.780	2.5
2209.7764	6.00	-1.15	84121.220	0.0	88645.330	1.0
2209.8595	14.00	-4.05	59190.460	1.0	63714.400	2.0
2209.8868	20.00	-1.62	38219.118	2.0	42743.002	1.0
2209.9083	18.01	.75	201608.820	3.5	206132.660	4.5
2209.9669	23.00	-3.69	37075.640	4.5	41599.360	4.5
2210.1135	24.00	-4.00	48488.230	0.0	53011.650	1.0
2210.1584	14.00	-2.95	59191.072	2.0	63714.400	2.0
2210.2650	28.01	-4.92	131223.020	2.5	135746.130	1.5
2210.2992	18.01	-3.55	200406.360	.5	204929.400	.5
2210.4556	27.00	-1.90	44555.710	1.5	49078.430	1.5
2210.4849	15.00	-2.90	67971.140	.5	72493.800	1.5
2210.4946	18.01	-3.53	209337.870	4.5	213860.510	3.5
2210.5484	18.01	-2.55	209337.870	4.5	213860.400	4.5
2210.7049	6.00	-3.40	84116.090	1.0	88638.300	2.0
2210.7097	28.01	-4.35	130147.870	.5	134670.070	1.5
2210.7147	18.01	-4.20	209338.210	3.5	213860.400	4.5
2211.0618	18.01	-3.18	209337.870	4.5	213859.350	4.5
2211.1107	20.00	-1.18	42514.845	0.0	47036.225	1.0
2211.1156	18.01	-1.45	209337.870	4.5	213859.240	5.5
2211.1502	20.00	-1.31	42518.708	1.0	47040.007	2.0
2211.2280	18.01	-1.54	209338.210	3.5	213859.350	4.5
2211.2329	15.00	-1.56	65373.470	.5	69894.600	1.5
2211.2476	15.00	-2.59	75905.100	2.5	80426.200	1.5
2211.2603	18.00	-.63	112138.980	2.0	116660.054	1.0
2211.4712	18.00	-1.36	118651.447	1.0	123172.090	1.0
2211.5020	25.00	-3.81	53101.320	.5	57621.900	1.5
2211.5851	10.01	-1.91	276276.850	1.5	280797.260	2.5
2211.6439	23.02	-4.13	155801.600	1.5	160321.890	2.5
2211.6786	17.00	-2.52	97004.081	1.5	101524.300	2.5
2211.7300	17.00	-.47	97667.396	3.5	102187.510	2.5
2211.9521	18.01	-.32	210477.770	3.5	214997.430	4.5
2212.2605	18.01	-1.00	210477.770	3.5	214996.800	3.5
2212.3731	28.01	-2.19	118294.170	3.5	122812.970	3.5
2212.3731	25.00	-4.63	52870.100	3.5	57388.900	4.5
2212.3961	28.00	-2.36	49185.146	2.0	53703.899	1.0
2212.4172	25.00	-3.56	53103.190	1.5	57621.900	1.5
2212.4466	20.00	-.56	42526.591	2.0	47045.241	3.0
2212.8290	14.00	-3.68	54257.582	3.0	58775.451	2.0
2213.0014	20.00	-1.78	42518.708	1.0	47036.225	1.0
2213.1146	26.00	-4.26	44411.137	1.0	48928.423	2.0
2213.3595	14.00	-2.66	54257.582	3.0	58774.368	3.0
2213.4262	27.00	-2.12	44201.920	2.5	48718.570	2.5
2213.5095	6.00	-2.33	84935.340	1.0	89451.820	1.0
2214.0733	24.00	-3.44	48558.570	2.0	53073.900	3.0
2214.1360	7.00	-3.21	111326.798	2.5	115842.000	1.5
2214.3381	7.00	-4.74	110473.210	4.5	114988.000	3.5
2214.4896	20.00	-4.59	40537.893	3.0	45052.374	3.0
2214.5294	27.00	-4.58	48828.870	2.5	53343.270	1.5
2214.7993	6.00	-4.43	83820.130	1.0	88333.980	0.0
2214.9514	23.00	-3.98	37025.600	3.5	41539.140	4.5
2215.0112	17.00	-2.01	97674.092	3.5	102187.510	2.5
2215.0122	20.00	-1.31	42526.591	2.0	47040.007	2.0
2215.0642	28.01	-4.51	117662.110	1.5	122175.420	2.5
2215.1281	17.00	-2.05	97674.330	2.5	102187.510	2.5
2215.1423	14.00	-1.49	57328.789	1.0	61841.940	2.0
2215.2262	6.00	-2.92	83747.390	2.0	88260.370	2.0
2215.3686	25.00	-2.91	53109.210	2.5	57621.900	1.5
2215.4491	20.00	-1.55	40537.893	3.0	45050.419	2.0
2215.5110	6.00	-3.37	83986.220	3.0	88498.620	2.0
2215.5424	10.00	-1.46	167559.060	3.0	172071.396	2.0
2215.6239	6.00	-.97	70743.950	1.0	75256.120	0.0
2215.6779	6.00	-2.19	84935.340	1.0	89447.400	2.0
2215.7732	26.00	-4.01	47555.584	1.0	52067.450	2.0
2215.9381	18.01	-2.07	201608.820	3.5	206120.350	2.5
2215.9760	26.00	-3.02	47092.693	3.0	51604.146	3.0
2216.0413	6.00	-.43	70743.950	1.0	75255.270	2.0
2216.1887	28.01	-4.42	115739.150	4.5	120250.170	3.5
2216.2182	28.01	-3.04	130751.030	5.5	135261.990	4.5
2216.5818	22.00	-4.78	44162.440	4.0	48672.660	4.0
2216.6801	6.00	-.54	70743.950	1.0	75253.970	1.0
2216.6850	18.01	-.97	203501.800	2.5	208011.810	1.5
2216.6997	18.01	-4.48	206132.660	4.5	210642.640	5.5
2216.7096	27.00	-2.22	44568.470	2.5	49078.430	1.5
2216.7597	14.00	-2.79	59131.912	4.0	63641.770	3.0
2216.7636	18.01	-.52	210464.710	2.5	214974.560	3.5
2216.7931	18.01	-.85	210464.710	2.5	214974.500	2.5
2216.8030	18.01	-4.46	206120.350	2.5	210630.120	3.5
2216.8276	18.01	-3.53	206148.940	3.5	210658.660	2.5
2216.8286	22.00	-2.77	29661.232	1.0	34170.950	0.0
2216.8374	18.01	-1.96	206120.350	2.5	210630.050	2.5
2216.8699	20.00	-2.48	42526.591	2.0	47036.225	1.0
2216.9957	26.00	-4.39	44022.518	4.0	48531.896	3.0
2217.2209	18.00	-3.08	119847.810	1.0	124356.730	2.0
2217.4570	22.00	-4.92	44079.840	2.0	48588.280	3.0
2217.4766	15.01	-1.54	127889.300	3.0	132397.700	2.0
2217.6478	26.00	-3.38	47197.000	2.0	51705.052	2.0
2217.6931	6.00	-3.66	83752.410	1.0	88260.370	2.0
2217.8161	23.00	-4.95	34619.520	2.5	39127.230	1.5
2217.8751	28.01	-4.09	132225.150	1.5	136732.740	1.5
2217.9194	30.02	-.67	260805.900	2.0	265313.400	2.0
2217.9735	18.00	-2.34	120207.770	4.0	124715.160	3.0
2218.1015	29.01	-1.38	137034.970	3.0	141542.100	2.0
2218.5691	18.01	-2.20	204417.230	1.5	208923.410	2.5
2218.7365	9.02	-3.84	440069.510	1.5	444575.350	2.5
2218.8498	7.00	-4.11	110498.390	3.5	115004.000	3.5
2218.8793	27.00	-4.38	48837.720	.5	53343.270	1.5
2218.9926	26.02	-3.64	200437.940	2.0	204943.260	2.0
2219.1502	6.00	-4.59	84036.400	2.0	88541.400	2.0
2219.2157	26.00	-4.72	49242.680	2.0	53747.547	3.0
2219.2585	10.01	-.93	303518.210	1.5	308022.990	.5
2219.3103	26.00	-4.51	49242.872	3.0	53747.547	3.0
2219.4064	28.01	-3.48	130757.510	4.5	135261.990	4.5
2219.4507	27.00	-3.38	49197.740	4.5	53702.130	3.5
2219.5985	24.00	-4.01	48507.560	1.0	53011.650	1.0
2219.6577	18.01	-2.33	204417.230	1.5	208921.200	1.5
2219.6626	9.00	-1.01	125637.690	2.5	130141.650	1.5
2219.8006	18.00	-3.69	120188.340	1.0	124692.020	2.0
2219.8686	22.00	-2.27	31628.668	5.0	36132.210	4.0
2220.0915	23.00	-1.24	36989.200	2.5	41492.290	3.5
2220.1851	15.00	-.83	75833.400	2.5	80336.300	2.5
2220.3479	21.00	-2.96	11520.150	1.5	16022.720	2.5
2220.4563	7.00	-3.00	110501.650	4.5	115004.000	3.5
2220.5303	7.00	-4.17	110501.800	3.5	115004.000	3.5
2220.6339	7.00	-4.39	110486.010	2.5	114988.000	3.5
2220.8115	21.00	-1.72	11520.150	1.5	16021.780	1.5
2220.8258	14.00	-2.68	58311.659	0.0	62813.260	1.0
2220.8648	14.00	-2.59	60381.278	1.0	64882.800	2.0
2220.8756	12.02	-3.55	582290.100	3.0	586791.600	2.0
2220.8756	13.01	.20	121365.200	0.0	125866.700	1.0
2220.8855	10.00	-2.02	168355.510	1.0	172856.990	1.0
2220.8954	6.00	-1.83	84950.360	2.0	89451.820	1.0
2220.9733	18.00	-1.48	116660.054	1.0	121161.356	1.0
2221.0188	18.01	-.48	210477.770	3.5	214976.980	4.5
2221.0681	22.00	-1.85	13981.750	1.0	18482.860	1.0
2221.2146	20.00	-3.90	43933.477	1.0	48434.290	2.0
2221.5271	28.01	-3.27	132225.150	1.5	136725.330	.5
2222.0554	6.00	-1.88	83761.260	3.0	88260.370	2.0
2222.4160	21.00	-4.71	31172.620	1.5	35671.000	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2222.4259	10.00	-2.31	168358.630	1.0	172856.990	1.0
2222.4950	28.01	-.50	99154.810	4.5	103653.030	3.5
2222.5296	28.01	-3.18	118314.820	2.5	122812.970	3.5
2222.5444	6.01	-.77	178495.110	1.5	182993.230	1.5
2222.5444	6.01	-.08	178495.110	1.5	182993.230	.5
2222.5839	6.00	-2.17	84950.360	2.0	89448.400	3.0
2222.6433	28.01	-3.12	130480.550	3.5	134978.470	2.5
2222.7095	14.00	-1.71	56700.250	1.0	61198.036	0.0
2222.7525	22.00	-3.69	37555.021	3.0	42052.720	3.0
2222.8113	9.00	-.32	125877.280	1.5	130374.860	1.5
2222.8410	6.01	.18	178495.710	2.5	182993.230	1.5
2222.8707	18.01	-4.01	206132.660	4.5	210630.120	3.5
2222.9927	26.00	-2.67	45061.287	3.0	49558.500	4.0
2223.0782	6.00	-2.27	84950.360	2.0	89447.400	2.0
2223.1820	27.00	-4.37	49197.740	4.5	53694.570	3.5
2223.2018	18.01	-1.27	210477.770	3.5	214974.560	3.5
2223.2315	28.01	-4.99	130765.260	3.5	135261.990	4.5
2223.2315	18.01	-3.05	210477.770	3.5	214974.500	2.5
2223.2858	10.00	-2.32	168355.510	1.0	172852.130	0.0
2223.2957	22.00	-1.74	14028.470	2.0	18525.070	2.0
2223.2957	19.00	-.85	30185.240	2.5	34681.840	1.5
2223.3615	28.00	-2.80	45281.152	3.0	49777.619	3.0
2223.5232	6.00	-3.07	84935.340	1.0	89431.480	2.0
2223.5430	19.00	-1.81	30185.740	1.5	34681.840	1.5
2223.5430	19.00	-1.11	30185.740	1.5	34681.840	.5
2223.5529	25.00	-3.81	58136.690	3.5	62632.770	3.5
2223.5727	28.01	-4.37	130174.030	1.5	134670.070	1.5
2223.6172	7.00	-3.96	110521.050	1.5	115017.000	.5
2223.7112	28.01	-4.64	95893.760	1.5	100389.520	2.5
2224.0624	28.01	-3.05	101366.140	2.5	105861.190	2.5
2224.0871	12.02	-4.54	582290.100	3.0	586785.100	3.0
2224.0871	13.01	-1.63	142849.200	4.0	147344.200	3.0
2224.0871	13.01	-2.30	142849.200	4.0	147344.200	3.0
2224.0871	13.01	-3.47	142849.200	3.0	147344.200	3.0
2224.1861	10.01	-2.72	303279.910	2.5	307774.710	1.5
2224.2054	14.00	-1.10	57328.789	1.0	61823.550	2.0
2224.2801	23.02	-3.70	156671.200	2.5	161165.810	2.5
2224.4137	22.00	-3.35	37690.320	5.0	42184.660	4.0
2224.4464	14.00	-2.37	57017.496	2.0	61511.770	1.0
2224.4652	26.00	-3.78	47555.584	1.0	52049.820	2.0
2224.5078	13.02	.03	205375.740	.5	209869.890	.5
2224.5672	18.01	-1.81	195031.120	2.5	199525.150	1.5
2224.6811	15.00	-2.00	75689.200	1.5	80183.000	2.5
2224.7107	28.01	-3.79	116824.150	2.5	121317.890	3.5
2224.8295	10.00	-2.01	168358.630	1.0	172852.130	0.0
2225.1167	18.01	-.42	214667.480	2.5	219160.400	2.5
2225.2703	28.01	-3.68	131834.940	2.5	136327.550	1.5
2225.3347	10.01	-3.37	302816.980	1.5	307309.460	.5
2225.4487	18.00	-3.18	119566.110	3.0	124058.360	3.0
2225.4487	18.00	-.33	119566.110	3.0	124058.360	4.0
2225.4972	26.00	-4.20	49433.108	2.0	53925.260	1.0
2225.6220	26.01	-.57	82978.900	4.5	87470.800	4.5
2225.7192	26.00	-1.68	40842.130	3.0	45333.834	2.0
2225.7360	10.01	-4.33	276276.850	1.5	280768.520	.5
2226.0269	26.00	-1.91	41018.029	2.0	45509.112	1.0
2226.0943	22.00	-2.82	41341.553	5.0	45832.500	5.0
2226.2148	22.00	-7.34	11776.806	4.0	16267.510	5.0
2226.3209	29.01	-3.50	136754.110	2.0	141244.600	1.0
2226.6184	10.01	-1.33	302750.810	3.5	307240.700	3.5
2226.7210	10.00	-1.79	167591.233	2.0	172080.916	1.0
2226.7463	7.00	-2.89	111501.368	1.5	115991.000	2.5
2226.7573	7.00	-3.53	110498.390	3.5	114988.000	3.5
2226.7821	21.00	-1.27	11520.150	1.5	16009.710	.5
2226.8614	12.02	-1.92	582290.100	3.0	586779.500	4.0
2226.9111	15.00	-2.80	72386.100	2.5	76875.400	1.5
2226.9111	13.01	.06	144780.200	2.0	149269.500	3.0
2226.9646	22.00	-3.93	37617.868	4.0	42107.060	4.0
2227.0400	21.00	-4.44	32659.210	1.5	37148.250	1.5
2227.0549	18.01	-1.29	206120.350	2.5	210609.360	3.5
2227.1988	10.01	-.26	303518.210	1.5	308006.930	.5
2227.2425	7.00	-2.47	111501.368	1.5	115990.000	.5
2227.2425	7.00	-1.77	111501.368	1.5	115990.000	1.5
2227.2425	7.00	-1.89	111501.368	1.5	115990.000	2.5
2227.2434	25.00	-2.71	47299.290	.5	51787.920	.5
2227.4022	22.00	-1.84	14105.680	3.0	18593.990	3.0
2227.4255	20.00	-.72	38259.124	3.0	42747.387	3.0
2227.5611	18.00	-2.86	119566.110	3.0	124054.100	3.0
2227.6305	29.01	-.69	116388.000	2.0	120875.850	2.0
2227.6524	17.00	-3.05	95700.874	3.5	100188.680	4.5
2227.6553	24.00	-4.44	50184.100	2.0	54671.900	1.0
2227.6554	12.02	-2.90	582290.100	3.0	586777.900	3.0
2227.7963	20.00	-.97	40474.241	1.0	44961.757	2.0
2228.1022	26.01	-.20	82853.500	5.5	87340.400	5.5
2228.1717	28.01	-2.60	116838.330	1.5	121325.090	2.5
2228.1916	9.00	-1.77	129484.660	1.5	133971.380	1.5
2228.2700	22.00	-1.50	37824.748	4.0	42311.310	3.0
2228.3754	7.00	-3.25	110501.650	4.5	114988.000	3.5
2228.4000	2.00	-1.49	191493.000	0.0	195980.525	0.0
2228.6883	20.02	-4.12	385906.900	2.0	390392.620	3.0
2228.7082	28.01	-4.61	130184.390	2.5	134670.070	1.5
2228.7519	20.00	-1.59	38259.124	3.0	42744.716	2.0
2228.7777	18.00	-2.68	119566.110	3.0	124051.650	2.0
2228.8721	18.00	-2.37	120229.810	3.0	124715.160	3.0
2228.8821	18.00	-1.01	119566.110	3.0	124051.440	3.0
2228.8836	17.00	-2.57	91127.030	2.5	95612.357	1.5
2228.9367	6.00	-4.34	84013.400	2.0	88498.620	2.0
2229.0014	18.00	-4.07	120230.070	2.0	124715.160	3.0
2229.2687	17.00	-2.04	95700.874	3.5	100185.426	2.5
2229.3011	22.00	-3.83	37622.573	3.0	42107.060	4.0
2229.3045	29.01	-1.66	118532.150	2.0	123016.630	3.0
2229.3667	26.00	-4.51	47555.584	1.0	52039.939	1.0
2229.4388	9.00	-.88	129607.070	.5	134091.280	1.5
2229.5034	18.01	-.15	204929.400	.5	209413.480	1.5
2229.5432	28.01	-.57	122847.600	3.5	127331.600	2.5
2229.6078	17.00	-1.57	97703.640	1.5	102187.510	2.5
2229.6426	15.00	-3.07	75689.200	1.5	80173.000	.5
2229.7123	25.00	-1.89	47154.510	1.5	51638.170	2.5
2229.7421	30.02	-1.44	257962.500	2.0	262446.100	3.0
2229.7575	17.00	-.71	97703.941	2.5	102187.510	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2229.8346	20.00	-1.21	40474.241	1.0	44957.655	1.0
2229.8416	10.01	-4.11	313718.990	3.5	318202.390	2.5
2229.9012	22.00	-2.07	34170.950	0.0	38654.230	1.0
2230.0405	17.01	-2.74	146330.000	1.0	150813.000	1.0
2230.0405	10.01	-4.29	313719.370	2.5	318202.370	1.5
2230.0903	10.01	-4.51	313180.230	1.5	317663.130	1.5
2230.1002	28.01	-4.04	117662.110	1.5	122144.990	2.5
2230.1400	22.00	-3.09	41585.240	3.0	46068.040	4.0
2230.2719	26.00	-3.37	47271.999	1.0	51754.534	1.0
2230.4784	13.02	.33	205387.770	1.5	209869.890	.5
2230.5381	8.03	-1.28	591962.000	2.5	596444.000	2.5
2230.5978	28.01	-2.85	130900.650	2.5	135382.530	1.5
2230.6376	29.01	-3.98	141733.900	2.0	146215.700	1.0
2230.6924	26.00	-4.79	46888.494	2.0	51370.184	2.0
2230.8223	20.00	-1.69	40474.241	1.0	44955.670	0.0
2230.9463	18.01	-2.52	206148.940	3.5	210630.120	3.5
2230.9761	6.00	-2.49	84950.360	2.0	89431.480	2.0
2230.9960	22.00	-2.21	13981.750	1.0	18462.830	0.0
2231.0259	9.00	-.87	129484.660	1.5	133965.680	2.5
2231.1056	28.01	-2.19	101357.200	4.5	105838.060	3.5
2231.2699	18.00	-1.03	119566.110	3.0	124046.640	4.0
2231.3645	8.00	-1.85	103625.766	1.0	108106.106	0.0
2231.3660	8.00	-1.50	103625.766	1.0	108106.103	1.0
2231.3689	8.00	-1.61	103625.766	1.0	108106.097	2.0
2231.4526	10.00	-2.09	167591.233	2.0	172071.396	2.0
2231.5438	8.00	-1.98	103626.123	2.0	108106.103	1.0
2231.5468	8.00	-1.39	103626.123	2.0	108106.097	2.0
2231.5508	8.00	-1.18	103626.123	2.0	108106.089	3.0
2231.7605	14.00	-4.86	59034.988	3.0	63514.533	4.0
2231.7959	8.00	-2.33	103626.623	3.0	108106.097	2.0
2231.7999	8.00	-1.48	103626.623	3.0	108106.089	3.0
2231.8023	8.00	-.90	103626.623	3.0	108106.084	4.0
2231.8676	15.00	-1.30	65373.470	.5	69852.800	.5
2231.9324	17.01	-4.54	146333.800	2.0	150813.000	1.0
2232.0570	24.00	-3.86	48558.570	2.0	53037.520	2.0
2232.4059	10.00	-1.62	168378.740	2.0	172856.990	1.0
2232.4378	28.00	-1.60	44475.158	2.0	48953.344	1.0
2232.6751	10.01	-1.91	276511.820	.5	280989.530	1.5
2232.7001	10.01	-.91	302831.800	.5	307309.460	.5
2232.7300	15.00	-2.27	75705.400	3.5	80183.000	2.5
2232.7849	14.00	-3.26	59037.043	4.0	63514.533	4.0
2232.8097	22.00	-3.63	38670.710	4.0	43148.150	3.0
2232.9544	29.01	-3.91	129116.900	3.0	133594.050	3.0
2233.1788	18.01	-3.37	206132.660	4.5	210609.360	3.5
2233.1838	23.00	-3.72	38003.930	1.5	42480.620	.5
2233.1888	22.00	-4.21	43583.140	3.0	48059.820	3.0
2233.2237	18.01	-2.39	206132.660	4.5	210609.270	4.5
2233.3834	23.00	-4.63	33527.640	2.5	38003.930	1.5
2233.6229	23.00	-2.09	37025.600	3.5	41501.410	4.5
2233.6229	18.01	-.91	202155.860	2.5	206631.670	2.5
2233.6329	25.00	-3.36	52015.000	1.5	56490.790	2.5
2233.6329	25.00	-1.63	52015.000	3.5	56490.790	2.5
2233.8525	23.00	-4.79	32846.740	2.5	37322.090	3.5
2233.8925	18.00	-2.27	119566.110	3.0	124041.380	2.0
2234.0122	18.01	-3.03	206132.660	4.5	210607.690	4.5
2234.0821	18.01	-1.37	206132.660	4.5	210607.550	5.5
2234.1870	15.00	-1.35	65450.020	1.5	69924.700	2.5
2234.3102	7.00	-4.45	111143.567	.5	115618.000	1.5
2234.3368	21.00	-3.10	37486.480	1.5	41960.860	2.5
2234.4316	13.02	-1.33	209263.250	2.5	213737.440	2.5
2234.4316	13.02	-.03	209263.250	3.5	213737.440	2.5
2234.4316	13.02	-.18	209263.250	2.5	213737.440	1.5
2234.5485	18.00	-4.70	120600.944	2.0	125074.900	2.0
2234.7963	10.01	-1.03	302425.870	1.5	306899.330	2.5
2234.8062	18.01	-1.02	201781.790	2.5	206255.230	2.5
2234.9262	15.00	-3.83	75699.800	.5	80173.000	.5
2235.0061	25.00	-4.19	58159.730	2.5	62632.770	3.5
2235.0460	10.01	-2.44	313718.990	3.5	318191.950	3.5
2235.0510	10.01	-4.24	313718.990	3.5	318191.940	2.5
2235.1700	22.00	-3.44	29855.248	1.0	34327.960	1.0
2235.1815	28.00	-1.58	44262.619	2.0	48735.308	2.0
2235.2360	10.01	-2.04	313719.370	2.5	318191.950	3.5
2235.2410	10.01	-2.91	313719.370	2.5	318191.940	2.5
2235.3410	18.01	-2.15	186470.280	1.5	190942.650	.5
2235.4209	6.00	-1.50	84103.100	2.0	88575.310	3.0
2235.4259	15.01	-.21	127900.400	0.0	132372.600	1.0
2235.5659	28.01	-2.72	101366.140	2.5	105838.060	3.5
2235.6409	6.00	-1.13	84103.100	2.0	88574.870	3.0
2235.6509	6.00	-2.11	84103.100	2.0	88574.850	2.0
2235.6979	18.00	-3.89	120600.944	2.0	125072.600	1.0
2235.7099	7.00	-2.81	111501.368	1.5	115973.000	1.5
2235.8258	29.01	-2.65	136773.200	1.0	141244.600	1.0
2235.8453	18.00	-.55	121011.979	1.0	125483.340	2.0
2235.9929	26.00	-3.49	45333.834	2.0	49804.900	3.0
2236.0259	13.01	-.99	144781.900	3.0	149252.900	3.0
2236.0259	13.01	.44	144781.900	3.0	149252.900	4.0
2236.0259	13.01	-2.78	144781.900	3.0	149252.900	4.0
2236.2359	19.00	-1.79	28127.850	2.5	32598.430	1.5
2236.3010	19.00	-1.64	28127.850	3.5	32598.300	2.5
2236.3010	19.00	-2.94	28127.850	2.5	32598.300	2.5
2236.3860	26.02	-3.38	218860.430	2.0	223330.710	3.0
2236.4761	26.01	-3.68	96279.650	2.5	100749.750	2.5
2236.6047	26.00	-4.30	40207.120	3.0	44676.963	4.0
2236.6332	26.00	-3.76	46410.366	1.0	50880.152	1.0
2236.6762	18.01	-.20	210527.100	2.5	214996.800	3.5
2236.7243	14.00	-1.79	56978.256	1.0	61447.860	2.0
2236.8613	6.00	-2.80	83791.040	2.0	88260.370	2.0
2236.9315	26.02	-3.19	200437.940	2.0	204907.130	1.0
2236.9585	17.00	-1.64	95700.874	3.5	100170.010	2.5
2236.9790	7.00	-1.81	111060.905	.5	115530.000	.5
2236.9790	7.00	-3.29	111060.905	.5	115530.000	1.5
2237.0436	17.00	-1.22	95700.874	3.5	100169.840	3.5
2237.0816	23.02	-4.84	155853.000	2.5	160321.890	2.5
2237.1768	13.01	-.83	138811.900	3.0	143280.600	4.0
2237.1768	8.01	-4.96	251220.900	3.5	255689.600	2.5
2237.2819	28.01	-3.30	118379.110	2.5	122847.600	3.5
2237.3520	29.01	-1.33	137073.750	2.0	141542.100	2.0
2237.4832	26.00	-2.09	47136.058	2.0	51604.146	3.0
2237.4862	17.00	-.53	94732.300	3.5	99200.382	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2237.5448	26.00	-4.50	47271.999	1.0	51739.964	2.0
2237.5573	18.01	.48	202155.860	2.5	206623.800	3.5
2237.5819	14.00	-1.32	57468.239	2.0	61936.130	1.0
2237.8077	26.02	-2.98	218860.430	2.0	223327.870	2.0
2237.8779	8.01	-3.19	251224.100	2.5	255691.400	3.5
2237.9780	15.00	.15	75833.400	2.5	80300.500	3.5
2238.0913	26.00	-1.49	40594.413	4.0	45061.287	3.0
2238.1835	23.00	-3.83	37025.600	3.5	41492.290	3.5
2238.2787	29.01	-2.41	134675.600	2.0	139142.100	2.0
2238.2897	22.00	-4.25	41255.400	4.0	45721.878	4.0
2238.3087	28.01	-4.97	97273.830	2.5	101740.270	3.5
2238.3909	22.00	-6.79	11639.804	3.0	16106.080	4.0
2238.5232	26.00	-1.83	42911.897	5.0	47377.909	4.0
2238.5779	17.00	-1.92	91069.020	.5	95534.923	.5
2238.6060	22.00	-4.66	15108.121	3.0	19573.968	4.0
2238.6646	18.01	-2.10	210531.700	5.5	214997.430	4.5
2238.7950	28.01	-1.44	113407.310	2.5	117872.780	2.5
2238.8586	17.00	-.70	95700.874	3.5	100166.217	3.5
2238.8902	10.01	-1.75	313718.990	3.5	318184.270	4.5
2238.8952	10.01	-1.49	313718.990	3.5	318184.260	3.5
2238.9905	21.00	-1.63	11557.640	2.5	16022.720	2.5
2239.0256	18.00	-4.66	120250.150	3.0	124715.160	3.0
2239.0256	18.00	-1.68	120250.150	4.0	124715.160	3.0
2239.0857	10.01	-.05	313719.370	2.5	318184.260	3.5
2239.1489	17.00	-.07	95700.874	3.5	100165.638	4.5
2239.1810	10.01	.07	313718.990	3.5	318183.690	4.5
2239.3085	17.00	-1.16	95706.534	1.5	100170.980	1.5
2239.3185	26.00	-2.22	41130.620	1.0	45595.046	0.0
2239.3867	18.01	-4.61	210447.010	3.5	214911.300	2.5
2239.4620	21.00	-1.06	11557.640	2.5	16021.780	1.5
2239.4710	26.00	-4.06	47555.584	1.0	52019.706	1.0
2239.4971	28.01	-1.21	113408.710	1.5	117872.780	2.5
2239.6426	18.01	.56	201781.790	2.5	206245.570	3.5
2239.7831	23.00	-1.73	37075.640	4.5	41539.140	4.5
2239.7981	29.01	-2.13	116326.160	3.0	120789.630	4.0
2239.8181	6.00	-2.35	84984.970	3.0	89448.400	3.0
2239.9863	7.00	-2.48	111060.905	.5	115524.000	.5
2239.9863	7.00	-2.19	111060.905	.5	115524.000	1.5
2240.1344	15.01	-1.15	127934.900	1.0	132397.700	2.0
2240.2197	27.00	-4.49	49197.740	4.5	53660.370	5.5
2240.2699	18.01	-1.47	210534.900	4.5	214997.430	4.5
2240.3201	6.00	-3.29	84984.970	3.0	89447.400	2.0
2240.4205	21.00	-2.89	37553.340	2.5	42015.570	3.5
2240.4306	18.00	-3.71	120229.810	3.0	124692.020	2.0
2240.4356	13.01	-2.54	138496.700	1.0	142958.900	1.0
2240.5611	18.00	-2.43	120230.070	2.0	124692.020	2.0
2240.5862	18.01	-2.59	210534.900	4.5	214996.800	3.5
2240.7771	18.01	-.54	210512.980	1.5	214974.500	2.5
2240.7931	26.00	-3.45	43499.485	4.0	47960.973	4.0
2240.8479	26.00	-2.72	46889.126	4.0	51350.505	4.0
2241.0940	18.00	-4.26	120188.660	2.0	124649.549	3.0
2241.2091	28.01	-3.31	130801.330	4.5	135261.990	4.5
2241.3296	18.01	-4.98	206148.940	3.5	210609.360	3.5
2241.5206	25.00	-4.77	52758.110	4.5	57218.150	3.5
2241.5960	28.01	-4.58	71457.740	3.5	75917.630	3.5
2241.6664	10.01	-1.55	302961.070	1.5	307420.820	2.5
2241.9681	7.00	-3.25	110544.850	2.5	115004.000	3.5
2242.0741	7.00	-2.96	111853.061	1.5	116312.000	.5
2242.0741	7.00	-4.26	111853.061	1.5	116312.000	1.5
2242.1158	18.00	-4.03	120600.944	2.0	125059.800	2.0
2242.1641	6.00	-3.34	84116.090	1.0	88574.850	2.0
2242.1646	14.00	-1.23	56503.346	2.0	60962.105	2.0
2242.1691	18.01	-1.49	206148.940	3.5	210607.690	4.5
2242.2848	14.00	-1.77	59032.140	2.0	63490.660	3.0
2242.2949	17.01	-2.54	141010.000	2.0	145468.500	1.0
2242.3753	29.01	-4.75	131206.000	0.0	135664.340	1.0
2242.3955	27.00	-2.60	48317.170	3.5	52775.470	4.5
2242.5262	26.00	-3.52	44676.963	4.0	49135.003	3.0
2242.5967	13.01	-1.27	138811.900	2.0	143269.800	3.0
2242.5967	13.01	-2.18	138811.900	3.0	143269.800	3.0
2242.6369	27.00	-4.66	47612.180	1.5	52070.000	2.5
2242.6862	26.00	-4.57	47755.485	3.0	52213.207	3.0
2242.7778	19.00	-.94	30185.240	2.5	34642.780	1.5
2242.8684	23.00	-7.79	13801.530	1.5	18258.890	2.5
2242.8985	14.00	-1.36	59032.140	2.0	63489.440	2.0
2243.0294	19.00	-1.90	30185.740	1.5	34642.780	1.5
2243.0294	19.00	-1.20	30185.740	1.5	34642.780	.5
2243.1290	7.00	-3.39	111165.158	1.5	115622.000	2.5
2243.2156	6.00	-1.73	83877.310	1.0	88333.980	0.0
2243.5781	24.00	-3.24	48661.590	3.0	53117.540	4.0
2243.6183	14.00	-1.60	59032.140	2.0	63488.010	3.0
2243.6415	18.00	-3.25	120619.076	2.0	125074.900	2.0
2244.3638	22.00	-2.33	14028.470	2.0	18482.860	1.0
2244.4495	18.01	-.16	199679.760	2.5	204133.980	2.5
2244.5654	28.01	-3.09	115827.120	3.5	120281.110	4.5
2244.5759	17.00	-.44	92140.127	1.5	96594.096	.5
2244.7317	28.01	-2.81	131834.940	2.5	136288.600	2.5
2244.8002	18.00	-4.77	120619.076	2.0	125072.600	1.0
2244.8461	7.00	-3.28	111143.567	.5	115597.000	1.5
2244.8849	26.00	-4.84	47008.351	5.0	51461.707	4.0
2244.9736	29.01	-.38	115639.020	2.0	120092.200	2.0
2244.9736	27.00	-4.44	50712.450	2.5	55165.630	2.5
2245.0039	25.00	-4.55	57621.900	1.5	62075.020	2.5
2245.0241	24.00	-4.88	48558.570	2.0	53011.650	1.0
2245.0745	28.01	-4.30	130205.620	5.5	134658.600	4.5
2245.1441	7.00	-2.77	111165.158	1.5	115618.000	.5
2245.1441	7.00	-3.07	111165.158	1.5	115618.000	1.5
2245.1441	7.00	-2.24	111165.158	1.5	115618.000	2.5
2245.2358	28.01	.36	129842.330	2.5	134294.990	2.5
2245.2509	27.00	-3.29	49484.050	3.5	53936.680	2.5
2245.4476	6.00	-2.47	83740.060	0.0	88192.300	1.0
2245.4673	17.00	-2.62	90948.530	1.5	95400.731	2.5
2245.4895	17.00	-1.57	95313.749	1.5	99765.906	2.5
2245.5157	28.00	-2.89	51124.800	3.0	55576.905	3.0
2245.5995	7.00	-3.83	111853.061	1.5	116305.000	1.5
2245.5995	7.00	-3.34	111853.061	1.5	116305.000	.5
2245.6005	20.00	-1.73	40537.893	3.0	44989.830	2.0
2245.7200	28.01	-4.92	130206.900	4.5	134658.600	4.5
2245.8663	21.00	-4.48	32696.840	2.5	37148.250	1.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
2245.9269	17.00	-3.08	96594.096	.5	101045.386	1.5
2246.1590	28.01	-4.53	117662.110	1.5	122112.940	.5
2246.1741	13.01	-1.81	138811.900	2.0	143262.700	2.0
2246.1741	13.01	-1.08	138811.900	1.0	143262.700	2.0
2246.1741	13.01	-3.35	138811.900	3.0	143262.700	2.0
2246.2256	14.00	-4.49	59191.072	2.0	63641.770	3.0
2246.4568	27.00	-4.57	41225.760	4.5	45676.000	5.5
2246.4769	30.02	-1.94	260805.900	2.0	265256.100	3.0
2246.5527	18.01	-2.00	194996.490	1.5	199446.540	.5
2247.0829	15.00	-4.11	76173.400	3.5	80622.400	2.5
2247.1435	28.01	-4.16	94705.930	3.5	99154.810	4.5
2247.4264	21.00	-4.82	32637.400	.5	37085.720	.5
2247.4850	26.00	-3.97	45595.046	0.0	50043.250	1.0
2247.4921	17.00	-1.99	97739.320	1.5	102187.510	2.5
2247.7043	25.00	-3.98	50012.530	2.5	54460.300	2.5
2247.8610	18.01	-.48	210527.100	2.5	214974.560	3.5
2247.8912	18.01	-1.61	210527.100	2.5	214974.500	2.5
2247.8998	12.00	-2.46	56308.381	2.0	60755.764	2.0
2247.8998	12.00	-2.49	56308.381	2.0	60755.764	3.0
2247.8998	12.00	-1.41	56308.381	2.0	60755.764	3.0
2247.9014	23.00	-3.87	36989.200	2.5	41436.580	3.5
2247.9519	18.01	-3.03	210531.700	5.5	214978.980	4.5
2247.9570	29.01	-3.26	131312.700	3.0	135759.970	2.0
2248.0126	18.01	-1.29	210531.700	5.5	214978.860	5.5
2248.0176	9.00	-2.23	129484.660	1.5	133931.810	2.5
2248.0429	15.01	-.76	127950.600	2.0	132397.700	2.0
2248.0803	22.00	-4.67	37538.804	2.0	41985.830	3.0
2248.2856	23.02	-4.14	156130.000	4.5	160576.620	3.5
2248.3007	18.01	-4.86	210464.710	2.5	214911.300	2.5
2248.3412	6.00	-2.81	84984.970	3.0	89431.480	2.0
2248.3968	28.01	-4.51	115209.850	3.5	119656.250	3.5
2248.4373	24.00	-4.93	44875.190	2.0	49321.510	2.0
2248.5536	28.01	-3.53	114869.350	1.5	119315.440	2.5
2248.5587	28.01	-4.59	130815.910	3.5	135261.990	4.5
2248.5738	28.01	-4.26	116732.510	2.5	121178.560	3.5
2248.6952	6.00	-2.06	83752.410	1.0	88198.220	2.0
2248.7964	23.00	-1.14	20202.490	2.5	24648.100	1.5
2248.8976	28.01	-4.08	115827.120	3.5	120272.530	4.5
2248.9532	23.00	-1.33	36983.630	1.5	41428.930	2.5
2248.9532	30.02	-1.54	257491.100	0.0	261936.400	1.0
2248.9886	23.00	-4.94	37959.660	2.5	42404.890	3.5
2249.1505	6.00	-4.27	83747.390	2.0	88192.300	1.0
2249.3176	15.00	-1.04	65450.020	1.5	69894.600	1.5
2249.3393	26.00	-2.01	47017.170	3.0	51461.707	4.0
2249.3580	30.02	-1.64	258075.700	3.0	262520.200	2.0
2249.4795	27.00	-4.77	50945.470	.5	55389.730	1.5
2249.4795	28.01	-4.42	101144.630	3.5	105588.890	4.5
2249.5706	18.01	-1.49	210534.900	4.5	214978.980	4.5
2249.6314	18.01	.48	210534.900	4.5	214978.860	5.5
2249.6567	22.00	-3.89	41624.130	4.0	46068.040	4.0
2249.6617	29.01	-1.73	134675.600	2.0	139119.500	3.0
2249.6972	22.00	-6.19	11531.760	2.0	15975.590	3.0
2249.8642	38.01	.26	68793.600	0.0	73238.313	0.0
2249.9250	22.00	-3.16	42206.880	2.0	46650.260	3.0
2250.0415	7.00	-3.23	110544.850	2.5	114988.000	3.5
2250.2613	17.00	-.15	92151.380	.5	96594.096	.5
2250.2846	22.01	-2.52	64884.650	2.5	69327.320	1.5
2250.6387	17.00	-1.96	94827.150	2.5	99269.121	2.5
2250.6899	18.00	-1.74	120250.150	3.0	124692.020	2.0
2250.7360	18.00	-1.63	120207.770	4.0	124649.549	3.0
2250.7598	16.00	-.47	63445.115	1.0	67886.847	2.0
2250.8469	22.00	-3.84	43744.550	4.0	48186.110	4.0
2250.9508	10.00	-1.92	167639.561	1.0	172080.916	1.0
2251.2692	22.00	-3.61	37743.933	3.0	42184.660	4.0
2251.2707	18.00	-4.12	120619.076	2.0	125059.800	2.0
2251.5161	6.00	-4.96	83820.130	1.0	88260.370	2.0
2251.5262	28.01	-4.59	106133.140	1.5	110573.360	2.5
2251.5516	28.01	-2.95	130942.360	1.5	135382.530	1.5
2251.6936	6.00	-2.75	83752.410	1.0	88192.300	1.0
2251.7747	23.00	-3.16	36989.200	2.5	41428.930	2.5
2251.8102	18.01	-3.04	210534.900	4.5	214974.560	3.5
2251.9106	16.00	-.36	63445.115	1.0	67884.577	1.0
2251.9573	22.00	-4.31	44079.840	2.0	48519.210	2.0
2252.0030	25.00	-1.82	52128.650	2.5	56567.930	1.5
2252.1399	22.00	-4.49	44233.650	3.0	48672.660	4.0
2252.1704	18.01	-.70	190592.170	1.5	195031.120	2.5
2252.2059	18.02	-4.36	204727.470	1.0	209166.350	0.0
2252.2150	26.00	-4.31	40894.972	2.0	45333.834	2.0
2252.2227	17.00	-2.10	91173.510	1.5	95612.357	1.5
2252.2871	29.01	-.99	136765.380	4.0	141204.100	3.0
2252.2927	26.00	-3.59	49627.861	4.0	54066.570	4.0
2252.3195	18.00	-4.46	120600.944	2.0	125039.600	1.0
2252.3328	27.00	-3.63	46746.000	2.5	51184.630	3.5
2252.4139	28.01	-4.19	96052.480	2.5	100490.950	1.5
2252.6053	16.00	-.72	63445.115	1.0	67883.208	0.0
2252.6677	23.00	-4.35	38115.650	3.5	42553.620	4.5
2252.6880	27.00	-3.39	48334.370	1.5	52772.300	2.5
2252.6880	22.00	-2.50	42092.520	4.0	46530.450	4.0
2252.8048	15.01	-.37	127934.900	1.0	132372.600	1.0
2252.9012	27.00	-3.06	42269.320	4.5	46706.830	3.5
2252.9632	37.00	-.19	19355.203	0.0	23793.802	0.0
2253.0403	10.00	.22	158601.115	2.0	163038.351	2.0
2253.0479	17.00	-1.39	95534.923	.5	99972.144	.5
2253.1348	28.01	-2.19	113225.060	.5	117662.110	1.5
2253.1571	26.00	-3.72	49108.876	4.0	53545.882	3.0
2253.1805	6.00	-3.92	83761.260	3.0	88198.220	2.0
2253.1896	37.00	-1.15	19355.649	0.0	23793.802	0.0
2253.2211	28.01	-4.31	115565.980	2.5	120002.860	3.5
2253.2414	18.01	-1.06	186074.350	2.5	190511.190	2.5
2253.2724	55.00	-1.60	24317.151	0.0	28755.141	0.0
2253.3552	18.00	-1.70	116660.054	1.0	121096.670	0.0
2253.5868	18.00	-2.86	121653.400	3.0	126089.560	3.0
2253.5868	18.00	-1.55	121653.400	4.0	126089.560	3.0
2253.6122	28.00	-2.82	50138.530	0.0	54574.640	1.0
2253.7534	14.00	.19	53362.240	3.0	57798.072	2.0
2253.8459	27.00	-3.23	49847.080	2.5	54282.730	2.5
2253.9425	21.00	-3.70	37486.480	1.5	41921.940	1.5
2254.0238	26.01	-1.69	83136.500	3.5	87571.800	2.5
2254.0543	18.00	-2.97	121654.320	3.0	126089.560	3.0

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WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2254.1864	18.00	-4.16	121654.580	2.0	126089.560	3.0
2254.2068	22.00	-4.49	43583.140	3.0	48018.080	4.0
2254.2515	22.00	-3.49	37617.868	4.0	42052.720	3.0
2254.2627	9.00	-1.65	129484.660	1.5	133919.490	1.5
2254.3796	30.02	-2.75	260878.800	3.0	265313.400	2.0
2254.5707	17.00	-1.12	94973.683	.5	99407.907	.5
2254.7101	18.01	-1.88	199679.760	2.5	204113.710	1.5
2254.8286	26.00	-3.93	49135.003	3.0	53568.720	2.0
2254.9236	18.01	-4.16	210477.770	3.5	214911.300	2.5
2254.9644	22.00	-1.80	37690.320	5.0	42123.770	6.0
2255.0056	22.00	-4.09	37555.021	3.0	41988.390	3.0
2255.1424	13.01	-.80	140091.200	1.0	144524.300	1.0
2255.1424	13.01	-.49	140091.200	2.0	144524.300	1.0
2255.1424	13.01	-1.19	140091.200	0.0	144524.300	1.0
2255.1663	26.00	-3.52	47271.999	1.0	51705.052	2.0
2255.1882	18.01	-.23	186074.350	2.5	190507.360	1.5
2255.2278	14.00	-1.20	59056.508	1.0	63489.440	2.0
2255.2614	16.00	-.05	63456.192	2.0	67889.058	3.0
2255.4003	22.00	-4.47	37659.927	3.0	42092.520	4.0
2255.4171	24.00	-4.59	30965.460	3.0	35398.020	4.0
2255.4324	28.01	-2.50	123434.600	4.5	127867.130	4.5
2255.5617	10.00	-2.10	167648.640	2.0	172080.916	1.0
2255.7464	26.00	-4.34	44676.963	4.0	49108.876	4.0
2255.7825	7.00	-2.44	111165.158	1.5	115597.000	1.5
2255.7861	10.00	-2.61	167639.561	1.0	172071.396	2.0
2255.8039	27.00	-3.92	47128.960	2.5	51560.760	2.5
2256.1812	17.00	-4.43	90749.360	2.5	95180.419	3.5
2256.3868	16.00	-.25	63456.192	2.0	67886.847	2.0
2256.4546	14.00	-3.18	58774.368	3.0	63204.890	2.0
2256.5351	14.00	-1.47	57017.496	2.0	61447.860	2.0
2256.7327	22.00	-3.56	25388.334	4.0	29818.310	3.0
2256.8759	26.00	-4.96	29371.860	3.0	33801.555	2.0
2256.9446	28.01	-1.76	122790.410	4.5	127219.970	3.5
2256.9553	26.00	-3.15	43325.946	3.0	47755.485	3.0
2257.0063	14.00	-3.03	58775.451	2.0	63204.890	2.0
2257.0975	24.00	-2.81	50557.560	4.0	54986.820	3.0
2257.2504	27.00	-4.68	47612.180	1.5	52041.140	.5
2257.2555	7.00	-3.31	110521.050	1.5	114950.000	1.5
2257.5435	16.00	-.84	63456.192	2.0	67884.577	1.0
2257.5756	16.00	-1.86	76655.408	2.0	81083.730	1.0
2257.7184	14.00	-2.51	60496.358	2.0	64924.400	3.0
2258.3518	29.01	-1.34	115665.400	1.0	120092.200	2.0
2258.3824	28.01	-4.81	130187.810	6.5	134614.550	5.5
2258.5171	28.00	-1.15	49327.560	3.0	53754.036	2.0
2258.5814	16.00	-1.69	76655.380	3.0	81081.730	2.0
2258.5957	16.00	-2.59	76655.408	2.0	81081.730	2.0
2258.8009	7.01	-.05	206910.240	0.0	211336.160	1.0
2258.8570	28.01	-3.25	94396.740	5.5	98822.550	6.5
2258.8774	23.00	-2.86	37075.640	4.5	41501.410	4.5
2258.8977	9.00	-2.92	129484.660	1.5	133910.390	.5
2258.9626	17.00	-2.31	97807.707	2.5	102233.310	2.5
2259.0662	15.00	-3.36	76875.400	1.5	81300.800	1.5
2259.1428	9.00	-3.87	129659.500	3.5	134084.750	2.5
2259.5002	27.00	-4.48	48546.070	1.5	52970.620	2.5
2259.5564	28.01	-1.14	100078.780	1.5	104503.220	2.5
2259.5809	22.00	-4.74	33114.412	2.0	37538.804	2.0
2259.6024	18.02	-2.96	204727.470	1.0	209151.820	2.0
2259.6314	16.00	-2.64	74267.597	2.0	78691.890	1.0
2259.6872	28.00	-1.90	42605.964	3.0	47030.148	3.0
2259.7387	17.00	-1.39	91173.510	1.5	95597.593	.5
2259.7576	16.00	-1.53	76655.374	4.0	81079.420	3.0
2259.7607	16.00	-2.59	76655.380	3.0	81079.420	3.0
2259.7750	16.00	-4.13	76655.408	2.0	81079.420	3.0
2259.7934	14.00	-2.48	58801.524	1.0	63225.500	2.0
2259.8271	28.01	-4.09	116893.980	2.5	121317.890	3.5
2259.9854	8.01	-4.16	248185.300	2.5	252608.900	3.5
2260.0146	16.00	-.72	74267.597	2.0	78691.140	3.0
2260.1183	28.01	-3.97	96052.480	2.5	100475.820	3.5
2260.1694	16.00	-1.47	74268.650	1.0	78691.890	1.0
2260.2497	16.00	-1.47	74267.597	2.0	78690.680	2.0
2260.2665	28.01	-3.21	115827.120	3.5	120250.170	3.5
2260.4167	10.00	-1.79	167648.640	2.0	172071.396	2.0
2260.4453	9.00	-.45	126067.230	.5	130489.930	.5
2260.6550	6.00	-4.11	83838.080	2.0	88260.370	2.0
2260.7546	7.00	-2.49	111060.905	.5	115483.000	.5
2260.7546	7.00	-2.79	111060.905	.5	115483.000	1.5
2260.7878	16.00	-.99	74268.650	1.0	78690.680	2.0
2260.7945	20.00	.53	37748.197	1.0	42170.214	2.0
2260.8032	15.01	-2.20	127950.600	2.0	132372.600	1.0
2260.8236	23.00	-3.54	37940.080	.5	42362.040	.5
2260.8850	25.00	-3.17	57305.620	3.5	61727.460	2.5
2260.8865	26.00	-4.56	46727.055	2.0	51148.892	2.0
2261.0947	25.00	-2.20	44993.920	3.5	49415.350	2.5
2261.1049	28.01	-1.09	101247.370	2.5	105668.780	2.5
2261.2123	30.02	-1.94	260584.100	1.0	265005.300	2.0
2261.2179	16.00	-1.34	74270.701	0.0	78691.890	1.0
2261.3402	7.00	-4.26	110521.050	1.5	114942.000	2.5
2261.4747	22.00	-2.95	29907.273	2.0	34327.960	1.0
2261.4987	9.02	-3.92	440202.480	2.5	444623.120	3.5
2261.5550	23.01	-4.21	44159.430	2.0	48579.960	3.0
2261.5581	18.00	-3.19	120619.076	2.0	125039.600	1.0
2261.6215	27.00	-3.58	44658.030	1.5	49078.430	1.5
2261.7136	23.00	-4.69	32738.140	1.5	37158.360	1.5
2261.7238	30.02	-1.21	258075.700	3.0	262495.900	4.0
2261.8824	9.02	-2.08	440069.510	1.5	444489.400	2.5
2261.9167	10.00	-4.91	167795.897	3.0	172215.720	3.0
2261.9167	10.00	-3.49	167795.897	3.0	172215.720	4.0
2261.9592	28.01	-.94	129842.330	2.5	134262.070	3.5
2261.9597	18.00	-3.12	120229.810	3.0	124649.549	3.0
2261.9987	26.00	-1.33	40257.300	5.0	44676.963	4.0
2262.0718	23.00	-2.83	19189.280	1.5	23608.800	1.5
2262.0872	24.00	-4.03	52963.440	4.0	57382.930	5.0
2262.0929	18.00	-3.50	120230.070	2.0	124649.549	3.0
2262.1384	22.00	-2.69	14105.680	3.0	18525.070	2.0
2262.2602	7.00	-3.28	111198.848	.5	115618.000	1.5
2262.2715	28.01	-4.83	127331.600	2.5	131750.730	3.5
2262.2894	7.00	-2.83	111060.905	.5	115480.000	.5
2262.2894	7.00	-2.22	111060.905	.5	115480.000	1.5
2262.3380	15.00	-3.39	69852.800	.5	74271.800	1.5
2262.3380	13.01	-.08	144780.200	2.0	149199.200	3.0
2262.3739	25.00	-2.03	47299.290	.5	51718.220	1.5
2262.4527	10.00	-3.62	167796.944	2.0	172215.720	3.0
2262.4814	23.00	-3.80	21603.170	4.5	26021.890	3.5
2262.4963	20.00	.30	37751.867	2.0	42170.558	3.0
2262.6724	20.00	-.60	37751.867	2.0	42170.214	2.0
2262.6749	14.00	-1.87	57541.918	1.0	61960.260	0.0
2262.7374	29.01	-.47	116371.410	4.0	120789.630	4.0
2262.7472	28.00	-1.84	42790.027	2.0	47208.228	1.0
2262.8348	14.00	-1.92	58786.860	3.0	63204.890	2.0
2262.8583	7.00	-2.50	111204.016	2.5	115622.000	2.5
2262.9822	10.00	-4.94	167794.968	2.0	172212.710	1.0
2262.9822	10.00	-3.98	167794.968	2.0	172212.710	2.0
2263.2195	26.00	-4.49	47420.000	2.0	51837.279	3.0
2263.2697	22.00	-2.85	15156.787	4.0	19573.968	4.0
2263.4905	28.01	-3.76	116824.150	2.5	121240.900	3.5
2263.4956	22.00	-3.69	37690.320	5.0	42107.060	4.0
2263.5418	23.00	-4.44	37075.640	4.5	41492.290	3.5
2263.7314	21.00	-2.11	11610.240	3.5	16026.520	4.5
2263.9478	17.00	-2.53	95786.752	2.5	100202.610	1.5
2264.0713	18.00	-3.36	120188.340	1.0	124603.957	2.0
2264.0749	27.00	-1.14	44782.130	4.5	49197.740	4.5
2264.1774	6.00	-2.53	81769.790	2.0	86185.200	2.0
2264.2354	18.00	-2.41	120188.660	2.0	124603.957	2.0
2264.4097	16.00	-.35	63474.101	3.0	67889.058	3.0
2264.4405	22.00	-4.90	41341.553	5.0	45756.450	5.0
2264.5554	17.00	-.53	97807.707	2.5	102222.380	3.5
2264.8853	27.00	-3.18	46746.000	2.5	51160.030	2.5
2264.9089	7.00	-2.32	111204.016	2.5	115618.000	1.5
2264.9089	7.00	-1.85	111204.016	2.5	115618.000	2.5
2265.0444	28.01	-.98	129842.330	2.5	134256.050	2.5
2265.1178	20.00	.86	37757.449	3.0	42171.026	4.0
2265.2286	14.00	-2.44	57468.239	2.0	61881.600	1.0
2265.3580	20.00	-.20	37757.449	3.0	42170.558	3.0
2265.3678	18.01	-4.18	206245.570	3.5	210658.660	2.5
2265.4550	27.00	-3.48	48443.760	2.5	52856.680	3.5
2265.5346	20.00	-1.75	37757.449	3.0	42170.214	2.0
2265.5443	16.00	-1.19	63474.101	3.0	67886.847	2.0
2265.6809	21.00	-.88	11610.240	3.5	16022.720	2.5
2265.7425	28.01	-.01	129842.330	2.5	134254.690	1.5
2265.7682	24.00	-3.84	48661.590	3.0	53073.900	3.0
2265.9223	25.00	-4.07	56490.790	2.5	60902.800	3.5
2266.0969	27.00	-4.14	49847.080	2.5	54258.750	2.5
2266.1637	6.00	-2.47	83848.830	3.0	88260.370	2.0
2266.1791	28.01	-4.30	117763.910	1.5	122175.420	2.5
2266.1812	10.00	-.61	158601.115	2.0	163012.621	1.0
2266.3897	18.00	-1.69	121653.400	3.0	126064.500	2.0
2266.4257	19.00	-1.02	30185.240	2.5	34596.270	1.5
2266.4514	23.00	-2.13	37025.600	3.5	41436.580	3.5
2266.4550	17.00	-1.22	97807.707	2.5	102218.680	2.5
2266.4617	28.01	-2.13	112422.190	5.5	116833.150	4.5
2266.5033	26.00	-4.06	49135.003	3.0	53545.882	3.0
2266.5593	28.01	-1.56	101258.010	1.5	105668.780	2.5
2266.5758	14.00	-1.34	53387.334	1.0	57798.072	2.0
2266.6091	17.00	-2.47	97807.707	2.5	102218.380	1.5
2266.6826	19.00	-1.97	30185.740	1.5	34596.270	1.5
2266.6826	19.00	-1.27	30185.740	1.5	34596.270	.5
2266.6878	28.01	.28	129842.330	2.5	134252.850	3.5
2266.9340	26.00	-4.58	33765.291	2.0	38175.332	3.0
2266.9864	55.00	-2.39	24317.151	0.0	28728.293	0.0
2266.9961	18.00	-2.85	121654.580	2.0	126064.500	2.0
2267.1504	24.00	-3.11	37883.340	2.0	42292.960	1.0
2267.1607	28.01	-2.87	93390.060	2.5	97799.660	1.5
2267.2944	24.00	-4.71	52963.440	4.0	57372.780	4.0
2267.3247	28.00	-1.97	44262.619	2.0	48671.900	3.0
2267.5206	25.00	-2.11	57305.620	3.5	61714.520	4.5
2267.6086	7.00	-1.62	111213.271	1.5	115622.000	2.5
2267.6287	26.02	-3.80	201919.530	4.0	206328.220	3.0
2267.7407	13.00	-2.63	38929.405	1.5	43337.877	1.5
2267.8807	30.02	-1.57	260418.100	2.0	264826.300	1.0
2267.8807	15.00	-.91	75353.400	1.5	79761.600	2.5
2267.9836	15.01	-.62	127756.300	2.0	132164.300	2.0
2268.1740	26.02	-2.95	218923.080	3.0	223330.710	3.0
2268.1884	22.00	-4.97	38451.298	2.0	42858.900	3.0
2268.2100	19.00	-1.59	30274.280	.5	34681.840	1.5
2268.2100	19.00	-1.90	30274.280	.5	34681.840	.5
2268.2306	21.00	-3.54	37553.340	2.5	41960.860	2.5
2268.2615	6.00	-2.33	83752.410	1.0	88159.870	0.0
2268.2975	28.01	-1.27	129842.330	2.5	134249.720	1.5
2268.4056	6.00	-1.60	83791.040	2.0	88198.220	2.0
2268.4231	26.00	-2.89	47197.000	2.0	51604.146	3.0
2268.4467	15.00	-3.17	69894.600	1.5	74301.700	2.5
2268.6269	28.01	-.48	133715.130	4.5	138121.880	4.5
2268.7351	17.00	-1.69	91906.790	2.5	96313.330	1.5
2268.8117	7.00	-3.43	111905.609	2.5	116312.000	1.5
2268.9101	18.01	-2.00	204515.000	.5	208921.200	1.5
2269.0445	7.00	-4.44	111853.061	1.5	116259.000	.5
2269.0445	7.00	-3.85	111853.061	1.5	116259.000	1.5
2269.0445	7.00	-3.62	111853.061	1.5	116259.000	2.5
2269.0852	23.00	-2.03	36983.630	1.5	41389.490	1.5
2269.1502	14.00	-1.10	57017.496	2.0	61423.230	3.0
2269.2150	13.00	-1.93	38929.405	1.5	43335.013	.5
2269.2552	15.00	-3.93	68088.270	1.5	72493.800	1.5
2269.3427	25.00	-2.77	57305.620	3.5	61710.980	3.5
2269.4510	7.00	-4.26	110544.850	2.5	114950.000	1.5
2269.4581	26.00	-4.70	46889.126	4.0	51294.262	3.0
2269.5534	10.00	-4.26	167807.759	1.0	172212.710	1.0
2269.6364	26.02	-3.67	218923.080	3.0	223327.870	2.0
2269.6678	7.00	-2.91	111213.271	1.5	115618.000	1.5
2269.6678	7.00	-1.49	111213.271	1.5	115618.000	2.5
2269.7343	15.00	-1.72	76021.600	1.5	80426.200	1.5
2269.7477	14.00	-4.39	59109.959	3.0	63514.533	4.0
2269.8787	18.01	-1.45	190592.170	1.5	194996.490	1.5
2270.0539	25.00	-4.31	58075.060	5.5	62479.040	4.5
2270.0642	23.00	-4.08	37959.660	2.5	42363.620	3.5
2270.0863	26.00	-4.67	46744.975	3.0	51148.892	2.0
2270.0868	13.00	-1.68	38933.961	2.5	43337.877	1.5
2270.1920	10.00	-4.35	166656.508	1.0	171060.220	2.0
2270.2085	26.02	-3.15	218923.080	3.0	223326.760	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2270.2240	28.01	-3.81	116824.150	2.5	121227.800	2.5
2270.3070	22.00	-3.44	37555.021	3.0	41958.510	2.0
2270.3374	18.01	-2.90	206255.230	2.5	210658.660	2.5
2270.3889	23.00	-4.88	37025.600	3.5	41428.930	2.5
2270.3941	18.01	-4.18	206255.230	2.5	210658.550	1.5
2270.4560	15.00	-1.53	75905.100	2.5	80308.300	2.5
2270.5282	22.00	-4.13	43467.550	2.0	47870.610	2.0
2270.6725	15.00	-1.33	65450.020	1.5	69852.800	.5
2270.6725	9.02	-1.09	453152.390	2.5	457555.170	1.5
2270.7669	18.00	-1.48	120207.320	5.0	124609.917	4.0
2270.7736	16.00	.24	63474.101	3.0	67876.685	4.0
2270.9991	18.00	-3.12	120207.770	4.0	124609.917	4.0
2271.2349	28.01	-3.06	115870.280	2.5	120271.970	2.5
2271.3741	10.01	-2.30	302839.280	2.5	307240.700	3.5
2271.3845	18.01	-1.51	203344.980	1.5	207746.380	2.5
2271.3886	10.00	-4.93	166656.508	1.0	171057.900	1.0
2271.4567	6.00	-1.90	83791.040	2.0	88192.300	1.0
2271.7304	9.02	-1.41	440069.510	1.5	444470.240	1.5
2271.7809	7.00	-1.80	111501.368	1.5	115902.000	2.5
2271.8335	14.02	-.13	250366.220	3.0	254766.750	2.0
2271.9007	26.01	-.91	83136.500	3.5	87536.900	3.5
2271.9575	23.00	-2.79	36989.200	2.5	41389.490	1.5
2272.0339	22.00	-1.89	37617.868	4.0	42018.010	5.0
2272.1557	17.00	-.61	92194.190	1.5	96594.096	.5
2272.2053	18.00	-3.91	121653.400	3.0	126053.210	2.0
2272.2725	18.01	-3.81	201720.670	1.5	206120.350	2.5
2272.3293	18.02	-3.46	204727.470	1.0	209127.040	1.0
2272.4176	18.00	-2.40	120250.150	3.0	124649.549	3.0
2272.4176	18.00	-2.51	120250.150	4.0	124649.549	3.0
2272.4218	7.00	-2.99	111905.609	2.5	116305.000	1.5
2272.6806	18.00	-1.66	121654.320	3.0	126053.210	2.0
2272.7922	17.00	-1.54	95786.752	2.5	100185.426	2.5
2272.8149	18.00	-3.00	121654.580	2.0	126053.210	2.0
2272.8666	28.01	-2.95	115870.280	2.5	120268.810	3.5
2272.8986	17.00	-4.61	95786.752	2.5	100185.220	1.5
2273.0319	29.01	-4.77	110084.290	1.0	114482.500	2.0
2273.0619	7.00	-2.00	111198.848	.5	115597.000	1.5
2273.1405	8.03	-1.77	592046.000	3.5	596444.000	2.5
2273.2170	26.00	-4.02	49433.108	2.0	53830.960	3.0
2273.2438	24.00	-4.94	52963.440	4.0	57361.240	3.0
2273.3679	17.00	-2.40	95313.749	1.5	99711.309	.5
2273.5049	26.00	-3.09	46137.140	3.0	50534.435	3.0
2273.5178	28.01	-4.26	117872.780	2.5	122270.050	3.5
2273.5541	13.01	-3.01	142179.800	1.0	146577.000	0.0
2273.5541	13.01	-2.62	142179.800	1.0	146577.000	1.0
2273.5541	13.01	-2.31	142179.800	1.0	146577.000	2.0
2273.5798	7.00	-3.12	110544.850	2.5	114942.000	2.5
2273.8902	23.00	-7.96	13801.530	1.5	18198.080	2.5
2274.0919	22.00	-4.14	44375.570	5.0	48771.730	5.0
2274.3314	14.00	-3.07	60487.103	1.0	64882.800	2.0
2274.5938	27.00	-3.02	46872.740	3.5	51267.930	4.5
2274.6404	15.00	-1.65	65585.000	2.5	69980.100	3.5
2274.7490	24.00	-2.88	31106.370	4.0	35501.260	3.0
2274.9188	10.00	-3.28	167867.178	0.0	172261.740	1.0
2275.0027	15.00	-2.91	75905.100	2.5	80299.500	1.5
2275.1000	14.00	-1.19	57541.918	1.0	61936.130	1.0
2275.3807	18.01	-3.61	210438.500	4.5	214832.170	3.5
2275.4480	14.02	-2.18	240549.770	2.0	244943.310	2.0
2275.6671	17.00	-1.33	97149.323	.5	101542.440	1.5
2275.7360	7.00	-2.96	111204.016	2.5	115597.000	1.5
2275.8935	26.01	-4.92	96357.070	3.5	100749.750	2.5
2275.9919	18.01	-.58	186340.480	1.5	190732.970	.5
2276.1106	7.00	-4.31	110710.739	2.5	115103.000	2.5
2277.0095	17.00	-.60	97842.783	1.5	102233.310	2.5
2277.4800	18.01	-.80	210584.880	1.5	214974.500	2.5
2277.6143	7.00	-3.44	110710.739	2.5	115100.100	2.5
2277.9056	15.00	-3.57	77843.900	2.5	82232.700	2.5
2278.1028	6.00	-4.06	83747.390	2.0	88135.810	3.0
2278.3540	12.00	-2.45	54192.294	2.0	58580.230	1.0
2278.3997	7.00	-3.99	110715.152	3.5	115103.000	2.5
2278.4298	7.01	-2.24	205350.180	2.0	209737.970	3.0
2278.5119	7.00	-2.06	111501.368	1.5	115889.000	.5
2278.5753	26.00	-.14	49737.110	5.0	54124.620	4.0
2278.7456	10.00	-4.94	166656.508	1.0	171043.690	2.0
2278.8718	7.00	-2.59	111853.061	1.5	116240.000	1.5
2278.8718	7.00	-3.90	111853.061	1.5	116240.000	2.5
2279.0511	14.00	-1.48	59917.336	2.0	64303.930	3.0
2279.0532	26.00	-3.84	49850.610	3.0	54237.200	4.0
2279.1300	14.00	-2.54	60496.358	2.0	64882.800	2.0
2279.1347	7.00	-3.15	111143.567	.5	115530.000	.5
2279.1347	7.00	-3.19	111143.567	.5	115530.000	1.5
2279.2236	12.00	.01	54192.256	3.0	58578.518	4.0
2279.2407	26.00	-3.19	42991.680	5.0	47377.909	4.0
2279.2906	14.00	-1.90	59128.400	5.0	63514.533	4.0
2279.4636	13.01	-2.45	121480.900	2.0	125866.700	1.0
2279.5510	7.00	-2.96	111501.368	1.5	115887.000	.5
2279.5510	7.00	-2.12	111501.368	1.5	115887.000	1.5
2279.5510	7.00	-2.10	111501.368	1.5	115887.000	2.5
2279.6196	13.01	-2.93	121481.200	1.0	125866.700	1.0
2279.7236	18.01	-4.84	187589.230	2.5	191974.530	1.5
2279.7964	18.01	-4.13	210447.010	3.5	214832.170	3.5
2279.8504	26.00	-3.18	46313.610	2.0	50698.666	2.0
2280.1136	18.01	-4.14	206245.570	3.5	210630.120	3.5
2280.1500	18.01	-3.99	206245.570	3.5	210630.050	2.5
2280.2009	26.00	-3.89	48531.896	3.0	52916.278	2.0
2280.2435	13.01	-.65	142958.900	1.0	147343.200	2.0
2280.2955	18.01	-4.85	210527.100	2.5	214911.300	2.5
2280.5406	7.00	-1.64	111213.271	1.5	115597.000	1.5
2280.5832	17.00	-2.12	97149.323	.5	101532.970	1.5
2280.6128	14.02	.39	240549.770	2.0	244933.360	1.0
2280.7835	12.00	-2.60	54192.256	3.0	58575.518	2.0
2280.7835	12.00	-1.43	54192.256	3.0	58575.518	3.0
2280.7997	12.00	-1.30	54192.256	3.0	58575.487	3.0
2280.8033	12.00	-1.23	54192.294	2.0	58575.518	2.0
2280.8033	12.00	-1.25	54192.294	2.0	58575.518	3.0
2280.8195	12.00	-.31	54192.294	2.0	58575.487	3.0
2280.8252	12.00	-.32	54192.336	1.0	58575.518	2.0
2280.8741	17.00	-1.02	95786.752	2.5	100169.840	3.5
2280.8887	6.00	-1.27	83877.310	1.0	88260.370	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2281.0343	18.01	-.48	201720.670	1.5	206103.450	1.5
2281.0344	25.00	-3.81	53103.190	1.5	57485.970	2.5
2281.1072	28.01	-.51	122837.330	4.5	127219.970	3.5
2281.1171	14.00	-3.76	59131.912	4.0	63514.533	4.0
2281.2254	26.00	-2.06	46720.824	4.0	51103.237	5.0
2281.2254	55.00	-.65	22588.890	0.0	26972.499	0.0
2281.3623	18.01	-2.85	195297.610	1.5	199679.760	2.5
2281.4612	14.01	-1.67	122163.740	1.5	126545.700	.5
2281.6487	15.00	-4.37	72493.800	1.5	76875.400	1.5
2281.9195	28.01	-4.18	117763.910	1.5	122144.990	2.5
2281.9680	17.00	-.85	94973.683	.5	99354.670	1.5
2282.1065	20.00	-.79	37298.287	2.0	41679.008	1.0
2282.1174	23.00	-5.00	32846.740	2.5	37227.440	2.5
2282.1174	23.00	-4.37	32846.740	2.5	37227.440	2.5
2282.2565	7.00	-2.43	111143.567	.5	115524.000	.5
2282.2565	7.00	-1.58	111143.567	.5	115524.000	1.5
2282.3675	26.00	-3.82	46600.800	1.0	50981.020	0.0
2282.4263	18.00	-3.71	120229.810	3.0	124609.917	4.0
2282.4644	14.00	-3.06	59917.336	2.0	64297.370	3.0
2282.5843	26.00	-3.29	49460.876	5.0	53840.680	6.0
2282.6906	15.00	-4.02	75956.700	3.5	80336.300	2.5
2282.7609	17.00	-2.32	95786.752	2.5	100166.217	3.5
2282.8991	15.00	-.82	75484.400	2.5	79863.600	3.5
2282.9565	6.00	-1.42	85399.810	2.0	89778.900	3.0
2283.2432	23.00	-4.83	32738.140	1.5	37116.680	.5
2283.2683	26.00	-2.23	41130.620	1.0	45509.112	1.0
2283.2849	27.00	-1.64	45105.590	3.5	49484.050	3.5
2283.3110	9.00	-.68	125637.690	2.5	130016.100	2.5
2283.3475	23.00	-4.22	37940.080	.5	42318.420	1.5
2283.3475	28.01	-3.82	101754.800	2.5	106133.140	1.5
2283.4780	6.00	-3.37	83820.130	1.0	88198.220	2.0
2283.5248	13.01	-3.30	134181.200	3.0	138559.200	4.0
2283.5248	13.01	-1.74	134181.200	4.0	138559.200	4.0
2283.5248	13.01	-1.87	134181.200	4.0	138559.200	4.0
2283.5248	13.01	-.21	134181.200	5.0	138559.200	4.0
2283.8900	30.02	-.74	260878.800	3.0	265256.100	3.0
2283.9422	15.00	-3.35	69894.600	1.5	74271.800	1.5
2283.9954	26.00	-4.56	44551.325	3.0	48928.423	2.0
2284.0466	15.00	-3.52	69924.700	2.5	74301.700	2.5
2284.0988	15.01	-1.76	127756.300	2.0	132133.200	3.0
2284.1457	22.00	-2.42	41780.950	4.0	46157.760	5.0
2284.1578	14.00	-1.04	57198.027	3.0	61574.814	3.0
2284.1718	25.00	-3.23	53109.210	2.5	57485.970	2.5
2284.2396	10.01	.16	303518.210	1.5	307894.840	2.5
2284.3754	28.01	-3.84	115827.120	3.5	120203.490	2.5
2284.5487	14.00	-3.02	59110.892	2.0	63486.930	1.0
2284.5738	10.01	-4.13	277344.290	2.5	281720.280	1.5
2284.6051	24.00	-4.88	48661.590	3.0	53037.520	2.0
2284.6222	17.00	-1.76	97842.783	1.5	102218.680	2.5
2284.7789	17.00	-1.51	97842.783	1.5	102218.380	1.5
2284.8296	23.00	-3.20	21646.390	3.5	26021.890	3.5
2284.8870	28.01	-3.81	116786.420	.5	121161.810	1.5
2285.1325	22.00	-4.13	43744.550	4.0	48119.470	5.0
2285.1482	18.01	-2.87	206255.230	2.5	210630.120	3.5
2285.3252	17.00	-3.36	95597.593	.5	99972.144	.5
2285.3257	6.00	-2.56	83761.260	3.0	88135.810	3.0
2285.4720	23.01	-3.58	32299.240	1.0	36673.510	2.0
2285.5363	18.00	-1.80	120229.810	3.0	124603.957	2.0
2285.5661	27.00	-2.20	27497.060	2.5	31871.150	3.5
2285.6722	18.00	-2.93	120230.070	2.0	124603.957	2.0
2285.7693	14.00	-.64	57468.239	2.0	61841.940	2.0
2285.9319	6.00	-3.46	85399.810	2.0	89773.200	3.0
2286.0145	17.00	-2.04	94827.150	2.5	99200.382	3.5
2286.0992	22.00	-3.79	43467.550	2.0	47840.620	3.0
2286.1044	6.00	-4.01	85399.810	2.0	89772.870	2.0
2286.2037	9.02	-4.30	440202.480	2.5	444575.350	2.5
2286.3293	14.00	-1.17	59118.030	3.0	63490.660	3.0
2286.3815	23.00	-7.88	13801.530	1.5	18174.060	1.5
2286.4652	28.01	-3.60	51045.460	4.5	55417.830	3.5
2286.4652	28.01	-1.53	122847.600	3.5	127219.970	3.5
2286.5698	6.00	-2.35	83820.130	1.0	88192.300	1.0
2286.7596	22.00	-2.05	34327.960	1.0	38699.767	2.0
2286.9673	14.00	-2.45	59118.030	3.0	63489.440	2.0
2287.1886	18.00	-1.88	119683.113	2.0	124054.100	3.0
2287.2446	14.00	-1.19	59118.030	3.0	63488.910	4.0
2287.3022	24.00	-2.31	37883.340	2.0	42254.110	3.0
2287.3388	13.01	-2.06	138799.300	0.0	143170.000	1.0
2287.4320	22.00	-3.83	37617.868	4.0	41988.390	3.0
2287.4958	30.02	-4.43	258075.700	3.0	262446.100	3.0
2287.5482	30.02	-2.46	257566.100	1.0	261936.400	1.0
2287.7157	14.00	-3.44	59118.030	3.0	63488.010	3.0
2287.7639	18.00	-3.60	117563.020	0.0	121932.908	1.0
2287.7733	28.01	-3.54	109038.840	1.5	113408.710	1.5
2287.7837	27.00	-4.10	48546.070	1.5	52915.920	.5
2287.7880	7.00	-2.82	111165.158	1.5	115535.000	2.5
2287.9670	13.01	.10	134917.300	1.0	139286.800	2.0
2288.1974	28.01	-4.91	110573.360	2.5	114942.420	1.5
2288.2215	26.00	-2.29	47092.693	3.0	51461.707	4.0
2288.2289	8.03	-1.78	591962.000	2.5	596331.000	3.5
2288.2865	26.02	-3.71	201892.440	5.0	206261.330	4.0
2288.3336	25.00	-3.87	58110.240	4.5	62479.040	4.5
2288.4384	21.00	-4.83	37553.340	2.5	41921.940	1.5
2288.4908	19.00	-1.68	30274.280	.5	34642.780	1.5
2288.4908	19.00	-1.99	30274.280	.5	34642.780	.5
2288.5065	28.01	-3.75	109038.840	1.5	113407.310	2.5
2288.5484	27.00	-3.89	48334.370	1.5	52702.760	1.5
2288.6804	17.00	-3.25	95313.749	1.5	99681.887	1.5
2288.8051	21.00	-2.77	37717.110	3.5	42085.010	4.5
2288.8365	26.00	-.54	50045.900	2.0	54413.740	3.0
2288.9068	22.00	-3.92	37538.804	2.0	41906.510	2.0
2289.0331	22.00	-2.57	18037.225	4.0	22404.690	3.0
2289.1982	18.01	-.95	201781.790	2.5	206148.940	3.5
2289.4870	18.00	-2.40	120188.340	1.0	124554.939	1.0
2289.5285	28.01	-2.28	131834.940	2.5	136201.460	3.5
2289.6549	18.00	-2.23	120188.660	2.0	124554.939	1.0
2289.7644	28.01	-2.74	132912.150	2.5	137278.220	1.5
2289.8971	22.00	-4.96	37622.573	3.0	41988.390	3.0
2289.9816	26.00	-3.48	44166.240	3.0	48531.896	3.0
2290.1473	23.00	-2.58	32660.260	2.5	37025.600	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2290.2108	17.00	-1.30	90948.530	1.5	95313.749	1.5
2290.2339	17.00	-2.73	95400.731	2.5	99765.906	2.5
2290.4087	7.00	-3.41	111165.158	1.5	115530.000	.5
2290.4087	7.00	-2.25	111165.158	1.5	115530.000	1.5
2290.5456	12.00	-2.99	54676.438	3.0	59041.019	2.0
2290.6563	6.00	-.60	73975.910	0.0	78340.280	1.0
2290.6878	9.00	-.88	129607.070	.5	133971.380	1.5
2290.6884	12.00	-1.83	54676.710	3.0	59041.019	2.0
2290.6884	12.00	-3.43	54676.710	2.0	59041.019	2.0
2290.8432	55.00	-1.55	24472.046	0.0	28837.251	0.0
2290.9382	55.00	-2.85	24472.227	0.0	28837.251	0.0
2290.9608	18.01	-2.72	206245.570	3.5	210609.360	3.5
2291.0080	18.01	-2.53	206245.570	3.5	210609.270	4.5
2291.1708	23.00	-3.62	20767.570	3.5	25130.960	2.5
2291.2916	23.00	-8.38	13810.900	.5	18174.060	1.5
2291.3089	22.00	-3.99	37743.933	3.0	42107.060	4.0
2291.3578	17.00	-1.83	91343.500	2.5	95706.534	1.5
2291.7118	14.01	-2.47	122163.740	1.5	126526.100	1.5
2291.7433	14.01	-1.51	122163.800	2.5	126526.100	1.5
2291.8274	25.00	-2.05	52128.650	2.5	56490.790	2.5
2291.8857	22.00	-1.99	37555.021	3.0	41917.050	4.0
2291.9640	25.00	-2.86	53124.090	3.5	57485.970	2.5
2292.1637	26.01	-.85	82978.900	4.5	87340.400	5.5
2292.2094	17.00	-1.63	91173.510	1.5	95534.923	.5
2292.3529	25.00	-4.16	50099.160	1.5	54460.300	2.5
2292.3597	7.00	-2.37	111260.873	3.5	115622.000	2.5
2292.4580	23.00	-3.75	37075.640	4.5	41436.580	3.5
2292.8786	6.00	-2.22	83838.080	2.0	88198.220	2.0
2293.0642	17.00	-2.32	95612.357	1.5	99972.144	.5
2293.0674	16.00	-.56	73910.309	1.0	78270.090	1.0
2293.0674	16.00	-.92	73910.309	1.0	78270.090	0.0
2293.0748	18.00	-3.97	120250.150	3.0	124609.917	4.0
2293.0748	18.00	-2.43	120250.150	4.0	124609.917	4.0
2293.2510	37.00	-.41	19355.649	0.0	23716.271	0.0
2293.3147	16.00	-.67	73910.309	1.0	78269.620	2.0
2293.4572	14.00	-2.06	49028.294	0.0	53387.334	1.0
2293.5325	26.00	-3.97	34636.820	2.0	38995.717	1.0
2293.5614	7.00	-2.66	111165.158	1.5	115524.000	.5
2293.5614	7.00	-2.63	111165.158	1.5	115524.000	1.5
2293.5614	7.00	-1.63	111165.158	1.5	115524.000	2.5
2293.6040	28.00	-4.37	45418.858	2.0	49777.619	3.0
2293.6130	14.00	-1.42	57798.072	2.0	62156.816	2.0
2293.6309	24.00	-2.92	50628.110	3.0	54986.820	3.0
2293.7993	29.01	-.59	116326.160	3.0	120684.550	3.0
2293.9466	23.00	-3.84	38003.930	1.5	42362.040	.5
2293.9519	13.01	-2.06	138811.900	1.0	143170.000	1.0
2293.9519	13.01	-1.85	138811.900	1.0	143170.000	0.0
2293.9519	13.01	-3.15	138811.900	1.0	143170.000	2.0
2293.9519	13.01	-1.58	138811.900	2.0	143170.000	1.0
2293.9519	13.01	-1.97	138811.900	2.0	143170.000	2.0
2293.9519	13.01	-1.22	138811.900	3.0	143170.000	2.0
2294.4642	7.00	-2.56	111260.873	3.5	115618.000	2.5
2294.7033	55.00	-1.63	24472.227	0.0	28830.089	0.0
2294.7417	28.01	-1.15	113407.310	2.5	117763.910	1.5
2294.7781	26.00	-4.59	47693.289	3.0	52049.820	2.0
2294.7944	15.00	-2.06	76192.300	1.5	80548.800	2.5
2294.9988	16.00	-1.04	73913.978	2.0	78270.090	1.0
2295.0947	6.00	-2.83	85169.610	0.0	89525.540	1.0
2295.1579	28.01	-3.75	116838.330	1.5	121194.140	2.5
2295.2464	16.00	-.25	73913.978	2.0	78269.620	3.0
2295.2464	16.00	-.45	73913.978	2.0	78269.620	2.0
2295.3213	30.02	-.91	257566.100	1.0	261921.600	2.0
2295.4209	14.00	-1.02	57468.239	2.0	61823.550	2.0
2295.4562	26.00	-4.59	47106.463	4.0	51461.707	4.0
2295.4794	28.01	-3.78	113408.710	1.5	117763.910	1.5
2295.4794	19.00	-1.07	30185.240	2.5	34540.440	1.5
2295.4794	13.01	-1.49	134181.200	3.0	138536.400	3.0
2295.4794	13.01	-.54	134181.200	4.0	138536.400	3.0
2295.4794	13.01	-.70	134181.200	4.0	138536.400	3.0
2295.5532	27.00	-3.39	48615.560	2.5	52970.620	2.5
2295.5953	28.01	-4.94	130184.390	2.5	134539.370	2.5
2295.6164	26.00	-2.39	43022.969	4.0	47377.909	4.0
2295.6227	18.00	-1.35	118906.665	2.0	123261.593	2.0
2295.7429	19.00	-2.03	30185.740	1.5	34540.440	1.5
2295.7430	24.00	-2.66	37883.340	2.0	42238.040	2.0
2295.7799	22.00	-4.36	44233.650	3.0	48588.280	3.0
2295.8004	14.00	-1.22	58311.659	0.0	62666.250	1.0
2295.8537	19.00	-1.33	30185.740	1.5	34540.230	.5
2295.8906	28.01	-1.56	101144.630	3.5	105499.050	3.5
2295.9012	18.01	-4.54	210477.770	3.5	214832.170	3.5
2295.9960	6.00	-1.90	83838.080	2.0	88192.300	1.0
2296.0435	18.01	-4.29	206255.230	2.5	210609.360	3.5
2296.2966	22.00	-4.09	43583.140	3.0	47936.790	3.0
2296.3062	7.00	-3.11	111501.368	1.5	115855.000	.5
2296.3062	7.00	-2.41	111501.368	1.5	115855.000	1.5
2296.3062	7.00	-2.45	111501.368	1.5	115855.000	2.5
2296.3125	27.00	-1.81	43847.980	3.5	48201.600	3.5
2296.3346	22.00	-1.57	15220.390	5.0	19573.968	4.0
2296.4332	7.00	-4.51	111905.609	2.5	116259.000	1.5
2296.4332	7.00	-2.22	111905.609	2.5	116259.000	2.5
2296.4897	14.00	-0.00	56503.346	2.0	60856.630	1.0
2296.8453	28.01	-3.75	115870.280	2.5	120222.890	1.5
2296.9034	15.00	-4.14	77843.300	1.5	82195.800	1.5
2297.1936	6.00	-2.54	83740.060	0.0	88092.010	1.0
2297.2068	18.00	-1.83	116660.054	1.0	121011.979	1.0
2297.2126	17.00	-3.36	96594.096	.5	100946.010	.5
2297.2200	15.00	-4.34	77843.900	2.5	82195.800	1.5
2297.5210	22.01	-5.50	25193.040	2.5	29544.370	2.5
2297.6952	17.01	-2.96	146330.000	1.0	150681.000	2.0
2297.8980	28.00	-1.87	49403.420	1.0	53754.036	2.0
2298.0121	29.01	-4.97	111218.800	4.0	115569.200	5.0
2298.0438	25.00	-2.45	41403.930	2.5	45754.270	3.5
2298.0913	28.01	-3.39	132927.970	1.5	137278.220	1.5
2298.1426	17.00	-2.79	97184.277	3.5	101534.430	4.5
2298.1548	10.01	-2.14	302890.570	2.5	307240.700	3.5
2298.4300	16.00	-.54	73920.011	3.0	78269.620	3.0
2298.4300	16.00	-1.39	73920.011	3.0	78269.620	2.0
2298.4348	9.02	-1.93	440202.480	2.5	444552.080	3.5
2298.5457	6.00	-1.56	83848.830	3.0	88198.220	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
2298.5589	28.00	-2.19	42790.027	2.0	47139.392	2.0
2298.6409	21.00	-1.07	11677.310	4.5	16026.520	4.5
2298.6519	16.00	.04	73920.011	3.0	78269.200	4.0
2298.7360	28.01	-3.76	117763.910	1.5	122112.940	.5
2298.7624	10.01	-1.68	303071.840	2.5	307420.820	2.5
2298.8930	17.00	-3.32	97184.277	3.5	101533.010	2.5
2298.9421	6.00	-2.47	83747.390	2.0	88096.030	2.0
2299.0743	10.01	-4.29	302961.070	1.5	307309.460	.5
2299.1087	18.00	-2.35	118906.665	2.0	123254.990	1.0
2299.1277	26.00	-3.67	44183.607	2.0	48531.896	3.0
2299.3705	24.00	-3.06	48824.500	4.0	53172.330	5.0
2299.5926	56.01	-.07	61336.000	0.0	65684.596	0.0
2299.7036	17.01	-1.96	146333.800	2.0	150681.000	2.0
2299.7566	15.00	-3.59	69924.700	2.5	74271.800	1.5
2299.8180	12.00	-1.56	54706.536	1.0	59053.520	0.0
2299.8465	28.01	-4.60	131233.320	4.5	135580.250	4.5
2299.8518	28.01	-3.98	116893.980	2.5	121240.900	3.5
2299.9047	28.01	-4.03	72985.650	1.5	77332.470	2.5
2299.9360	7.00	-4.30	110710.739	2.5	115057.500	1.5
2300.0582	24.00	-4.47	50628.110	3.0	54974.640	2.0
2300.1248	7.00	-4.06	111271.596	.5	115618.000	.5
2300.1248	7.00	-3.00	111271.596	.5	115618.000	1.5
2300.6457	22.00	-4.94	11531.760	2.0	15877.180	2.0
2300.8548	14.00	-2.96	59273.575	1.0	63618.600	0.0
2300.9475	29.01	.36	133594.050	3.0	137938.900	4.0
2300.9899	6.00	-1.85	83791.040	2.0	88135.810	3.0
2301.0694	6.00	-2.76	83747.390	2.0	88092.010	1.0
2301.3183	27.00	-3.77	48571.770	.5	52915.920	.5
2301.4826	9.00	-.88	125877.280	1.5	130221.120	1.5
2301.5037	15.00	-4.61	75956.700	3.5	80300.500	3.5
2301.5355	28.01	-3.99	115565.980	2.5	119909.720	1.5
2301.5991	6.00	-2.31	83752.410	1.0	88096.030	2.0
2301.7687	19.02	-2.27	241039.000	1.5	245382.300	.5
2301.8746	15.00	-1.15	75353.400	1.5	79696.500	1.5
2302.0538	17.00	-4.04	92140.127	1.5	96482.889	2.5
2302.1079	23.02	-4.15	155801.600	1.5	160144.260	1.5
2302.1397	29.01	-.99	116576.810	0.0	120919.410	1.0
2302.2722	25.00	-3.98	58136.690	3.5	62479.040	4.5
2302.3762	26.00	-4.49	47008.351	5.0	51350.505	4.0
2302.5639	26.02	-4.78	201919.530	4.0	206261.330	4.0
2302.6912	26.00	-4.86	49227.160	3.0	53568.720	2.0
2302.8768	25.00	-1.50	52015.000	3.5	56356.210	3.5
2302.9453	12.00	-4.99	43503.333	0.0	47844.414	1.0
2302.9882	13.01	-2.34	121365.200	0.0	125706.200	1.0
2303.1835	7.00	-2.90	111501.368	1.5	115842.000	.5
2303.1835	7.00	-3.41	111501.368	1.5	115842.000	1.5
2303.2201	16.00	-2.30	76653.817	4.0	80994.380	4.0
2303.2212	16.00	-1.44	76653.819	5.0	80994.380	4.0
2303.2344	16.00	-3.48	76653.844	3.0	80994.380	4.0
2303.4552	6.00	-3.43	83497.620	2.0	87837.740	1.0
2303.4552	6.00	-1.52	83497.620	2.0	87837.740	2.0
2303.5067	17.00	-3.06	97184.277	3.5	101524.300	2.5
2303.5704	17.00	-4.15	97184.277	3.5	101524.180	3.5
2303.6569	6.00	-2.15	83820.130	1.0	88159.870	0.0
2303.6781	15.00	-.57	65585.000	2.5	69924.700	2.5
2303.6876	14.00	-1.95	57541.918	1.0	61881.600	1.0
2303.7311	6.00	-3.52	83752.410	1.0	88092.010	1.0
2303.7986	55.00	-1.77	22631.830	0.0	26972.487	0.0
2303.8198	7.00	-2.39	111143.567	.5	115483.000	.5
2303.8198	7.00	-2.69	111143.567	.5	115483.000	1.5
2303.8767	55.00	-.47	22631.830	0.0	26972.340	0.0
2303.9011	17.00	-.54	90487.870	3.5	94827.150	2.5
2304.0497	24.00	-2.37	53011.650	1.0	57350.650	2.0
2304.0763	22.00	-2.28	42311.310	3.0	46650.260	3.0
2304.0975	18.01	-.94	204929.400	.5	209268.310	1.5
2304.1395	14.00	-2.64	50189.389	2.0	54528.220	2.0
2304.2834	18.01	-.25	201781.790	2.5	206120.350	2.5
2304.3631	18.00	-2.38	120188.340	1.0	124526.750	0.0
2304.7031	18.01	-1.91	204585.640	2.5	208923.410	2.5
2304.8465	13.01	-.42	134181.200	3.0	138518.700	2.0
2304.8555	17.00	-3.49	97184.277	3.5	101521.760	3.5
2304.9634	27.00	-4.91	46375.170	1.5	50712.450	2.5
2304.9847	6.00	-1.28	83798.570	4.0	88135.810	3.0
2305.0809	17.00	-1.51	97184.277	3.5	101521.336	4.5
2305.0910	28.01	-3.69	96052.480	2.5	100389.520	2.5
2305.2451	28.01	-4.80	133445.750	4.5	137782.500	4.5
2305.4137	7.00	-2.13	111143.567	.5	115480.000	.5
2305.4137	7.00	-3.52	111143.567	.5	115480.000	1.5
2305.4546	7.00	-2.80	111285.644	1.5	115622.000	2.5
2305.5800	18.01	.31	214667.480	2.5	219003.600	2.5
2305.5907	18.01	-2.52	186171.260	.5	190507.360	1.5
2305.7577	22.00	-5.01	11639.804	3.0	15975.590	3.0
2305.8300	27.00	-3.80	47225.110	3.5	51560.760	2.5
2305.8779	18.01	-3.05	204585.640	2.5	208921.200	1.5
2305.9736	29.01	-2.50	118532.150	2.0	122867.530	1.0
2306.2725	17.00	-3.73	92151.380	.5	96486.198	1.5
2306.2981	6.00	-1.57	83761.260	3.0	88096.030	2.0
2306.3000	2.00	-1.22	190940.000	0.0	195275.949	0.0
2306.4237	26.00	-4.72	47420.000	2.0	51754.534	1.0
2306.4508	12.00	-2.77	54706.536	1.0	59041.019	2.0
2306.4998	7.00	-3.24	111905.609	2.5	116240.000	1.5
2306.4998	7.00	-2.50	111905.609	2.5	116240.000	2.5
2306.5322	26.02	-4.89	114351.920	3.0	118686.250	4.0
2306.5376	18.01	-.76	214667.480	2.5	219001.800	1.5
2306.5482	26.01	-.79	83136.500	3.5	87470.800	4.5
2306.8037	28.01	-3.93	116893.980	2.5	121227.800	2.5
2307.0006	6.00	-2.07	85188.950	1.0	89522.400	2.0
2307.0619	26.00	-3.95	47017.170	3.0	51350.505	4.0
2307.0965	23.00	-4.50	32988.820	3.5	37322.090	3.5
2307.1284	28.01	-3.70	115870.280	2.5	120203.490	2.5
2307.5832	7.00	-1.78	111285.644	1.5	115618.000	.5
2307.5832	7.00	-1.79	111285.644	1.5	115618.000	1.5
2307.5832	7.00	-2.12	111285.644	1.5	115618.000	2.5
2307.6524	22.00	-3.82	37852.434	4.0	42184.660	4.0
2307.7196	14.00	-2.01	58893.400	3.0	63225.500	2.0
2307.7409	24.00	-2.65	50654.760	2.0	54986.820	3.0
2308.0392	30.02	-.12	260981.900	3.0	265313.400	2.0
2308.2246	7.00	-2.17	111198.848	.5	115530.000	.5
2308.2246	7.00	-1.71	111198.848	.5	115530.000	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2308.3094	7.00	-4.56	112294.007	.5	116625.000	1.5
2308.3142	7.00	-2.60	111204.016	2.5	115535.000	2.5
2308.3142	7.00	-2.42	111204.016	2.5	115535.000	3.5
2308.5375	26.00	-4.11	46888.494	2.0	51219.059	3.0
2308.5722	13.01	.21	138518.700	2.0	142849.200	3.0
2308.5882	22.00	-3.95	43583.140	3.0	47913.610	4.0
2308.8547	18.01	-1.04	196076.390	1.5	200406.360	.5
2308.8921	13.01	-1.19	142958.900	1.0	147288.800	0.0
2309.1588	6.00	-1.29	83497.620	2.0	87827.020	2.0
2309.2014	6.00	-1.04	83497.620	2.0	87826.940	3.0
2309.2260	22.00	-5.25	11776.806	4.0	16106.080	4.0
2309.4041	23.00	-2.98	32660.260	2.5	36989.200	2.5
2309.4255	28.01	-3.66	115870.280	2.5	120199.180	1.5
2309.4255	22.00	-4.98	37690.320	5.0	42019.220	6.0
2309.6175	27.00	-4.38	48443.760	2.5	52772.300	2.5
2309.7830	18.01	-1.09	214832.170	3.5	219160.400	2.5
2310.0509	10.00	-.35	159379.993	0.0	163707.721	1.0
2310.2185	14.00	-1.52	56978.256	1.0	61305.670	1.0
2310.5250	27.00	-3.46	46872.740	3.5	51199.580	3.5
2310.5821	14.00	-3.92	49060.601	1.0	53387.334	1.0
2310.8294	22.00	-2.51	34327.960	1.0	38654.230	1.0
2310.8775	26.02	-3.26	219004.530	4.0	223330.710	3.0
2310.9523	26.00	-4.71	49242.680	2.0	53568.720	2.0
2310.9576	17.00	-2.16	97674.330	2.5	102000.360	1.5
2310.9822	7.00	-3.04	111204.016	2.5	115530.000	1.5
2311.0254	22.00	-3.43	37659.927	3.0	41985.830	3.0
2311.0548	26.00	-4.22	49242.872	3.0	53568.720	2.0
2311.2921	7.00	-2.55	111271.596	.5	115597.000	1.5
2311.4267	7.00	-2.84	111198.848	.5	115524.000	.5
2311.4267	7.00	-1.85	111198.848	.5	115524.000	1.5
2311.5780	18.00	-2.56	120230.070	2.0	124554.939	1.0
2311.6469	23.00	-7.98	13801.530	1.5	18126.270	1.5
2311.6683	30.02	.11	258171.200	5.0	262495.900	4.0
2311.9784	21.00	-1.99	11557.640	2.5	15881.760	3.5
2311.9891	27.00	-2.21	44394.470	3.5	48718.570	2.5
2312.0960	13.01	-2.01	142958.900	1.0	147282.800	1.0
2312.0960	13.01	-1.53	142958.900	1.0	147282.800	2.0
2312.1923	24.00	-2.24	53037.520	2.0	57361.240	3.0
2312.3206	28.01	-3.70	116838.330	1.5	121161.810	1.5
2312.3260	7.01	-.23	205350.180	2.0	209673.650	2.0
2312.3794	23.00	-4.12	32660.260	2.5	36983.630	1.5
2312.6629	28.01	-4.05	95017.710	4.5	99340.550	3.5
2312.6886	22.00	-4.38	28791.620	1.0	33114.412	2.0
2312.9626	6.00	-.32	83497.620	2.0	87819.900	3.0
2312.9893	26.02	-2.93	219004.530	4.0	223326.760	4.0
2313.1178	19.00	-1.76	30274.280	.5	34596.270	1.5
2313.1178	19.00	-2.06	30274.280	.5	34596.270	.5
2313.1553	9.02	-2.22	464921.740	3.5	469243.660	4.5
2313.1612	14.00	-2.63	58775.451	2.0	63097.360	1.0
2313.1660	6.00	-3.43	85203.640	2.0	89525.540	1.0
2313.2569	18.01	.34	185093.230	4.5	189414.960	3.5
2313.2574	7.00	-2.37	111213.271	1.5	115535.000	2.5
2313.2730	14.02	-.06	240549.770	2.0	244871.470	1.0
2313.2944	18.01	-1.51	201781.790	2.5	206103.450	1.5
2313.3120	18.00	-1.59	107496.463	1.0	111818.090	1.0
2313.3265	15.00	-2.71	69980.100	3.5	74301.700	2.5
2313.3319	27.00	-4.26	50105.050	1.5	54426.640	1.5
2313.3907	6.00	-1.95	85188.950	1.0	89510.430	2.0
2313.4443	18.00	-4.86	120753.520	3.0	125074.900	2.0
2313.5085	25.00	-4.97	47466.660	1.5	51787.920	.5
2313.5128	14.00	-1.92	59034.988	3.0	63356.240	2.0
2313.5300	6.00	-3.64	83740.060	0.0	88061.280	1.0
2313.6959	6.00	-2.85	83877.310	1.0	88198.220	2.0
2313.7548	25.01	-2.31	114932.200	4.0	119253.000	3.0
2313.7548	25.01	-1.14	114932.200	4.0	119253.000	4.0
2313.7548	25.01	-.27	114932.200	4.0	119253.000	5.0
2313.7848	17.00	-2.00	97667.396	3.5	101988.140	2.5
2314.1919	7.00	-1.55	111204.016	2.5	115524.000	3.5
2314.2262	27.00	-3.28	48443.760	2.5	52763.680	3.5
2314.2476	24.00	-4.73	50654.760	2.0	54974.640	2.0
2314.3333	26.00	-.45	49804.900	3.0	54124.620	4.0
2314.8477	6.00	-1.95	85203.640	2.0	89522.400	2.0
2314.9389	23.00	-8.59	13801.530	1.5	18120.120	.5
2315.0032	6.00	-2.36	84851.530	1.0	89170.000	1.0
2315.0140	9.00	-4.17	129772.830	2.5	134091.280	1.5
2315.1748	28.01	-2.38	116732.510	2.5	121050.660	2.5
2315.3222	26.00	-4.61	47452.702	4.0	51770.577	3.0
2315.3356	27.00	-3.62	49025.420	1.5	53343.270	1.5
2315.3399	7.00	-2.39	111165.158	1.5	115483.000	.5
2315.3399	7.00	-1.89	111165.158	1.5	115483.000	1.5
2315.3399	7.00	-2.96	111165.158	1.5	115483.000	2.5
2315.4525	22.00	-4.30	28772.860	0.0	33090.492	1.0
2315.4697	30.02	-.38	258178.300	4.0	262495.900	4.0
2315.4804	6.00	-3.07	73975.910	0.0	78293.490	1.0
2315.5394	28.01	-4.75	115592.250	1.5	119909.720	1.5
2315.8725	22.00	-4.25	37555.021	3.0	41871.870	2.0
2315.9369	7.00	-2.48	111213.271	1.5	115530.000	.5
2315.9369	7.00	-2.75	111213.271	1.5	115530.000	1.5
2316.1419	20.00	-1.80	42518.708	1.0	46835.055	0.0
2316.1456	28.01	-3.53	117763.910	1.5	122080.250	2.5
2316.1993	25.00	-4.91	58110.240	4.5	62426.480	3.5
2316.2808	22.00	-4.90	38764.832	3.0	43080.920	2.0
2316.2894	22.00	-2.53	41928.528	2.0	46244.600	2.0
2316.4327	26.00	-2.09	41018.029	2.0	45333.834	2.0
2316.4880	22.00	-3.02	29855.248	1.0	34170.950	0.0
2316.6018	6.00	-3.62	85203.640	2.0	89519.130	3.0
2316.6662	23.00	-9.69	13810.900	.5	18126.270	1.5
2316.7543	22.00	-4.20	37538.804	2.0	41854.010	1.0
2316.8703	6.00	-4.42	83877.310	1.0	88192.300	1.0
2316.9497	7.00	-2.13	111165.158	1.5	115480.000	.5
2316.9497	7.00	-2.71	111165.158	1.5	115480.000	1.5
2317.0582	24.00	-4.97	50890.150	2.0	55204.790	3.0
2317.1226	22.00	-4.22	38544.380	3.0	42858.900	3.0
2317.1387	23.00	-3.43	38003.930	1.5	42318.420	1.5
2317.1710	28.01	-2.91	100332.090	4.5	104646.520	3.5
2317.2934	13.00	-1.64	42233.722	1.5	46547.924	2.5
2317.3536	27.00	-2.92	49197.740	4.5	53511.830	5.5
2317.3670	18.00	-3.43	118906.665	2.0	123220.730	2.0
2317.4610	6.00	-1.79	83747.390	2.0	88061.280	1.0
2317.5040	17.00	-3.32	97674.330	2.5	101988.140	2.5
2317.5309	28.01	-4.21	134527.240	3.5	138841.000	3.5
2317.6947	22.00	-2.86	15108.121	3.0	19421.576	3.0
2317.8264	6.00	-2.00	84851.530	1.0	89164.740	1.0
2317.8640	29.01	-1.61	116371.410	4.0	120684.550	3.0
2317.8694	24.00	-2.94	53037.520	2.0	57350.650	2.0
2317.9715	6.00	-1.35	83947.430	3.0	88260.370	2.0
2318.0467	13.01	-.84	138536.400	3.0	142849.200	3.0
2318.0467	13.01	.14	138536.400	3.0	142849.200	4.0
2318.0467	13.01	-.09	138536.400	3.0	142849.200	4.0
2318.1655	14.00	-.41	56503.346	2.0	60815.925	2.0
2318.2187	28.01	-1.32	99340.550	3.5	103653.030	3.5
2318.2510	9.00	-1.49	129607.070	.5	133919.490	1.5
2318.4123	28.01	-.99	133809.760	3.5	138121.880	4.5
2318.4230	28.01	-4.20	115956.710	2.5	120268.810	3.5
2318.5090	7.01	-.09	197858.690	1.0	202170.630	1.0
2318.5198	9.00	-2.56	129772.830	2.5	134084.750	2.5
2318.5241	18.00	-2.92	114147.750	1.0	118459.662	1.0
2318.6005	27.00	-3.70	42434.230	2.5	46746.000	2.5
2318.6811	23.00	-4.13	32846.740	2.5	37158.360	1.5
2318.7618	28.00	-1.76	46522.965	2.0	50834.435	2.0
2318.8231	7.00	-2.59	111285.644	1.5	115597.000	1.5
2318.8634	17.00	-.49	91089.450	3.5	95400.731	2.5
2318.9070	27.00	-1.95	28470.510	1.5	32781.710	2.5
2319.0474	7.00	-4.90	111853.061	1.5	116164.000	.5
2319.0474	7.00	-2.52	111853.061	1.5	116164.000	1.5
2319.0474	7.00	-3.26	111853.061	1.5	116164.000	2.5
2319.1603	7.00	-3.15	111213.271	1.5	115524.000	.5
2319.1603	7.00	-3.51	111213.271	1.5	115524.000	1.5
2319.1603	7.00	-2.18	111213.271	1.5	115524.000	2.5
2319.1921	6.00	-4.11	84851.530	1.0	89162.200	2.0
2319.2448	26.00	-4.73	49850.610	3.0	54161.182	3.0
2319.4757	13.00	-1.49	42237.781	2.5	46547.924	3.5
2319.4757	13.00	-2.79	42237.781	2.5	46547.924	2.5
2319.5204	28.01	-2.19	116732.510	2.5	121042.570	1.5
2319.7680	15.00	-1.21	65585.000	2.5	69894.600	1.5
2319.9725	23.00	-8.31	13810.900	.5	18120.120	.5
2320.0371	25.01	-2.01	114943.900	3.0	119253.000	2.0
2320.0371	25.01	-.99	114943.900	3.0	119253.000	3.0
2320.0371	25.01	-.44	114943.900	3.0	119253.000	4.0
2320.0511	28.00	-1.50	46522.965	2.0	50832.039	3.0
2320.0748	28.01	-4.31	133445.750	4.5	137754.780	5.5
2320.1610	6.00	-3.32	83752.410	1.0	88061.280	1.0
2320.2056	22.00	-4.96	37743.933	3.0	42052.720	3.0
2320.2794	28.01	-4.46	116838.330	1.5	121146.980	2.5
2320.8288	9.00	-1.76	126067.230	.5	130374.860	1.5
2320.8450	15.00	-4.52	76762.400	.5	81070.000	1.5
2320.9528	25.00	-3.37	59116.600	2.5	63424.000	3.5
2321.0282	6.00	-1.47	85203.640	2.0	89510.900	3.0
2321.2815	6.00	-2.98	85203.640	2.0	89510.430	2.0
2321.5564	18.00	-4.71	120753.520	3.0	125059.800	2.0
2321.6103	9.00	-3.18	129659.500	3.5	133965.680	2.5
2321.7402	7.00	-2.20	111853.061	1.5	116159.000	2.5
2321.7828	28.01	-4.44	134583.070	6.5	138888.930	6.5
2321.8627	14.00	-2.52	59034.988	3.0	63340.700	3.0
2321.8691	29.01	-2.26	134675.600	2.0	138981.300	2.0
2322.2224	17.00	-1.70	95897.565	1.5	100202.610	1.5
2322.2521	6.00	-4.08	83791.040	2.0	88096.030	2.0
2322.3330	26.02	-4.14	219004.530	4.0	223309.370	5.0
2322.3546	13.01	-1.24	144964.700	3.0	149269.500	2.0
2322.3546	13.01	-2.67	144964.700	3.0	149269.500	3.0
2322.3546	13.01	-4.10	144964.700	3.0	149269.500	4.0
2322.3546	13.01	-1.74	144964.700	4.0	149269.500	3.0
2322.3546	13.01	-.72	144964.700	4.0	149269.500	3.0
2322.3546	13.01	-2.53	144964.700	4.0	149269.500	4.0
2322.3546	13.01	-2.67	144964.700	4.0	149269.500	4.0
2322.3546	13.01	-1.01	144964.700	5.0	149269.500	4.0
2322.3627	17.00	-2.65	95897.565	1.5	100202.350	.5
2322.3923	27.00	-3.16	49484.050	3.5	53788.780	4.5
2322.4625	27.00	-4.58	41918.410	3.5	46223.010	4.5
2322.6297	28.01	-3.61	116786.420	.5	121090.710	.5
2322.9714	14.00	-1.81	59037.043	4.0	63340.700	3.0
2323.1532	9.00	-3.13	129607.070	.5	133910.390	.5
2323.5204	28.01	-4.34	117872.780	2.5	122175.420	2.5
2323.5204	28.01	-2.73	101366.140	2.5	105668.780	2.5
2323.7375	22.00	-4.63	31829.972	4.0	36132.210	4.0
2323.8990	7.00	-2.88	111853.061	1.5	116155.000	1.5
2323.8990	7.00	-4.63	111853.061	1.5	116155.000	.5
2323.9579	6.00	-2.02	84032.150	1.0	88333.980	0.0
2324.0660	28.01	-4.11	134539.370	2.5	138841.000	3.5
2324.1270	26.00	-3.16	48928.423	2.0	53229.940	1.0
2324.3524	25.01	-2.02	114951.900	2.0	119253.000	1.0
2324.3524	25.01	-1.02	114951.900	2.0	119253.000	2.0
2324.3524	25.01	-.64	114951.900	2.0	119253.000	3.0
2324.5956	22.00	-3.23	41943.950	1.0	46244.600	2.0
2324.6880	28.00	-1.57	49403.420	1.0	53703.899	1.0
2324.8118	27.00	-4.85	48334.370	1.5	52634.620	.5
2324.9351	14.00	-.56	57541.918	1.0	61841.940	2.0
2324.9632	25.00	-3.44	57485.970	2.5	61785.940	3.5
2325.1416	9.00	-2.48	125637.690	2.5	129937.330	1.5
2325.1908	14.00	-1.57	57295.881	0.0	61595.430	1.0
2325.3823	26.00	-4.93	47005.455	5.0	51304.650	4.0
2325.3893	22.00	-4.28	37617.868	4.0	41917.050	4.0
2325.3985	18.00	-2.36	118906.665	2.0	123205.830	3.0
2325.5527	24.00	-2.10	53073.900	3.0	57372.780	4.0
2325.5570	22.00	-4.67	28791.620	1.0	33090.492	1.0
2325.7799	21.00	-3.62	37717.110	3.5	42015.570	3.5
2325.8286	26.00	-.14	49502.530	5.0	53800.900	5.0
2326.0299	10.00	-.10	158601.115	2.0	162899.113	2.0
2326.1154	26.02	-4.18	202030.380	3.0	206328.220	3.0
2326.1208	15.00	-2.16	68088.270	1.5	72386.100	2.5
2326.1262	6.00	-2.08	84851.530	1.0	89149.350	1.0
2326.1425	10.01	-2.07	304440.240	.5	308738.030	1.5
2326.1749	6.00	-3.10	83838.080	2.0	88135.810	3.0
2326.3536	27.00	-3.85	46872.740	3.5	51170.140	4.5
2326.4240	18.01	-3.66	210534.900	4.5	214832.170	3.5
2326.8138	29.01	-1.38	116388.000	2.0	120684.550	3.0
2326.8409	25.01	-1.17	114956.500	1.0	119253.000	1.0
2326.8409	25.01	-.87	114956.500	1.0	119253.000	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2326.8571	14.00	-3.23	59190.460	1.0	63486.930	1.0
2326.8847	17.00	-4.22	97703.941	2.5	102000.360	1.5
2326.9817	28.01	-2.28	115870.280	2.5	120166.520	1.5
2327.1886	14.00	-1.82	59191.072	2.0	63486.930	1.0
2327.2688	28.01	-2.98	132982.510	1.5	137278.220	1.5
2327.4584	29.01	-.97	117928.480	1.0	122223.840	0.0
2327.5441	7.00	-1.51	111326.798	2.5	115622.000	2.5
2327.7077	25.01	-1.17	114958.100	0.0	119253.000	1.0
2327.9191	26.02	-4.23	202030.380	3.0	206324.890	2.0
2327.9370	22.00	-4.96	37622.573	3.0	41917.050	4.0
2328.2064	27.00	-4.65	42796.670	1.5	47090.650	2.5
2328.4488	22.00	-4.34	28791.620	1.0	33085.153	0.0
2328.4667	26.01	-1.65	83308.400	2.5	87601.900	1.5
2328.4884	28.01	-4.21	115956.710	2.5	120250.170	3.5
2328.5964	7.00	-2.99	110710.739	2.5	115004.000	3.5
2328.7162	24.00	-3.98	48824.500	4.0	53117.540	4.0
2328.7542	15.01	-3.70	103630.600	2.0	107923.570	2.0
2328.8122	26.00	-4.97	50586.857	3.0	54879.720	2.0
2329.2762	17.00	-2.80	92194.190	1.5	96486.198	1.5
2329.4705	24.00	-3.47	31106.370	4.0	35398.020	4.0
2329.5519	28.01	-3.83	134597.430	5.5	138888.930	6.5
2329.5845	28.01	-3.35	116824.150	2.5	121115.590	1.5
2329.7137	7.00	-1.83	111326.798	2.5	115618.000	1.5
2329.7137	7.00	-2.06	111326.798	2.5	115618.000	2.5
2329.7528	6.00	-2.38	84851.530	1.0	89142.660	2.0
2330.1491	15.00	-.38	76045.900	2.5	80336.300	2.5
2330.2219	26.00	-4.78	47377.909	4.0	51668.175	4.0
2330.3447	24.00	-4.72	44534.460	4.0	48824.500	4.0
2330.3664	13.01	-2.62	138559.200	4.0	142849.200	3.0
2330.3664	13.01	-1.06	138559.200	4.0	142849.200	4.0
2330.3664	13.01	-1.20	138559.200	4.0	142849.200	4.0
2330.3664	13.01	.47	138559.200	4.0	142849.200	5.0
2330.4805	25.00	-4.36	58136.690	3.5	62426.480	3.5
2330.5239	18.01	-2.46	196103.310	4.5	200393.020	4.5
2330.5620	18.00	-1.86	119847.810	1.0	124137.450	2.0
2330.7793	23.00	-4.68	38115.650	3.5	42404.690	3.5
2330.8521	26.00	-2.89	32873.623	4.0	37162.729	3.0
2330.9923	7.00	-3.95	110715.152	3.5	115004.000	3.5
2331.0734	17.00	-2.42	92194.190	1.5	96482.889	2.5
2331.2902	26.00	-4.84	46410.366	1.0	50698.666	2.0
2331.3587	14.00	-2.23	57017.496	2.0	61305.670	1.0
2331.5290	17.00	-1.31	95897.565	1.5	100185.426	2.5
2331.6409	17.00	-4.57	95897.565	1.5	100185.220	1.5
2331.8122	24.00	-2.79	53073.900	3.0	57361.240	3.0
2331.8939	19.00	-1.14	30185.240	2.5	34472.430	1.5
2332.0010	7.00	-4.96	112294.007	.5	116581.000	.5
2332.0080	6.00	-2.14	83848.830	3.0	88135.810	3.0
2332.0407	9.02	-1.28	440202.480	2.5	444489.400	2.5
2332.1604	15.00	-2.48	76021.600	1.5	80308.300	2.5
2332.1658	19.00	-2.09	30185.740	1.5	34472.430	1.5
2332.3019	19.00	-1.39	30185.740	1.5	34472.180	.5
2332.5168	26.00	-3.85	46137.140	3.0	50423.185	4.0
2332.5946	22.00	-4.36	28828.510	2.0	33114.412	2.0
2332.6392	27.00	-4.04	45924.980	3.5	50210.800	4.5
2332.8112	12.00	-1.61	54192.256	3.0	58477.760	2.0
2332.8319	12.00	-2.53	54192.294	2.0	58477.760	2.0
2332.8548	12.00	-3.54	54192.336	1.0	58477.760	2.0
2333.0573	26.00	-3.79	47420.000	2.0	51705.052	2.0
2333.0856	8.03	-1.01	592046.000	3.5	596331.000	3.5
2333.1733	26.00	-4.00	49108.876	4.0	53393.715	4.0
2333.2218	29.01	-2.80	136919.350	3.0	141204.100	3.0
2333.2348	12.00	-2.06	54192.294	2.0	58477.020	1.0
2333.2577	12.00	-2.36	54192.336	1.0	58477.020	1.0
2333.3547	18.00	-3.16	121068.804	1.0	125353.310	1.0
2333.3579	17.00	-4.04	97703.640	1.5	101988.140	2.5
2333.4379	12.00	-2.24	54192.336	1.0	58476.689	0.0
2333.4723	23.00	-8.13	13801.530	1.5	18085.820	.5
2333.5218	17.00	-3.04	97703.941	2.5	101988.140	2.5
2333.5474	7.00	-2.19	111198.848	.5	115483.000	.5
2333.5474	7.00	-3.09	111198.848	.5	115483.000	1.5
2333.6520	28.01	-4.79	132927.970	1.5	137211.930	.5
2334.1696	23.00	-3.88	18805.050	.5	23088.060	1.5
2334.3773	17.00	-1.90	97259.811	1.5	101542.440	1.5
2334.4149	6.00	-3.79	83877.310	1.0	88159.870	0.0
2334.6057	6.00	-2.49	85169.610	0.0	89451.820	1.0
2334.6057	55.00	-.35	21765.650	0.0	26049.029	0.0
2334.6112	27.00	-4.41	50578.730	3.5	54860.930	4.5
2334.8424	11.00	.28	30266.990	.5	34548.766	1.5
2334.9208	14.00	-1.93	57541.918	1.0	61823.550	2.0
2335.1805	17.00	-2.27	95400.731	2.5	99681.887	1.5
2335.1827	7.00	-2.53	111198.848	.5	115480.000	.5
2335.1827	7.00	-2.52	111198.848	.5	115480.000	1.5
2335.2928	18.01	-.15	203730.860	1.5	208011.610	1.5
2336.1649	26.00	-4.32	46600.800	1.0	50880.152	1.0
2336.2424	27.00	-3.70	42811.440	3.5	47090.650	2.5
2336.3659	7.00	-1.60	111204.016	2.5	115483.000	1.5
2336.3659	7.00	-2.01	111204.016	2.5	115483.000	2.5
2336.5689	26.00	-3.61	49460.876	5.0	53739.488	5.0
2336.5919	18.01	-.37	186890.950	2.5	191169.520	1.5
2336.7885	22.00	-1.70	40302.950	3.0	44581.160	2.0
2336.9578	15.00	-2.76	76021.600	1.5	80299.500	1.5
2336.9578	15.00	-1.40	75905.100	2.5	80183.000	2.5
2337.2993	10.00	-.03	159379.993	0.0	163657.268	1.0
2337.3070	7.00	-3.21	110710.739	2.5	114988.000	3.5
2337.3403	15.00	-1.72	75484.400	2.5	79761.600	2.5
2337.3567	27.00	-4.98	50712.450	2.5	54989.620	3.5
2337.3993	26.00	-4.09	47017.170	3.0	51294.262	3.0
2337.5862	24.00	-4.19	53073.900	3.0	57350.650	2.0
2337.6682	23.00	-4.71	37757.240	.5	42033.840	1.5
2337.8945	11.00	-.42	30272.580	1.5	34548.766	1.5
2337.9137	11.00	.53	30272.580	1.5	34548.731	2.5
2338.0050	7.00	-2.42	111204.016	2.5	115480.000	1.5
2338.0061	17.00	-3.30	96313.330	1.5	100589.312	2.5
2338.0307	28.00	-4.01	47030.148	3.0	51306.085	3.0
2338.0509	6.00	-3.36	83820.130	1.0	88096.030	2.0
2338.0564	28.01	-4.70	68709.760	.5	72985.650	1.5
2338.2270	14.00	-3.28	57372.297	2.0	61647.875	2.0
2338.5087	14.00	-3.35	57372.297	2.0	61647.360	1.0
2338.5432	15.01	-1.53	127889.300	3.0	132164.300	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2338.7073	13.01	.39	135012.100	1.0	139286.800	2.0
2338.8824	28.01	-2.57	134614.550	5.5	138888.930	6.5
2338.9601	28.00	-1.73	50458.187	1.0	54732.425	2.0
2338.9808	30.02	-1.05	260981.900	3.0	265256.100	3.0
2339.0208	7.00	-4.53	111260.873	3.5	115535.000	2.5
2339.0208	7.00	-2.47	111260.873	3.5	115535.000	3.5
2339.0903	18.01	-4.13	196119.020	3.5	200393.020	4.5
2339.1231	28.01	-3.03	118563.390	3.5	122837.330	4.5
2339.2540	17.00	-1.50	91127.030	2.5	95400.731	2.5
2339.3476	22.00	-4.24	43744.550	4.0	48018.080	4.0
2339.4735	30.02	-1.58	257962.500	2.0	262235.800	3.0
2339.5288	17.00	-3.15	97259.811	1.5	101533.010	2.5
2339.5507	17.00	-1.43	97259.811	1.5	101532.970	1.5
2339.6706	27.00	-3.43	48443.760	2.5	52716.700	3.5
2339.7209	7.00	-3.32	110715.152	3.5	114988.000	3.5
2339.8567	27.00	-4.34	42434.230	2.5	46706.830	3.5
2339.9417	17.00	-3.26	95897.565	1.5	100170.010	2.5
2340.0156	9.00	-3.96	129659.500	3.5	133931.810	2.5
2340.2511	6.00	-4.95	83820.130	1.0	88092.010	1.0
2340.3004	9.00	-1.02	125877.280	1.5	130149.070	.5
2340.4484	21.00	-1.23	11610.240	3.5	15881.760	3.5
2340.6226	14.00	-3.68	56690.903	2.0	60962.105	2.0
2340.7443	28.01	-4.78	129782.070	3.5	134053.050	2.5
2340.7668	7.00	-2.86	111853.061	1.5	116124.000	.5
2340.7668	7.00	-4.16	111853.061	1.5	116124.000	1.5
2340.8045	17.00	-4.41	97674.330	2.5	101945.200	1.5
2341.1499	28.01	-4.81	131223.020	2.5	135493.260	1.5
2341.1499	6.00	-4.70	83791.040	2.0	88061.280	1.0
2341.1707	7.00	-3.99	111326.798	2.5	115597.000	1.5
2341.2102	10.00	-2.35	168586.860	0.0	172856.990	1.0
2341.2266	13.01	-1.84	142958.900	1.0	147229.000	1.0
2341.4301	7.00	-2.49	111213.271	1.5	115483.000	.5
2341.4301	7.00	-2.40	111213.271	1.5	115483.000	1.5
2341.4680	18.01	-4.74	203007.690	1.5	207277.350	1.5
2341.7751	18.01	-.64	190592.170	1.5	194861.270	2.5
2341.8244	26.00	-3.57	43108.899	4.0	47377.909	4.0
2341.9083	17.00	-1.39	91343.500	2.5	95612.357	1.5
2341.9286	6.01	-1.23	177774.590	.5	182043.410	1.5
2342.0494	15.00	-3.62	72493.800	1.5	76762.400	.5
2342.4741	18.00	-2.72	120600.944	2.0	124868.770	3.0
2342.4884	30.02	-1.48	258178.300	4.0	262446.100	3.0
2342.5038	22.00	-3.13	37824.748	4.0	42092.520	4.0
2342.5104	9.02	-1.94	440202.480	2.5	444470.240	1.5
2342.5104	6.00	-2.84	82251.710	0.0	86519.470	1.0
2342.5433	30.02	.03	260988.400	4.0	265256.100	3.0
2342.5669	17.00	-3.51	95400.731	2.5	99668.388	3.5
2343.0764	7.00	-2.83	111213.271	1.5	115480.000	.5
2343.0764	7.00	-1.82	111213.271	1.5	115480.000	1.5
2343.1247	14.00	-2.91	57328.789	1.0	61595.430	1.0
2343.3889	19.00	-1.84	30274.280	.5	34540.440	1.5
2343.4438	25.00	-4.56	47452.160	.5	51718.220	1.5
2343.5042	19.00	-2.14	30274.280	.5	34540.230	.5
2343.5064	18.00	-3.38	121068.804	1.0	125334.750	0.0
2343.6856	6.00	-1.18	83497.620	2.0	87763.240	3.0
2343.6911	17.00	-3.67	95706.534	1.5	99972.144	.5
2343.7503	14.00	-3.12	60381.278	1.0	64646.780	2.0
2343.7927	18.00	-1.40	118906.665	2.0	123172.090	1.0
2343.8119	24.00	-1.97	53117.540	4.0	57382.930	5.0
2344.1422	22.00	-1.69	15156.787	4.0	19421.576	3.0
2344.2461	6.00	-3.21	83497.620	2.0	87762.220	2.0
2344.3011	6.00	-.88	83497.620	2.0	87762.120	3.0
2344.3071	17.00	-1.10	97259.811	1.5	101524.300	2.5
2344.3726	9.00	.04	125877.280	1.5	130141.650	1.5
2344.4341	22.00	-3.94	41457.620	3.0	45721.878	4.0
2344.4408	18.00	-2.09	120600.944	2.0	124865.190	2.0
2344.5232	18.00	-1.97	120600.944	2.0	124865.040	3.0
2344.5760	15.01	-.94	127368.000	2.0	131632.000	3.0
2344.6970	18.01	-3.19	151087.250	2.5	155351.030	1.5
2344.8125	9.00	-2.66	129659.500	3.5	133923.070	3.5
2344.9059	26.01	-1.24	83308.400	2.5	87571.800	2.5
2345.0203	20.00	-.91	42743.002	1.0	47006.194	2.0
2345.0561	7.00	-4.63	111260.873	3.5	115524.000	2.5
2345.0561	7.00	-1.49	111260.873	3.5	115524.000	3.5
2345.1810	13.01	-2.77	144990.000	4.0	149252.900	4.0
2345.1810	13.01	-2.91	144990.000	4.0	149252.900	4.0
2345.1810	13.01	-1.14	144990.000	5.0	149252.900	4.0
2345.1810	13.01	-4.24	144990.000	5.0	149252.900	4.0
2345.1810	13.01	-1.14	144990.000	5.0	149252.900	4.0
2345.1810	13.01	-4.52	144990.000	4.0	149252.900	5.0
2345.1810	13.01	-2.78	144990.000	5.0	149252.900	5.0
2345.1810	13.01	-2.89	144990.000	5.0	149252.900	5.0
2345.1810	13.01	-1.06	144990.000	6.0	149252.900	5.0
2345.1810	13.01	-1.24	144990.000	4.0	149252.900	3.0
2345.1974	6.00	-2.54	85168.950	1.0	89451.820	1.0
2345.2470	28.01	-2.31	114052.040	3.5	118314.820	2.5
2345.2910	28.01	-2.52	135746.060	3.5	140008.760	3.5
2345.2965	18.01	-1.34	186470.280	1.5	190732.970	.5
2345.3405	22.00	-.62	41895.150	5.0	46157.760	5.0
2345.6861	22.00	-4.41	28828.510	2.0	33090.492	1.0
2345.7560	14.00	-1.48	56700.250	1.0	60962.105	2.0
2345.8028	29.01	-1.39	118484.000	3.0	122745.770	2.0
2345.9162	20.00	-.74	42744.716	2.0	47006.280	3.0
2345.9635	20.00	-1.64	42744.716	2.0	47006.194	2.0
2346.0505	17.00	-4.29	97739.040	.5	102000.360	1.5
2346.1193	7.00	-4.66	112319.805	1.5	116581.000	.5
2346.1193	7.00	-4.39	112319.805	1.5	116581.000	1.5
2346.2047	17.00	-3.24	97739.320	1.5	102000.360	1.5
2346.2818	30.02	-2.02	230606.000	0.0	234866.900	1.0
2346.2928	26.02	-3.68	201919.530	4.0	206180.410	3.0
2346.6161	26.00	-4.58	48036.667	2.0	52296.960	2.0
2346.7169	28.01	-4.15	135746.060	3.5	140006.170	4.5
2346.9185	18.00	-3.67	114147.750	1.0	118407.494	1.0
2347.0419	24.00	-4.35	44050.870	4.0	48310.390	5.0
2347.1962	25.00	-2.20	45156.110	2.5	49415.350	2.5
2347.3213	20.00	-.58	42747.387	3.0	47006.400	4.0
2347.3285	27.00	-4.72	48443.760	2.5	52702.760	1.5
2347.3874	20.00	-1.64	42747.387	3.0	47006.280	3.0
2347.4348	20.00	-3.18	42747.387	3.0	47006.194	2.0
2347.4552	22.00	-4.60	41965.830	3.0	46244.600	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2347.4872	26.00	-4.13	49135.003	3.0	53393.715	4.0
2347.5269	18.01	-4.54	196621.880	3.5	200880.520	3.5
2347.5545	24.00	-4.57	50950.420	3.0	55209.010	4.0
2347.6317	6.00	-2.77	85188.950	1.0	89447.400	2.0
2347.6570	7.00	-2.52	111271.596	.5	115530.000	.5
2347.6570	7.00	-1.71	111271.596	.5	115530.000	1.5
2347.6642	7.00	-3.60	111905.609	2.5	116164.000	1.5
2347.6642	7.00	-2.83	111905.609	2.5	116164.000	2.5
2347.6642	7.00	-3.09	111905.609	2.5	116164.000	3.5
2347.8025	9.01	-.19	256262.460	1.0	260520.600	0.0
2347.9073	6.00	-2.77	83838.080	2.0	88096.030	2.0
2347.9834	26.00	-4.10	47092.693	3.0	51350.505	4.0
2348.0342	26.00	-4.78	54013.780	5.0	58271.500	5.0
2348.0452	30.02	-1.34	257678.700	2.0	261936.400	1.0
2348.1665	22.00	-4.91	43583.140	3.0	47840.620	3.0
2348.4313	28.01	-1.66	100389.520	2.5	104646.520	3.5
2348.5968	10.01	-4.29	276511.820	.5	280768.520	.5
2348.7072	10.01	-.46	303518.210	1.5	307774.710	1.5
2348.7204	18.00	-3.55	120600.944	2.0	124857.420	2.0
2348.8032	18.00	-3.85	120600.944	2.0	124857.270	1.0
2348.8175	30.02	-1.83	258239.600	4.0	262495.900	4.0
2348.9003	28.01	-1.75	116786.420	.5	121042.570	1.5
2348.9279	28.01	-4.91	116786.420	.5	121042.520	1.5
2348.9831	26.00	-3.75	43499.485	4.0	47755.485	3.0
2349.4026	24.00	-2.80	53117.540	4.0	57372.780	4.0
2349.4948	26.00	-4.28	40421.890	4.0	44676.963	4.0
2349.6456	28.01	-1.53	113407.310	2.5	117662.110	1.5
2349.7229	18.01	-4.15	199879.320	3.5	204133.980	2.5
2349.7417	22.00	-4.05	37852.434	4.0	42107.060	4.0
2349.7560	15.00	.41	76045.900	2.5	80300.500	3.5
2349.8831	24.00	-3.78	50950.420	3.0	55204.790	3.0
2349.9461	12.00	-2.28	56308.381	2.0	60562.637	2.0
2349.9461	12.00	-2.26	56308.381	2.0	60562.637	3.0
2349.9461	12.00	-1.26	56308.381	2.0	60562.637	3.0
2349.9825	28.01	-3.75	51045.460	4.5	55299.650	4.5
2350.1211	7.00	-3.74	111853.061	1.5	116107.000	1.5
2350.1211	7.00	-3.25	111853.061	1.5	116107.000	.5
2350.1261	6.00	-2.58	83838.080	2.0	88092.010	1.0
2350.4190	28.01	-1.46	113408.710	1.5	117662.110	1.5
2350.4239	7.00	-2.96	111905.609	2.5	116159.000	2.5
2350.4239	7.00	-2.13	111905.609	2.5	116159.000	3.5
2350.7339	10.01	-1.36	302816.980	1.5	307069.810	1.5
2350.9606	25.00	-4.60	56567.930	1.5	60820.350	2.5
2350.9695	7.00	-2.27	111271.596	.5	115524.000	1.5
2350.9695	7.00	-1.80	111271.596	.5	115524.000	.5
2350.9827	28.01	-4.47	116838.330	1.5	121090.710	.5
2351.0635	26.00	-2.63	47960.973	4.0	52213.207	3.0
2351.3698	28.01	-2.16	101247.370	2.5	105499.050	3.5
2351.7127	23.00	-3.03	32738.140	1.5	36989.200	2.5
2351.8621	6.00	-2.32	83947.430	3.0	88198.220	2.0
2352.0835	28.01	-3.41	117074.700	3.5	121325.090	2.5
2352.2937	15.01	-4.33	106001.990	1.0	110252.000	1.0
2352.3713	6.01	-.53	177793.540	1.5	182043.410	1.5
2352.3917	14.00	-2.58	57198.027	3.0	61447.860	2.0
2352.4266	22.00	-4.31	43744.550	4.0	47994.320	5.0
2352.4654	9.01	.29	256262.460	1.0	260512.160	1.0
2352.4687	18.00	-1.80	120619.076	2.0	124868.770	3.0
2352.6364	7.00	-4.21	111905.609	2.5	116155.000	1.5
2352.6558	7.00	-1.71	111285.644	1.5	115535.000	2.5
2352.7034	6.01	-.93	177774.590	.5	182023.860	.5
2352.7865	10.01	.17	303928.100	.5	308177.220	1.5
2352.7976	18.01	.18	214911.300	2.5	219160.400	2.5
2352.8213	28.00	-2.94	47208.228	1.0	51457.285	0.0
2352.9525	17.00	-4.17	97739.320	1.5	101988.140	2.5
2352.9858	12.01	-1.71	108784.330	.5	113033.090	1.5
2353.3070	6.00	-2.36	85203.640	2.0	89451.820	1.0
2353.3514	15.00	-3.22	76875.400	1.5	81123.500	2.5
2353.4234	23.00	-3.21	38115.650	3.5	42363.620	3.5
2353.6838	18.01	-4.05	196633.020	2.5	200880.520	3.5
2353.8501	6.00	-2.65	83848.830	3.0	88096.030	2.0
2353.9144	26.00	-3.90	46901.808	1.0	51148.892	2.0
2353.9221	27.00	-4.40	51160.030	2.5	55407.100	1.5
2354.0829	28.01	-4.13	115956.710	2.5	120203.490	2.5
2354.1649	8.00	-3.06	103869.968	2.0	108116.600	1.0
2354.1649	8.00	-1.89	103869.968	2.0	108116.600	2.0
2354.1649	8.00	-1.14	103869.968	2.0	108116.600	3.0
2354.1921	22.00	-3.86	37659.927	3.0	41906.510	2.0
2354.1982	8.00	-1.89	103870.028	1.0	108116.600	1.0
2354.1982	8.00	-1.41	103870.028	1.0	108116.600	2.0
2354.2719	26.00	-3.48	49627.861	4.0	53874.300	5.0
2354.3224	8.00	-1.76	103870.252	0.0	108116.600	1.0
2354.3595	14.00	-1.94	59109.959	3.0	63356.240	2.0
2354.4521	18.00	-1.96	120619.076	2.0	124865.190	2.0
2354.5353	18.00	-2.79	120619.076	2.0	124865.040	3.0
2354.5597	12.01	-2.01	108784.330	.5	113030.250	.5
2354.7981	23.00	-2.35	32738.140	1.5	36983.630	1.5
2354.8769	14.00	-3.60	59110.892	2.0	63356.240	2.0
2355.2031	6.00	-2.32	85203.640	2.0	89448.400	3.0
2355.2203	17.00	-3.17	91069.020	.5	95313.749	1.5
2355.3030	18.01	-1.94	203501.800	2.5	207746.380	2.5
2355.3863	17.00	-1.06	90487.870	3.5	94732.300	3.5
2355.4273	7.00	-4.75	111285.644	1.5	115530.000	.5
2355.4273	7.00	-2.48	111285.644	1.5	115530.000	1.5
2355.6804	15.01	-.33	127889.300	3.0	132133.200	3.0
2355.7526	18.01	-4.16	195281.380	.5	199525.150	1.5
2355.7581	6.00	-3.03	85203.640	2.0	89447.400	2.0
2355.7636	21.00	-4.89	37717.110	3.5	41960.860	2.5
2355.7914	24.00	-4.23	53117.540	4.0	57361.240	3.0
2356.2356	30.02	-.50	257678.700	2.0	261921.600	2.0
2356.3022	27.00	-4.97	48217.320	3.5	52460.100	2.5
2356.4411	6.00	-2.20	85188.950	1.0	89431.480	2.0
2356.4577	30.02	-.20	258277.700	3.0	262520.200	2.0
2356.4744	28.01	-4.64	115956.710	2.5	120199.180	1.5
2356.5133	26.00	-.47	49558.500	4.0	53800.900	5.0
2356.5361	10.00	-.13	158795.992	1.0	163038.351	2.0
2356.6244	30.02	-1.04	260584.100	1.0	264826.300	1.0
2356.6633	28.01	-2.26	114052.040	3.5	118294.170	3.5
2356.7411	9.00	-.58	129381.860	2.5	133623.850	1.5
2356.9799	17.00	-1.81	97703.640	1.5	101945.200	.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
2356.9799	17.00	-.76	97703.640	1.5	101945.200	1.5
2357.0189	25.00	-2.66	57485.970	2.5	61727.460	2.5
2357.1473	17.00	-.55	97703.941	2.5	101945.200	1.5
2357.1634	28.01	-4.72	101740.270	3.5	105981.500	4.5
2357.2079	6.00	-2.89	83820.130	1.0	88061.280	1.0
2357.2245	27.00	-3.34	48615.560	2.5	52856.680	3.5
2357.5580	27.00	-4.82	50925.110	1.5	55165.630	2.5
2357.5914	28.01	-4.80	131221.090	3.5	135461.550	2.5
2357.6025	21.00	-3.11	33615.060	1.5	37855.500	2.5
2357.6042	26.00	-3.55	43137.472	3.0	47377.909	4.0
2357.7799	28.00	-2.29	42790.027	2.0	47030.148	3.0
2358.0141	6.00	-3.60	82251.710	0.0	86491.410	1.0
2358.0863	6.00	-2.09	84851.530	1.0	89091.100	1.0
2358.2582	7.00	-3.13	110710.739	2.5	114950.000	1.5
2358.5703	13.01	.34	121480.300	3.0	125719.000	2.0
2358.6148	23.00	-3.78	32988.820	3.5	37227.440	2.5
2358.7206	27.00	-3.61	44480.140	2.5	48718.570	2.5
2358.7429	18.01	-4.42	199679.760	2.5	203918.150	1.5
2358.7618	7.00	-3.69	111285.644	1.5	115524.000	.5
2358.7618	7.00	-2.69	111285.644	1.5	115524.000	1.5
2358.7618	7.00	-1.61	111285.644	1.5	115524.000	2.5
2358.7685	18.00	-2.56	120619.076	2.0	124857.420	2.0
2358.8519	18.00	-3.28	120619.076	2.0	124857.270	1.0
2358.9042	13.01	-.41	121480.900	2.0	125719.000	2.0
2358.9543	10.01	-3.98	302831.800	.5	307069.810	1.5
2359.0712	13.01	-1.59	121481.200	1.0	125719.000	2.0
2359.3050	23.00	-4.94	32788.220	4.5	37025.600	3.5
2359.3073	22.00	-5.85	11639.804	3.0	15877.180	2.0
2359.8731	21.00	-2.12	11520.150	1.5	15756.510	2.5
2359.9188	26.00	-3.93	49604.402	5.0	53840.680	6.0
2359.9845	6.00	-3.16	84935.340	1.0	89171.500	0.0
2360.1973	22.00	-2.51	31829.972	4.0	36065.750	3.0
2360.3734	14.00	-3.52	60381.278	1.0	64616.740	2.0
2360.6866	15.00	-2.18	77655.200	3.5	81890.100	2.5
2360.7424	15.00	-2.11	75104.600	.5	79339.400	1.5
2360.8205	6.00	-2.66	84935.340	1.0	89170.000	1.0
2360.8249	26.00	-4.51	46744.975	3.0	50979.627	4.0
2360.9097	13.01	-.82	144964.700	4.0	149199.200	3.0
2360.9097	13.01	-1.70	144964.700	4.0	149199.200	3.0
2360.9097	13.01	-2.55	144964.700	3.0	149199.200	3.0
2361.0156	9.01	.51	256262.460	1.0	260496.770	2.0
2361.0602	29.01	-1.33	117747.450	3.0	121981.680	2.0
2361.1182	26.00	-4.46	47136.058	2.0	51370.184	2.0
2361.2442	26.02	-3.44	219092.860	5.0	223326.760	4.0
2361.2443	15.00	-2.95	76192.300	1.5	80426.200	1.5
2361.2554	6.00	-1.97	84851.530	1.0	89085.410	1.0
2361.3948	28.01	-4.61	134607.370	4.5	138841.000	3.5
2361.4841	25.00	-4.52	58519.900	3.5	62753.370	2.5
2361.5019	20.00	-1.98	42514.845	0.0	46748.283	1.0
2361.6347	29.01	-3.26	134359.900	1.0	138593.100	1.0
2361.6877	28.00	-3.45	51343.800	2.0	55576.905	3.0
2361.7240	24.00	-3.56	44591.460	5.0	48824.500	4.0
2361.7462	14.02	-2.36	249774.480	2.0	254007.480	3.0
2361.8690	14.02	-.81	249774.700	3.0	254007.480	3.0
2362.0253	14.02	.25	249774.980	4.0	254007.480	3.0
2362.0644	14.02	.51	244871.470	1.0	249103.900	2.0
2362.1536	22.00	-3.81	41457.620	3.0	45689.890	3.0
2362.3200	22.00	-5.00	28882.440	3.0	33114.412	2.0
2362.4774	28.01	-1.70	101357.200	4.5	105588.890	4.5
2362.5388	28.01	-4.75	131233.280	3.5	135464.860	3.5
2362.6393	19.02	-1.71	246625.600	1.5	250857.000	.5
2362.7119	28.01	-4.06	132729.480	2.5	136960.750	2.5
2362.7170	7.00	-4.28	110710.739	2.5	114942.000	2.5
2362.7666	28.00	-1.69	46522.965	2.0	50754.137	2.0
2362.8403	26.02	-4.68	184780.800	5.0	189011.840	4.0
2362.8906	26.02	-4.59	202030.380	3.0	206261.330	4.0
2363.0073	14.00	-2.86	59109.959	3.0	63340.700	3.0
2363.0246	28.01	-3.58	114869.350	1.5	119100.060	1.5
2363.1252	10.01	-2.05	302839.280	2.5	307069.810	1.5
2363.2425	6.01	-1.23	177793.540	1.5	182023.860	.5
2363.3710	29.01	-3.24	136754.110	2.0	140984.200	1.0
2363.3710	6.00	-3.07	84851.530	1.0	89081.620	0.0
2363.4492	22.00	-2.50	41255.400	4.0	45485.350	5.0
2363.5286	14.00	-3.59	59110.892	2.0	63340.700	3.0
2363.5375	22.00	-1.67	34535.040	2.0	38764.832	3.0
2363.6515	10.00	.53	158601.115	2.0	162830.703	3.0
2363.6587	20.00	-1.98	42518.708	1.0	46748.283	1.0
2363.6895	14.02	-.81	249774.480	2.0	254004.000	2.0
2363.7454	28.01	-3.54	132982.510	1.5	137211.930	.5
2363.7566	6.00	-2.57	84935.340	1.0	89164.740	1.0
2363.7566	15.01	-.88	127934.900	1.0	132164.300	2.0
2363.8125	14.02	.09	249774.700	3.0	254004.000	2.0
2363.8963	27.00	-1.59	43295.320	4.5	47524.470	4.5
2363.9466	23.01	-4.60	68797.700	2.0	73026.760	2.0
2364.2597	26.01	-.84	83308.400	2.5	87536.900	3.5
2364.3323	6.00	-2.96	84851.530	1.0	89079.900	2.0
2364.4162	6.00	-3.79	84032.150	1.0	88260.370	2.0
2364.5728	28.01	-4.97	135606.300	6.5	139834.240	6.5
2364.6288	6.00	-2.15	85203.640	2.0	89431.480	2.0
2364.7854	25.00	-2.37	52128.650	2.5	56356.210	3.5
2364.7965	18.01	-2.03	195297.610	1.5	199525.150	1.5
2364.8077	14.02	-.08	249774.480	2.0	254002.000	1.0
2364.9750	17.00	-3.71	91173.510	1.5	95400.731	2.5
2365.1770	6.00	-3.66	84935.340	1.0	89162.200	2.0
2365.1837	7.00	-2.98	110715.152	3.5	114942.000	2.5
2365.2106	28.01	-4.81	95332.530	2.5	99559.330	2.5
2365.2497	22.00	-4.73	37690.320	5.0	41917.050	4.0
2365.2833	22.00	-.35	41780.950	4.0	46007.620	4.0
2365.4831	22.00	-3.95	35559.627	5.0	39785.940	4.0
2365.5296	27.00	-4.19	48546.070	1.5	52772.300	2.5
2365.7434	14.00	-2.56	57372.297	2.0	61598.145	2.0
2366.0503	13.01	.06	121480.900	2.0	125706.200	1.0
2366.1046	14.00	-2.50	57198.027	3.0	61423.230	3.0
2366.1583	14.00	-2.31	57372.297	2.0	61597.404	3.0
2366.2126	25.00	-1.80	57485.970	2.5	61710.980	3.5
2366.2182	13.01	-.41	121481.200	1.0	125706.200	1.0
2366.4143	9.00	-2.08	129381.860	2.5	133606.510	3.5
2366.8904	18.01	.77	200880.520	3.5	205104.320	4.5
2367.2267	6.00	-3.93	83838.080	2.0	88061.280	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2367.4342	29.01	-3.01	134675.600	2.0	138898.430	1.0
2367.8284	7.00	-1.37	111260.873	3.5	115483.000	2.5
2367.8828	14.02	.02	244871.470	1.0	249093.500	1.0
2368.0723	20.00	-1.29	42526.591	2.0	46748.283	1.0
2368.1183	28.01	-3.64	116893.980	2.5	121115.590	1.5
2368.4224	26.00	-1.62	42784.387	6.0	47005.455	5.0
2368.5391	27.00	-4.20	44857.570	.5	49078.430	1.5
2368.7580	18.01	-3.82	210447.010	3.5	214667.480	2.5
2368.8534	25.00	-4.59	58075.060	5.5	62295.360	5.5
2368.9713	27.00	-4.54	49484.050	3.5	53704.140	2.5
2369.0947	14.00	-.85	60704.530	3.0	64924.400	3.0
2369.2239	6.00	-2.67	84950.360	2.0	89170.000	1.0
2369.4149	13.01	-.29	121481.200	1.0	125700.500	0.0
2369.4429	9.02	-1.93	440359.260	3.5	444578.510	4.5
2369.4951	26.00	-2.09	40842.130	3.0	45061.287	3.0
2369.5047	22.00	-2.94	42311.310	3.0	46530.450	4.0
2369.6563	14.02	.77	250636.550	2.0	254855.420	3.0
2369.7406	6.00	-3.12	83877.310	1.0	88096.030	2.0
2369.7586	26.00	-4.83	47831.132	2.0	52049.820	2.0
2369.8192	14.02	.77	250366.220	3.0	254584.800	4.0
2369.9254	7.00	-3.35	111905.609	2.5	116124.000	1.5
2369.9316	14.02	.67	250366.220	3.0	254584.600	4.0
2370.0327	30.02	-2.61	258277.700	3.0	262495.900	4.0
2370.1001	27.00	-3.10	49484.050	3.5	53702.130	3.5
2370.1827	22.00	-2.44	31914.277	5.0	36132.210	4.0
2370.2013	23.00	-3.50	35379.110	3.5	39597.010	4.5
2370.2069	6.00	-2.16	84116.090	1.0	88333.980	0.0
2370.4396	18.00	-3.43	121068.804	1.0	125286.280	1.0
2370.5385	26.02	-3.99	114339.950	4.0	118557.250	5.0
2370.7128	24.00	-1.86	53172.330	5.0	57389.320	6.0
2370.7634	27.00	-4.01	48753.720	1.5	52970.620	2.5
2370.9157	10.00	.06	158795.992	1.0	163012.621	1.0
2370.9826	26.02	-2.63	219092.860	5.0	223309.370	5.0
2371.1401	25.00	-4.67	52870.100	3.5	57086.330	2.5
2371.1570	13.01	-1.66	142360.800	0.0	146577.000	1.0
2371.2920	26.00	-4.86	49850.610	3.0	54066.570	4.0
2371.3319	14.00	-1.12	57295.881	0.0	61511.770	1.0
2371.4101	23.00	-4.89	32767.880	1.5	36983.630	1.5
2371.4720	20.01	-2.05	83458.080	2.5	87673.720	2.5
2371.4720	20.01	-.75	83458.080	3.5	87673.720	2.5
2371.8602	19.00	-1.96	28999.270	.5	33214.220	.5
2371.9069	22.00	-1.81	15108.121	3.0	19322.988	2.0
2372.0008	6.00	-3.13	83877.310	1.0	88092.010	1.0
2372.0701	22.00	-4.55	37743.933	3.0	41958.510	2.0
2372.1810	6.00	-3.54	84950.360	2.0	89164.740	1.0
2372.2823	13.01	-2.54	142362.800	1.0	146577.000	1.0
2372.2823	13.01	-2.33	142362.800	1.0	146577.000	0.0
2372.2823	13.01	-3.63	142362.800	1.0	146577.000	2.0
2372.2823	13.01	-2.07	142362.800	2.0	146577.000	1.0
2372.2823	13.01	-2.46	142362.800	2.0	146577.000	2.0
2372.2823	13.01	-1.71	142362.800	3.0	146577.000	2.0
2372.3324	26.00	-1.93	46889.126	4.0	51103.237	5.0
2372.3892	6.00	-2.14	84935.340	1.0	89149.350	1.0
2372.4793	20.01	-.90	83458.080	2.5	87671.930	1.5
2372.5075	28.01	-3.52	117872.780	2.5	122086.580	3.5
2372.5424	10.00	-2.36	167867.178	0.0	172080.916	1.0
2372.5638	15.01	-1.57	127950.600	2.0	132164.300	2.0
2372.6088	29.01	-.99	118532.150	2.0	122745.770	2.0
2373.3354	28.01	-2.03	116838.330	1.5	121050.660	2.5
2373.4239	28.00	-4.51	50039.180	2.0	54251.353	3.0
2373.4650	15.00	-2.35	75484.400	2.5	79696.500	1.5
2373.5213	17.01	-1.96	146469.000	3.0	150681.000	2.0
2373.6115	6.00	-2.37	84950.360	2.0	89162.200	2.0
2373.6611	12.00	-2.63	56968.218	3.0	61179.970	2.0
2373.6611	12.00	-1.30	56968.218	3.0	61179.970	3.0
2373.6611	12.00	-1.50	56968.218	3.0	61179.970	3.0
2373.6611	12.00	-.02	56968.218	3.0	61179.970	4.0
2373.6781	12.00	-1.26	56968.248	2.0	61179.970	2.0
2373.6781	12.00	-.34	56968.248	2.0	61179.970	3.0
2373.6781	12.00	-1.33	56968.248	2.0	61179.970	3.0
2373.6910	12.00	-.35	56968.271	1.0	61179.970	2.0
2373.8572	7.00	-3.10	111271.596	.5	115483.000	.5
2373.8572	7.00	-2.01	111271.596	.5	115483.000	1.5
2374.0850	29.01	-2.29	136773.200	1.0	140984.200	1.0
2374.3106	24.00	-2.97	53172.330	5.0	57382.930	5.0
2374.3557	27.00	-3.85	49484.050	3.5	53694.570	3.5
2374.3895	28.01	-4.47	133001.470	.5	137211.930	.5
2374.5531	28.01	-1.94	99442.860	4.5	103653.030	3.5
2374.6377	28.01	-4.63	92325.850	3.5	96535.870	3.5
2374.7561	28.01	-1.93	115956.710	2.5	120166.520	1.5
2375.0658	14.00	-1.76	57328.789	1.0	61538.050	0.0
2375.3316	10.01	-1.10	303928.100	.5	308136.890	1.5
2375.3327	14.00	-2.01	59131.912	4.0	63340.700	3.0
2375.5495	7.00	-2.83	111271.596	.5	115480.000	1.5
2375.5495	7.00	-2.84	111271.596	.5	115480.000	.5
2375.5687	22.00	-2.17	41624.130	4.0	45832.500	5.0
2375.6139	24.00	-4.86	45113.220	3.0	49321.510	2.0
2375.6635	7.00	-2.55	111326.798	2.5	115535.000	2.5
2375.6635	7.00	-1.81	111326.798	2.5	115535.000	3.5
2375.6691	20.00	-1.61	41679.008	1.0	45887.200	0.0
2375.7516	18.00	-4.79	122086.974	2.0	126295.020	3.0
2375.7815	7.00	-4.79	112294.007	.5	116502.000	.5
2375.8193	18.00	-1.53	122086.974	2.0	126294.900	3.0
2375.9583	28.01	-3.10	112686.300	2.5	116893.980	2.5
2375.9871	26.00	-3.95	46672.523	0.0	50880.152	1.0
2376.0768	28.01	-3.97	117872.780	2.5	122080.250	2.5
2376.1446	9.00	-.92	126282.580	1.5	130489.930	.5
2376.1615	6.00	-2.35	84935.340	1.0	89142.660	2.0
2376.4270	28.01	-3.04	132120.700	.5	136327.550	1.5
2376.4615	17.00	-1.04	95995.561	.5	100202.350	.5
2376.6191	19.00	-1.66	29007.710	1.5	33214.220	.5
2376.6248	30.02	-.01	258239.600	4.0	262446.100	3.0
2376.8168	17.00	-1.26	97739.040	.5	101945.200	.5
2376.8168	17.00	-1.53	97739.040	.5	101945.200	1.5
2376.9751	17.00	-1.02	97739.320	1.5	101945.200	.5
2376.9751	17.00	-1.71	97739.320	1.5	101945.200	1.5
2377.0712	18.01	-4.38	199525.150	1.5	203730.860	1.5
2377.2549	28.00	-1.89	45122.460	1.0	49327.845	2.0
2377.2803	6.00	-2.26	84950.360	2.0	89155.700	3.0
2377.4273	23.00	-4.52	37959.660	2.5	42164.740	3.5
2377.7835	21.00	-2.39	11677.310	4.5	15881.760	3.5
2377.9023	28.01	-1.41	116838.330	1.5	121042.570	1.5
2377.9306	28.01	-4.83	116838.330	1.5	121042.520	1.5
2378.1286	18.00	-.76	119847.810	1.0	124051.650	2.0
2378.2909	17.00	-3.11	97338.887	2.5	101542.440	1.5
2378.2983	28.01	-3.24	126738.820	1.5	130942.360	1.5
2378.4794	19.00	-1.18	30185.240	2.5	34388.460	1.5
2378.4828	26.00	-3.12	41130.620	1.0	45333.834	2.0
2378.4839	14.00	-2.10	56503.346	2.0	60706.558	1.0
2378.4896	7.00	-2.92	111326.798	2.5	115530.000	1.5
2378.6434	10.01	-3.78	303974.290	1.5	308177.220	1.5
2378.7340	18.01	-4.09	210464.710	2.5	214667.480	2.5
2378.7623	19.00	-2.14	30185.740	1.5	34388.460	1.5
2378.8133	6.00	-2.01	84851.530	1.0	89054.160	2.0
2378.9322	19.00	-1.44	30185.740	1.5	34388.160	.5
2379.2328	26.00	-4.51	47017.170	3.0	51219.059	3.0
2379.3341	9.00	-.31	129381.860	2.5	133583.570	2.5
2379.4140	26.00	-3.94	47092.693	3.0	51294.262	3.0
2379.5148	7.00	-2.93	111905.609	2.5	116107.000	1.5
2379.6287	9.01	-3.20	207699.070	1.0	211900.260	1.0
2379.6321	14.00	-1.45	56503.346	2.0	60704.530	3.0
2379.7136	24.00	-4.60	44050.870	4.0	48251.910	3.0
2380.0479	24.00	-4.55	53172.330	5.0	57372.780	4.0
2380.1408	22.00	-4.77	37852.434	4.0	42052.720	3.0
2380.6430	30.02	-2.07	260805.900	2.0	265005.300	2.0
2380.8754	6.00	-2.03	84950.360	2.0	89149.350	1.0
2380.8981	26.00	-3.63	47555.584	1.0	51754.534	1.0
2380.9435	21.00	-1.40	11557.640	2.5	15756.510	2.5
2380.9922	22.00	-6.03	11776.806	4.0	15975.590	3.0
2381.1250	9.00	-1.43	129772.830	2.5	133971.380	1.5
2381.1250	18.01	-1.84	200880.520	3.5	205079.070	2.5
2381.3121	9.01	-3.07	207702.040	0.0	211900.260	1.0
2381.3518	19.00	-1.89	30274.280	.5	34472.430	1.5
2381.4937	19.00	-2.19	30274.280	.5	34472.180	.5
2381.5616	9.02	-1.45	464921.740	3.5	469119.520	2.5
2381.8023	7.00	-2.40	111285.644	1.5	115483.000	.5
2381.8023	7.00	-2.50	111285.644	1.5	115483.000	1.5
2381.8023	7.00	-2.02	111285.644	1.5	115483.000	2.5
2381.8369	14.00	-3.80	57450.580	3.0	61647.875	2.0
2381.8897	7.00	-4.51	111326.798	2.5	115524.000	1.5
2381.8897	7.00	-3.36	111326.798	2.5	115524.000	2.5
2381.8897	7.00	-1.54	111326.798	2.5	115524.000	3.5
2382.1576	10.01	-2.58	276276.850	1.5	280473.580	1.5
2382.2427	22.00	-4.42	40384.580	1.0	44581.160	2.0
2382.3051	9.01	-4.37	207703.790	2.0	211900.260	1.0
2382.3392	25.00	-3.99	53109.210	2.5	57305.620	3.5
2382.5192	17.00	-4.23	90948.530	1.5	95144.623	2.5
2382.8332	9.00	-.55	129381.860	2.5	133577.400	1.5
2382.8900	28.01	-2.79	115120.000	2.5	119315.440	2.5
2383.0604	18.01	-4.51	198812.550	2.5	203007.690	1.5
2383.3672	15.00	-3.05	76875.400	1.5	81070.000	1.5
2383.5058	7.00	-2.14	111285.644	1.5	115480.000	.5
2383.5058	7.00	-3.33	111285.644	1.5	115480.000	1.5
2383.6383	17.00	-2.82	97338.887	2.5	101533.010	2.5
2383.6610	17.00	-2.96	97338.887	2.5	101532.970	1.5
2383.6713	12.00	-.82	54248.809	0.0	58442.874	1.0
2383.7298	28.00	-2.53	46522.965	2.0	50716.927	1.0
2383.8844	28.01	-1.82	101246.160	.5	105439.850	1.5
2383.9526	18.00	-1.05	119847.810	1.0	124041.380	2.0
2383.9697	6.00	-2.38	84950.360	2.0	89143.900	3.0
2384.0550	18.00	-2.02	119847.810	1.0	124041.200	1.0
2384.0720	14.00	-1.32	59032.140	2.0	63225.500	2.0
2384.2914	26.00	-4.36	47177.210	1.0	51370.184	2.0
2384.3620	9.00	-.15	129772.830	2.5	133965.680	2.5
2384.3790	9.02	-1.05	440359.260	3.5	444552.080	3.5
2384.3972	12.00	-.95	54250.086	1.0	58442.874	1.0
2384.4092	12.00	-.64	54250.086	1.0	58442.853	2.0
2384.4359	15.00	-.32	65787.380	3.5	69980.100	3.5
2384.4927	18.01	-1.32	203501.800	2.5	207694.420	3.5
2384.5069	18.00	-.02	112750.220	4.0	116942.815	3.0
2384.5724	28.01	-1.36	101247.370	2.5	105439.850	1.5
2384.6748	6.00	-2.10	84950.360	2.0	89142.660	2.0
2384.8738	10.01	-1.87	318156.060	4.5	322348.010	3.5
2384.8738	10.01	-.90	318156.060	4.5	322348.010	4.5
2385.0935	17.00	-1.50	97667.396	3.5	101858.960	2.5
2385.4942	10.01	-.61	318157.150	3.5	322348.010	3.5
2385.4942	10.01	-.14	318157.150	3.5	322348.010	4.5
2385.7333	24.00	-2.90	50628.110	3.0	54818.550	2.0
2385.7617	25.00	-4.66	58110.240	4.5	62300.630	4.5
2385.8813	14.00	-1.01	57372.297	2.0	61562.477	3.0
2385.8995	12.00	-2.12	54252.726	2.0	58442.874	1.0
2385.9115	12.00	-1.12	54252.726	2.0	58442.853	2.0
2385.9172	12.00	-.20	54252.726	2.0	58442.843	3.0
2385.9268	23.01	-3.99	32299.240	1.0	36489.340	1.0
2386.1489	18.01	-2.61	210477.770	3.5	214667.480	2.5
2386.1780	17.00	-.74	95995.561	.5	100185.220	1.5
2386.2452	17.00	-2.20	96313.330	1.5	100502.871	1.5
2386.4736	28.01	-3.07	135645.100	5.5	139834.240	6.5
2386.4964	15.01	-2.72	127889.300	3.0	132078.400	4.0
2386.9049	17.00	-2.25	97354.057	1.5	101542.440	1.5
2386.9067	6.00	-2.84	83947.430	3.0	88135.810	3.0
2386.9523	13.01	-.39	143262.700	2.0	147451.000	3.0
2387.0149	22.00	-2.66	38670.710	4.0	42858.900	3.0
2387.0548	9.01	-2.72	207699.070	1.0	211887.190	2.0
2387.2942	28.01	-.25	130470.900	4.5	134658.600	4.5
2387.4618	22.00	-2.40	32013.534	6.0	36200.940	5.0
2387.6820	10.01	-2.32	318160.990	3.5	322348.010	3.5
2387.6820	10.01	-.28	318160.990	3.5	322348.010	4.5
2387.7338	22.00	-4.16	35454.051	4.0	39640.980	3.0
2387.8530	10.01	-2.79	318161.290	2.5	322348.010	3.5
2387.8536	17.00	-1.45	91127.030	2.5	95313.749	1.5
2388.1382	28.01	-4.32	109038.840	1.5	113225.060	.5
2388.2609	17.00	-1.25	83894.037	3.5	88080.042	2.5
2388.3037	29.01	-.67	133727.870	2.0	137913.800	1.0
2388.3208	18.01	-1.56	214974.500	2.5	219160.400	2.5
2388.3550	18.01	-2.86	214974.560	3.5	219160.400	2.5
2388.5987	17.00	-1.99	97338.887	2.5	101524.300	2.5
2388.6672	17.00	-1.60	97338.887	2.5	101524.180	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2388.7659	25.00	-4.04	58110.240	4.5	62295.360	5.5
2388.9508	14.00	-1.57	58801.524	1.0	62986.320	2.0
2389.0456	17.00	-2.78	97674.330	2.5	101858.960	2.5
2389.0742	23.00	-2.42	32891.060	3.5	37075.640	4.5
2389.1564	14.00	-1.61	58801.524	1.0	62985.960	1.0
2389.1884	26.00	-4.44	47555.584	1.0	51739.964	2.0
2389.3220	26.00	-3.55	47420.000	2.0	51604.146	3.0
2389.4111	27.00	-3.93	28470.510	1.5	32654.500	2.5
2389.4225	6.00	-3.07	83877.310	1.0	88061.280	1.0
2389.6338	13.01	-.91	144638.900	2.0	148822.500	2.0
2389.6338	13.01	-.18	144638.900	1.0	148822.500	2.0
2389.6338	13.01	-.38	144638.900	2.0	148822.500	3.0
2389.6338	13.01	-2.46	144638.900	3.0	148822.500	2.0
2389.6338	13.01	-1.28	144638.900	3.0	148822.500	3.0
2389.6338	13.01	.15	144638.900	3.0	148822.500	4.0
2389.7481	9.01	-3.20	207703.790	2.0	211887.190	2.0
2389.7995	28.01	-2.91	94283.940	4.5	98467.250	3.5
2389.8680	24.00	-3.28	44068.720	3.0	48251.910	3.0
2389.9874	14.00	-2.13	57328.789	1.0	61511.770	1.0
2390.0280	10.01	-2.74	303237.910	1.5	307420.820	2.5
2390.0491	17.00	-2.12	97338.887	2.5	101521.760	3.5
2390.2052	15.01	.30	127950.600	2.0	132133.200	3.0
2390.4732	18.00	-.75	119023.699	4.0	123205.830	3.0
2390.4795	9.00	-.30	125877.280	1.5	130059.400	.5
2390.6395	28.01	-1.59	101258.010	1.5	105439.850	1.5
2390.7853	26.00	-4.55	45061.287	3.0	49242.872	3.0
2390.8168	25.00	-2.89	53124.090	3.5	57305.620	3.5
2391.0055	13.01	-1.82	143269.800	3.0	147451.000	3.0
2391.0055	13.01	-4.01	143269.800	3.0	147451.000	4.0
2391.0055	13.01	-.25	143269.800	3.0	147451.000	4.0
2391.2056	9.02	-1.60	464939.500	2.5	469120.350	1.5
2391.4688	21.00	-4.31	34390.250	.5	38570.640	.5
2391.5546	27.00	-3.11	46872.740	3.5	51052.980	3.5
2391.6805	9.02	-2.85	464939.500	2.5	469119.520	2.5
2391.8464	22.00	-3.69	38544.380	3.0	42724.110	2.0
2392.1268	10.01	-1.70	302890.570	2.5	307069.810	1.5
2392.1497	26.02	-3.07	219092.860	5.0	223272.060	6.0
2392.2012	27.00	-2.25	46746.000	2.5	50925.110	1.5
2392.3140	17.00	-1.65	97354.057	1.5	101532.970	1.5
2392.3443	23.00	-3.00	32846.740	2.5	37025.600	3.5
2392.4646	21.00	-4.22	34422.850	1.5	38601.500	1.5
2392.6821	14.00	-2.61	60704.530	3.0	64882.800	2.0
2392.8081	28.01	-2.69	130480.550	3.5	134658.600	4.5
2392.9055	21.00	-4.28	34480.050	2.5	38657.930	2.5
2392.9341	23.00	-4.40	32897.810	5.5	37075.640	4.5
2392.9341	14.02	.94	244943.310	2.0	249121.140	3.0
2393.0201	27.00	-4.67	50105.050	1.5	54282.730	2.5
2393.1163	26.00	-4.37	51201.330	2.0	55378.842	2.0
2393.2779	6.00	-2.35	84984.970	3.0	89162.200	2.0
2393.4956	23.00	-2.98	34065.610	2.5	38242.460	3.5
2393.7615	17.00	-1.03	95534.923	.5	99711.309	.5
2393.8441	14.00	-1.89	60706.558	1.0	64882.800	2.0
2393.8739	25.00	.28	45981.440	2.5	50157.630	3.5
2393.8968	10.01	-4.28	313652.170	1.5	317828.320	.5
2393.9770	28.01	-4.37	130147.870	.5	134323.880	1.5
2394.2293	9.00	.13	129381.860	2.5	133557.430	2.5
2394.2694	26.01	-1.70	83459.700	1.5	87635.200	.5
2394.5677	25.00	-3.85	57305.620	3.5	61480.600	3.5
2394.6250	18.01	-3.99	204417.230	1.5	208592.110	.5
2394.8143	18.01	-2.71	204417.230	1.5	208591.780	1.5
2394.8659	9.00	-.19	129484.660	1.5	133659.120	.5
2394.8717	25.00	-2.19	52015.000	3.5	56189.450	4.5
2394.9233	18.01	-4.88	199959.620	2.5	204133.980	2.5
2394.9979	28.01	-2.58	112719.750	3.5	116893.980	2.5
2395.1127	28.01	-4.32	129271.720	3.5	133445.750	4.5
2395.1127	18.00	-.48	118512.170	0.0	122686.200	1.0
2395.1419	10.00	.36	159534.620	1.0	163708.599	2.0
2395.2561	23.00	-3.42	35225.040	2.5	39398.820	3.5
2395.3462	14.00	-1.44	49188.617	2.0	53362.240	3.0
2395.5873	17.00	-2.48	92140.127	1.5	96313.330	1.5
2395.5890	13.01	-1.32	143170.000	1.0	147343.200	2.0
2395.6367	22.00	-3.62	37743.933	3.0	41917.050	4.0
2395.6458	10.00	-.05	159534.620	1.0	163707.721	1.0
2395.7848	26.00	-3.30	49108.876	4.0	53281.735	5.0
2396.1293	17.00	-1.52	97004.081	1.5	101176.340	2.5
2396.2780	16.00	-1.65	75951.060	1.0	80123.060	0.0
2396.5595	25.00	-4.93	47466.660	1.5	51638.170	2.5
2396.6055	18.01	-.67	214832.170	3.5	219003.600	2.5
2396.6187	18.00	-1.51	107496.463	1.0	111667.870	0.0
2396.7434	28.01	-2.34	130470.900	4.5	134642.090	3.5
2396.8468	24.00	-3.00	44080.900	2.0	48251.910	3.0
2396.9388	29.01	-3.11	137073.750	2.0	141244.600	1.0
2396.9675	30.02	.18	260613.100	5.0	264783.900	4.0
2397.0020	22.00	-3.05	36132.210	4.0	40302.950	3.0
2397.0077	6.00	-3.10	84984.970	3.0	89155.700	3.0
2397.0192	18.01	-2.33	186340.480	1.5	190511.190	2.5
2397.0250	28.01	-1.38	100475.820	3.5	104646.520	3.5
2397.0307	28.01	-2.00	116732.510	2.5	120903.200	3.5
2397.1169	14.02	.19	244933.360	1.0	249103.900	2.0
2397.1917	19.00	-4.45	29007.710	1.5	33178.120	2.5
2397.1974	13.01	-1.70	143280.600	4.0	147451.000	4.0
2397.1974	13.01	-1.84	143280.600	4.0	147451.000	4.0
2397.1974	13.01	-.17	143280.600	4.0	147451.000	5.0
2397.1974	13.01	-3.26	143280.600	4.0	147451.000	3.0
2397.2877	17.00	-1.31	97354.057	1.5	101524.300	2.5
2397.3526	28.01	-2.94	132120.700	.5	136290.830	.5
2397.4837	14.00	-2.34	59034.988	3.0	63204.890	2.0
2397.5136	28.01	-4.02	132729.480	2.5	136899.330	1.5
2397.5251	16.00	-2.30	74972.250	4.0	79142.080	3.0
2397.5251	16.00	-1.13	74972.250	4.0	79142.080	4.0
2397.5251	16.00	-.26	74972.250	4.0	79142.080	5.0
2397.7034	27.00	-3.21	46872.740	3.5	51042.260	2.5
2397.9276	29.01	-1.63	137034.970	3.0	141204.100	3.0
2398.0071	14.00	-2.08	59056.508	1.0	63225.500	2.0
2398.0714	16.00	-2.00	74973.200	3.0	79142.080	2.0
2398.0714	16.00	-.98	74973.200	3.0	79142.080	3.0
2398.0714	16.00	-.43	74973.200	3.0	79142.080	4.0
2398.0829	10.01	-2.12	303071.840	2.5	307240.700	3.5
2398.3476	30.02	-.52	258277.700	3.0	262446.100	3.0
2398.3764	16.00	-1.76	75951.060	1.0	80119.410	1.0
2398.5582	17.00	-2.74	91538.500	1.5	95706.534	1.5
2398.6699	16.00	-1.29	75951.570	2.0	80119.410	1.0
2398.7217	16.00	-2.00	74974.330	2.0	79142.080	1.0
2398.7217	16.00	-1.00	74974.330	2.0	79142.080	2.0
2398.7217	16.00	-.62	74974.330	2.0	79142.080	3.0
2398.7504	10.01	-.07	318180.310	2.5	322348.010	3.5
2399.2224	18.01	-.93	186340.480	1.5	190507.360	1.5
2399.2282	16.00	-1.16	74975.210	1.0	79142.080	1.0
2399.2282	16.00	-.86	74975.210	1.0	79142.080	2.0
2399.2512	27.00	-4.28	47393.930	2.5	51560.760	2.5
2399.2685	17.01	-4.79	154619.600	2.0	158786.400	3.0
2399.2743	23.00	-3.70	33155.300	4.5	37322.090	3.5
2399.3301	28.00	-4.72	47139.392	2.0	51306.085	3.0
2399.3895	14.00	-.58	57450.580	3.0	61617.170	4.0
2399.4067	25.00	-2.64	59257.440	4.5	63424.000	3.5
2399.4096	26.00	-4.88	49227.160	3.0	53393.715	4.0
2399.5679	16.00	-1.16	74975.800	0.0	79142.080	1.0
2399.6889	6.00	-2.83	84032.150	1.0	88198.220	2.0
2399.8024	26.00	-4.99	45061.287	3.0	49227.160	3.0
2399.8502	26.00	-3.92	53808.370	1.0	57974.160	2.0
2399.8618	21.00	-2.11	33615.060	1.5	37780.830	1.5
2399.8866	14.00	-.46	56690.903	2.0	60856.630	1.0
2399.9470	14.00	-2.53	60496.358	2.0	64661.980	3.0
2399.9539	25.00	-4.82	57305.620	3.5	61471.230	2.5
2400.2086	14.00	-2.67	59191.072	2.0	63356.240	2.0
2400.2133	18.01	-3.96	195281.380	.5	199446.540	.5
2400.2593	27.00	-4.24	43199.650	2.5	47364.730	1.5
2400.3976	6.00	-1.82	82251.710	0.0	86416.550	1.0
2400.4322	14.02	.32	244928.720	0.0	249093.500	1.0
2400.4628	22.00	-2.50	34535.040	2.0	38699.767	2.0
2400.9165	25.00	-4.49	58136.690	3.5	62300.630	4.5
2400.9972	17.01	-3.92	154622.600	3.0	158786.400	3.0
2401.0030	24.00	-3.45	50654.760	2.0	54818.550	2.0
2401.0317	18.01	-.08	201030.300	.5	205194.040	1.5
2401.0548	15.00	-4.45	78069.000	1.5	82232.700	2.5
2401.1125	18.01	-.63	214996.800	3.5	219160.400	2.5
2401.1702	22.01	-4.87	65458.650	3.5	69622.150	2.5
2401.3063	18.00	-1.85	113020.390	3.0	117183.654	2.0
2401.4586	15.01	-.23	124947.600	2.0	129110.600	1.0
2401.5163	15.00	-2.39	76173.400	3.5	80336.300	2.5
2401.5393	27.00	-2.51	44555.710	1.5	48718.570	2.5
2401.6432	9.00	.50	129381.860	2.5	133544.540	3.5
2401.6894	17.01	-3.42	154623.800	4.0	158786.400	3.0
2401.6894	10.01	-.21	303974.290	1.5	308136.890	1.5
2401.8221	22.00	.87	41995.390	6.0	46157.760	5.0
2401.8394	9.01	-2.45	207703.790	2.0	211866.130	3.0
2401.8457	22.00	-3.67	29818.310	3.0	33980.639	2.0
2401.9202	27.00	-3.53	48753.720	1.5	52915.920	.5
2402.0547	18.00	-2.78	116999.389	2.0	121161.356	1.0
2402.0645	17.00	-2.20	92151.380	.5	96313.330	1.5
2402.1106	10.01	-2.65	318186.140	5.5	322348.010	4.5
2402.1279	10.01	-4.75	318186.170	4.5	322348.010	3.5
2402.1279	10.01	-1.48	318186.170	4.5	322348.010	4.5
2402.1337	28.01	-2.47	126738.820	1.5	130900.650	2.5
2402.3011	28.01	-.93	130480.550	3.5	134642.090	3.5
2402.3819	15.00	-2.37	76021.600	1.5	80183.000	2.5
2402.3877	18.00	-4.12	121191.920	2.0	125353.310	1.0
2402.4685	28.01	-4.18	117763.910	1.5	121925.160	.5
2402.4974	28.02	-4.33	117251.000	3.0	121412.200	2.0
2402.5655	22.00	-3.83	37824.748	4.0	41985.830	3.0
2402.5724	16.00	-2.93	75951.060	1.0	80112.130	2.0
2402.7283	30.02	-1.46	260623.100	4.0	264783.900	4.0
2402.8496	14.02	.19	244943.310	2.0	249103.900	2.0
2402.8669	16.00	-1.75	75951.570	2.0	80112.130	2.0
2402.8727	11.00	-.90	35040.380	.5	39200.930	1.5
2402.9420	28.01	-3.72	130174.030	1.5	134334.460	1.5
2403.0275	22.00	-4.31	38451.298	2.0	42611.580	1.0
2403.0922	23.00	-4.81	37758.070	4.5	41918.240	5.5
2403.1038	6.00	-2.54	84032.150	1.0	88192.300	1.0
2403.1096	14.02	-.28	244933.360	1.0	249093.500	1.0
2403.1326	30.02	-.35	258075.700	3.0	262235.800	3.0
2403.3770	14.00	-2.67	60487.103	1.0	64646.780	2.0
2403.3926	29.01	-2.74	137044.450	4.0	141204.100	3.0
2403.4215	13.01	-1.43	138799.300	0.0	142958.900	1.0
2403.5781	22.00	-4.66	37555.021	3.0	41714.350	2.0
2403.6122	21.01	-3.79	55715.520	1.0	59874.790	1.0
2403.6914	22.00	-5.00	38699.767	2.0	42858.900	3.0
2403.7798	9.00	-.65	129772.830	2.5	133931.810	2.5
2403.8087	6.00	-1.61	84984.970	3.0	89143.900	3.0
2403.9514	17.00	-4.36	96731.172	3.5	100889.855	3.5
2404.0572	13.01	-.68	146185.000	2.0	150343.500	2.0
2404.0572	13.01	.05	146185.000	1.0	150343.500	2.0
2404.0572	13.01	-.14	146185.000	2.0	150343.500	3.0
2404.0572	13.01	-2.22	146185.000	3.0	150343.500	2.0
2404.0572	13.01	-1.05	146185.000	3.0	150343.500	3.0
2404.0572	13.01	.38	146185.000	3.0	150343.500	4.0
2404.0746	18.01	-4.50	196076.390	1.5	200234.860	2.5
2404.1555	12.01	.33	93310.590	2.5	97468.920	1.5
2404.2284	26.00	-4.12	47136.058	2.0	51294.262	3.0
2404.2307	15.00	-1.46	75705.400	3.5	79863.600	3.5
2404.3001	11.00	-.65	35042.850	1.5	39200.930	2.5
2404.3001	11.00	-1.60	35042.850	1.5	39200.930	1.5
2404.3637	25.00	-4.95	58136.690	3.5	62294.660	3.5
2404.4562	12.01	-.62	93311.110	1.5	97468.920	1.5
2404.5256	6.00	-3.49	84984.970	3.0	89142.660	2.0
2404.6298	13.02	.44	191484.230	.5	195641.740	1.5
2404.7685	6.00	-3.12	84103.100	2.0	88260.370	2.0
2405.0057	25.00	.40	46000.770	3.5	50157.630	3.5
2405.0752	27.00	-2.87	48615.560	2.5	52772.300	2.5
2405.2545	16.00	-1.00	75955.700	3.0	80112.130	2.0
2405.2835	14.00	-.68	56700.250	1.0	60856.630	1.0
2405.3865	7.00	-1.98	111326.798	2.5	115483.000	1.5
2405.3865	7.00	-1.66	111326.798	2.5	115483.000	2.5
2405.3992	25.00	-2.36	45259.170	1.5	49415.350	2.5
2405.6307	24.00	-2.86	50662.770	1.0	54818.550	2.0
2405.6423	6.00	-2.97	84935.340	1.0	89091.100	1.0
2405.8970	17.00	-2.79	97703.640	1.5	101858.960	2.5
2406.0714	17.00	-1.73	97703.941	2.5	101858.960	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2406.1229	26.00	-.68	50456.790	3.0	54611.720	2.0
2406.2943	28.00	-3.71	46522.965	2.0	50677.599	3.0
2406.3233	14.00	-3.63	53387.334	1.0	57541.918	1.0
2406.3719	18.01	-4.88	210512.980	1.5	214667.480	2.5
2406.6905	9.00	-1.97	129937.330	1.5	134091.280	1.5
2406.7253	9.00	.11	126067.230	.5	130221.120	1.5
2406.8354	27.00	-4.97	50105.050	1.5	54258.750	2.5
2406.8412	10.01	-1.33	318183.690	4.5	322337.380	3.5
2406.8817	10.01	-1.44	318184.260	3.5	322337.880	2.5
2406.9049	28.01	-3.98	130174.030	1.5	134327.610	2.5
2406.9652	14.00	-1.36	58801.524	1.0	62955.000	2.0
2407.0938	37.00	-1.81	25700.536	0.0	29854.923	0.0
2407.1240	7.00	-2.81	111326.798	2.5	115480.000	1.5
2407.1715	10.01	-2.88	318184.260	3.5	322337.380	3.5
2407.1773	10.01	-3.19	318184.270	4.5	322337.380	3.5
2407.1848	26.00	-4.37	46727.055	2.0	50880.152	1.0
2407.5889	21.00	-1.52	11520.150	1.5	15672.550	1.5
2407.7802	28.01	-4.45	130184.610	5.5	134336.680	4.5
2407.7802	28.01	-3.81	130184.610	5.5	134336.680	5.5
2407.7976	18.01	-1.33	199981.940	1.5	204133.980	2.5
2407.8614	6.00	-.92	84984.970	3.0	89136.900	4.0
2408.0818	28.00	-2.92	44314.980	4.0	48466.530	5.0
2408.1433	26.00	-4.63	47452.702	4.0	51604.146	3.0
2408.1688	15.00	-3.45	76021.600	1.5	80173.000	.5
2408.3302	14.00	-2.48	60496.358	2.0	64647.480	3.0
2408.3812	26.00	-2.75	48531.896	3.0	52682.930	2.0
2408.4920	26.00	-4.10	49242.872	3.0	53393.715	4.0
2408.7363	14.00	-2.53	60496.358	2.0	64646.780	2.0
2408.7786	14.00	-1.67	58775.451	2.0	62925.800	1.0
2408.8117	37.00	-.85	25703.498	0.0	29854.923	0.0
2408.8419	9.00	.69	129772.830	2.5	133923.070	3.5
2408.8709	14.02	-.98	244943.310	2.0	249093.500	1.0
2408.9232	27.00	-2.23	44568.470	2.5	48718.570	2.5
2408.9406	28.01	-3.68	130184.390	2.5	134334.460	1.5
2408.9406	6.00	-2.60	84935.340	1.0	89085.410	1.0
2408.9464	18.01	.12	201030.300	.5	205180.360	.5
2408.9638	26.02	-3.38	202030.380	3.0	206180.410	3.0
2409.0219	24.00	-4.60	50654.760	2.0	54804.690	1.0
2409.0358	20.00	-.29	43933.477	1.0	48083.383	2.0
2409.0683	28.01	-3.75	130174.030	1.5	134323.880	1.5
2409.0683	28.01	-4.13	130174.030	1.5	134323.880	2.5
2409.1972	14.00	-3.79	59191.072	2.0	63340.700	3.0
2409.2901	26.00	-3.12	47555.584	1.0	51705.052	2.0
2409.3993	14.00	-2.98	58786.860	3.0	62936.140	3.0
2409.4341	24.00	-4.12	51059.790	4.0	55209.010	4.0
2409.4945	22.00	-9.53	12118.394	4.0	16267.510	5.0
2409.4980	24.00	-4.34	44068.720	3.0	48217.830	2.0
2409.5392	20.00	-3.15	39340.080	2.0	43489.119	3.0
2409.5618	17.01	-4.31	154619.600	2.0	158768.600	2.0
2409.5735	23.00	-3.47	35092.360	1.5	39241.340	2.5
2409.6025	18.01	-1.54	195297.610	1.5	199446.540	.5
2409.7942	6.00	-2.55	83947.430	3.0	88096.030	2.0
2409.8406	10.01	-1.48	302750.810	3.5	306899.330	2.5
2409.9917	28.01	-2.64	116167.760	1.5	120316.020	.5
2409.9975	21.00	-1.93	33707.250	2.5	37855.500	2.5
2410.0730	27.00	-4.84	48615.560	2.5	52763.680	3.5
2410.2648	21.00	-4.31	34422.850	1.5	38570.640	.5
2410.3955	14.00	-3.15	57450.580	3.0	61598.145	2.0
2410.4798	9.00	-2.11	129937.330	1.5	134084.750	2.5
2410.5727	14.00	-1.44	58788.880	4.0	62936.140	3.0
2410.5786	25.00	-4.39	58485.520	4.5	62632.770	3.5
2410.6949	28.01	-1.54	118294.170	3.5	122441.220	4.5
2410.7239	13.01	-2.26	138811.900	2.0	142958.900	1.0
2410.7239	13.01	-2.73	138811.900	1.0	142958.900	1.0
2410.7280	7.00	-4.15	112294.007	.5	116441.000	.5
2410.7280	7.00	-4.45	112294.007	.5	116441.000	1.5
2410.7449	17.00	-1.17	95534.923	.5	99681.887	1.5
2410.7530	26.02	-3.56	219162.420	6.0	223309.370	5.0
2410.8263	14.00	-2.66	57450.580	3.0	61597.404	3.0
2410.8914	14.00	-2.13	58774.368	3.0	62921.080	2.0
2410.9215	9.00	-1.20	129772.830	2.5	133919.490	1.5
2411.1426	6.00	-1.98	84935.340	1.0	89081.620	0.0
2411.1484	21.00	-2.23	11610.240	3.5	15756.510	2.5
2411.3053	17.01	-4.27	154622.600	3.0	158768.600	2.0
2411.3461	10.01	-3.42	318191.950	3.5	322337.880	2.5
2411.5212	14.00	-3.22	58775.451	2.0	62921.080	2.0
2411.5380	28.01	-3.74	130187.810	6.5	134333.410	6.5
2411.5380	28.01	-4.28	130187.810	6.5	134333.410	5.5
2411.6370	10.01	-4.85	318191.950	3.5	322337.380	3.5
2411.6486	23.02	-1.79	158239.700	2.5	162385.110	3.5
2411.7242	15.00	-2.17	66544.120	2.5	70689.400	3.5
2411.8871	24.00	-2.85	51059.790	4.0	55204.790	3.0
2411.8930	18.01	-3.44	196089.870	2.5	200234.860	2.5
2412.1094	22.00	-2.39	33680.130	3.0	37824.748	4.0
2412.1432	28.01	-4.21	130236.260	2.5	134380.820	3.5
2412.1432	6.00	-2.10	84935.340	1.0	89079.900	2.0
2412.3062	6.00	-3.19	84116.090	1.0	88260.370	2.0
2412.4633	12.01	.07	93311.110	1.5	97455.120	.5
2412.5873	22.00	-4.76	41341.553	5.0	45485.350	5.0
2412.6729	28.01	.02	130470.900	4.5	134614.550	5.5
2412.8523	26.00	-4.50	27543.000	1.0	31686.342	2.0
2412.9233	28.01	-3.30	130184.390	2.5	134327.610	2.5
2412.9641	28.01	-3.56	130184.390	2.5	134327.540	3.5
2413.0922	27.00	-3.36	48317.170	3.5	52460.100	2.5
2413.3660	23.00	-2.26	32846.740	2.5	36989.200	2.5
2413.4976	17.00	-3.85	91564.300	.5	95706.534	1.5
2413.5175	26.01	-1.51	83459.700	1.5	87601.900	1.5
2413.6340	17.00	-2.63	97703.640	1.5	101845.640	1.5
2413.6381	7.00	-4.08	112294.007	.5	116436.000	1.5
2413.6806	24.00	-4.96	50662.770	1.0	54804.690	1.0
2413.7214	28.01	-2.32	101357.200	4.5	105499.050	3.5
2413.7797	27.00	-3.77	48828.870	2.5	52970.620	2.5
2413.8095	17.00	-2.46	97703.941	2.5	101845.640	1.5
2414.0187	14.01	-.38	122163.740	1.5	126305.080	2.5
2414.0537	14.01	-.23	122163.800	2.5	126305.080	3.5
2414.0537	14.01	-1.53	122163.800	2.5	126305.080	2.5
2414.1242	26.00	-3.91	49627.861	4.0	53769.020	4.0
2414.2693	10.01	-1.57	303279.910	2.5	307420.820	2.5
2414.3102	28.01	-3.17	129782.070	3.5	133922.910	4.5
2414.3160	6.00	-2.99	73975.910	0.0	78116.740	1.0
2414.3277	28.01	-3.22	113623.100	.5	117763.910	1.5
2414.3632	10.00	-4.61	168924.651	2.0	173065.400	2.0
2414.3685	6.00	-3.65	84950.360	2.0	89091.100	1.0
2414.5773	17.00	-3.03	96731.172	3.5	100871.554	3.5
2414.5784	18.01	-3.29	210527.100	2.5	214667.480	2.5
2414.6606	17.00	-3.37	91173.510	1.5	95313.749	1.5
2414.7784	17.00	-2.12	96731.172	3.5	100871.209	4.5
2414.8000	29.01	-4.33	134743.000	4.0	138883.000	4.0
2414.8584	15.00	-3.34	77655.200	3.5	81795.100	3.5
2414.9867	26.02	-3.90	202156.130	2.0	206295.810	1.0
2415.0322	22.00	-4.84	37617.868	4.0	41757.470	3.0
2415.0888	20.00	-3.59	39335.322	1.0	43474.827	2.0
2415.0975	28.01	-3.91	130184.390	2.5	134323.880	1.5
2415.0975	28.01	-3.49	130184.390	2.5	134323.880	2.5
2415.2142	23.00	-2.65	38106.320	2.5	42245.610	3.5
2415.2201	14.00	-.77	60704.530	3.0	64843.810	4.0
2415.2726	9.00	.04	129484.660	1.5	133623.850	1.5
2415.2872	18.00	-1.71	118651.447	1.0	122790.612	0.0
2415.4815	12.00	-2.69	56968.218	3.0	61107.050	2.0
2415.4815	12.00	-1.36	56968.218	3.0	61107.050	3.0
2415.4815	12.00	-1.56	56968.218	3.0	61107.050	3.0
2415.4815	12.00	-.08	56968.218	3.0	61107.050	4.0
2415.4885	9.00	-.06	125877.280	1.5	130016.100	2.5
2415.4990	12.00	-1.32	56968.248	2.0	61107.050	2.0
2415.4990	12.00	-.40	56968.248	2.0	61107.050	3.0
2415.4990	12.00	-1.37	56968.248	2.0	61107.050	3.0
2415.5124	12.00	-.42	56968.271	1.0	61107.050	2.0
2415.5959	10.00	-1.32	162517.872	1.0	166656.508	1.0
2415.9333	14.00	-2.63	57798.072	2.0	61936.130	1.0
2416.0028	7.00	-3.69	111853.061	1.5	115991.000	2.5
2416.0547	28.01	-1.90	112686.300	2.5	116824.150	2.5
2416.1429	20.00	-4.31	42170.558	3.0	46308.257	2.0
2416.2650	13.02	.14	191484.230	.5	195621.720	.5
2416.3643	15.00	-1.18	65787.380	3.5	69924.700	2.5
2416.4168	28.01	-3.43	130197.230	1.5	134334.460	1.5
2416.4927	28.01	-3.01	95017.710	4.5	99154.810	4.5
2416.5868	7.00	-4.72	111853.061	1.5	115990.000	.5
2416.5868	7.00	-2.92	111853.061	1.5	115990.000	1.5
2416.5920	24.00	-3.34	44080.900	2.0	48217.830	2.0
2416.6154	23.00	-2.92	32846.740	2.5	36983.630	1.5
2416.7626	22.00	-4.01	41585.240	3.0	45721.878	4.0
2416.8608	28.01	.16	130470.900	4.5	134607.370	4.5
2416.9017	13.01	-.43	142362.800	3.0	146499.200	4.0
2417.1086	17.00	-2.75	97667.396	3.5	101803.442	2.5
2417.3189	20.00	-2.37	36554.749	1.0	40690.435	0.0
2417.4271	20.00	-4.44	42170.558	3.0	46306.059	3.0
2417.4744	28.01	-3.59	116145.690	3.5	120281.110	4.5
2417.6381	9.00	-1.31	125637.690	2.5	129772.830	2.5
2417.6697	26.00	-4.21	49604.402	5.0	53739.488	5.0
2417.6907	6.00	-1.79	84950.360	2.0	89085.410	1.0
2417.7007	20.00	-3.37	42171.026	4.0	46306.059	3.0
2417.7200	13.01	-.96	142362.800	2.0	146497.800	3.0
2417.7200	13.01	-1.87	142362.800	3.0	146497.800	3.0
2417.7375	26.01	-3.52	96357.070	3.5	100492.040	3.5
2417.7375	6.00	-2.97	78116.740	1.0	82251.710	0.0
2417.8680	20.00	-4.05	39340.080	2.0	43474.827	2.0
2417.9258	17.00	-4.38	96731.172	3.5	100865.820	2.5
2417.9890	23.00	-3.10	32891.060	3.5	37025.600	3.5
2418.0685	37.00	-1.11	25700.536	0.0	29836.068	0.0
2418.1762	14.00	-2.34	58786.860	3.0	62921.080	2.0
2418.2639	23.00	-2.83	38003.930	1.5	42138.000	2.5
2418.3633	13.01	-1.50	142362.800	2.0	146496.700	2.0
2418.3633	13.01	-.77	142362.800	1.0	146496.700	2.0
2418.3633	13.01	-3.04	142362.800	3.0	146496.700	2.0
2418.4218	15.00	-1.35	72741.600	1.5	76875.400	1.5
2418.4394	25.00	-2.51	59290.230	3.5	63424.000	3.5
2418.6353	20.00	-4.39	42170.214	2.0	46303.649	2.0
2418.8367	20.00	-3.49	42170.558	3.0	46303.649	2.0
2418.8548	12.01	-1.05	108900.030	2.5	113033.090	1.5
2418.8958	22.00	-3.71	35652.950	3.0	39785.940	4.0
2418.9426	28.01	-4.26	101366.140	2.5	105499.050	3.5
2418.9485	12.01	-2.00	108900.190	1.5	113033.090	1.5
2419.1768	14.01	.07	118523.120	1.5	122655.630	2.5
2419.2177	14.01	-1.07	118523.190	2.5	122655.630	2.5
2419.2880	14.01	.23	118523.190	2.5	122655.510	3.5
2419.3348	28.01	-2.83	130184.610	5.5	134316.850	6.5
2419.6100	18.01	-.38	199981.940	1.5	204113.710	1.5
2419.6165	20.00	-3.60	42170.214	2.0	46301.973	1.0
2419.6276	6.00	-1.58	84950.360	2.0	89082.100	3.0
2420.0610	28.01	-4.79	129842.330	2.5	133973.330	2.5
2420.0669	27.00	-2.54	48571.770	.5	52702.760	1.5
2420.1313	25.00	.49	46026.750	4.5	50157.630	3.5
2420.3950	28.00	-2.78	44336.100	4.0	48466.530	5.0
2420.4243	28.01	-3.45	130197.230	1.5	134327.610	2.5
2420.4419	29.01	-2.31	137073.750	2.0	141204.100	3.0
2420.4712	23.00	-2.77	33976.020	1.5	38106.320	2.5
2420.5649	9.02	-1.75	440359.260	3.5	444489.400	2.5
2420.6118	12.01	-1.30	108900.190	1.5	113030.250	.5
2420.6781	10.00	-4.16	168967.353	1.0	173097.300	0.0
2420.7760	28.01	-4.93	130206.900	4.5	134336.680	4.5
2420.7760	28.01	-4.18	130206.900	4.5	134336.680	5.5
2420.8597	14.00	-4.43	60487.103	1.0	64616.740	2.0
2420.8697	10.01	-4.47	313652.170	1.5	317781.790	1.5
2420.9166	6.00	-2.40	84950.360	2.0	89079.900	2.0
2421.1395	12.01	-.45	110203.580	.5	114332.740	1.5
2421.1512	24.00	-4.35	44080.900	2.0	48210.040	1.0
2421.1676	17.00	-4.15	97674.330	2.5	101803.442	2.5
2421.2098	28.01	-4.76	130187.810	6.5	134316.850	6.5
2421.2391	28.01	-2.76	130187.810	6.5	134316.800	7.5
2421.2860	24.00	-3.24	44088.920	1.0	48217.830	2.0
2421.3799	9.00	-.34	129484.660	1.5	133613.410	.5
2421.9430	28.01	-4.10	130208.890	3.5	134336.680	4.5
2421.9430	28.01	-4.02	130205.620	5.5	134333.410	6.5
2421.9430	28.01	-4.29	130205.620	5.5	134333.410	5.5
2421.9840	6.00	-2.92	84032.150	1.0	88159.870	0.0
2422.0545	15.00	.16	74301.700	2.5	78429.300	3.5
2422.2946	14.00	-1.21	57468.239	2.0	61595.430	1.0
2422.3010	25.01	-4.06	72247.380	3.0	76374.560	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2422.3303	24.00	-4.36	44534.460	4.0	48661.590	3.0
2422.3479	15.00	-1.33	76173.400	3.5	80300.500	3.5
2422.5005	28.01	-4.03	116145.690	3.5	120272.530	4.5
2422.5123	28.01	-.07	130480.550	3.5	134607.370	4.5
2422.5240	15.00	-4.31	78069.000	1.5	82195.800	1.5
2422.6121	28.01	-4.06	130197.230	1.5	134323.880	1.5
2422.6825	28.01	.27	130470.900	4.5	134597.430	5.5
2422.6943	28.01	-4.67	130206.900	4.5	134333.410	5.5
2422.7001	30.02	-.12	260878.800	3.0	265005.300	2.0
2422.7588	13.01	.28	145126.500	2.0	149252.900	3.0
2422.7618	14.00	-1.33	54185.264	1.0	58311.659	0.0
2422.7788	26.00	-4.45	47092.693	3.0	51219.059	3.0
2422.7882	10.00	-4.61	168355.510	1.0	172481.860	1.0
2422.8293	28.01	-4.51	116145.690	3.5	120271.970	2.5
2422.8645	28.01	-4.69	130205.620	5.5	134331.840	4.5
2422.9350	13.01	-.02	146185.000	2.0	150311.100	3.0
2422.9350	13.01	-.93	146185.000	3.0	150311.100	3.0
2422.9761	23.00	-3.97	20789.130	2.5	24915.160	1.5
2423.0055	18.01	-4.84	205211.890	5.5	209337.870	4.5
2423.0818	27.00	-3.12	43398.620	3.5	47524.470	4.5
2423.1523	27.00	-3.74	48334.370	1.5	52460.100	2.5
2423.1523	6.00	-3.37	85399.810	2.0	89525.540	1.0
2423.5682	14.00	-.77	56690.903	2.0	60815.925	2.0
2423.7281	12.01	-1.15	110207.990	1.5	114332.740	1.5
2423.7633	12.01	-.20	110207.990	1.5	114332.680	2.5
2423.9166	14.00	-1.44	50189.389	2.0	54313.818	1.0
2424.1688	13.01	-1.15	145128.900	3.0	149252.900	3.0
2424.1688	13.01	-3.83	145128.900	3.0	149252.900	4.0
2424.1688	13.01	.41	145128.900	3.0	149252.900	4.0
2424.2429	22.00	-1.21	33700.874	4.0	37824.748	4.0
2424.4040	15.00	-2.24	76425.200	2.5	80548.800	2.5
2424.4734	14.00	-1.92	45276.188	1.0	49399.670	1.0
2424.5580	22.00	-2.67	34327.960	1.0	38451.298	2.0
2424.6097	14.00	-1.71	56733.380	0.0	60856.630	1.0
2424.6215	10.00	-4.70	168358.630	1.0	172481.860	1.0
2424.6862	28.01	-3.77	116145.690	3.5	120268.810	3.5
2424.7626	27.00	-4.69	51160.030	2.5	55283.020	2.5
2424.7744	22.01	-4.98	59321.790	2.5	63444.760	3.5
2424.7862	28.01	-3.97	130208.890	3.5	134331.840	4.5
2424.9638	10.00	-.31	159534.620	1.0	163657.268	1.0
2425.2450	55.00	.07	21946.660	0.0	26069.955	0.0
2425.6687	21.00	-3.92	34480.050	2.5	38601.500	1.5
2425.6981	18.01	-.35	186890.950	2.5	191012.350	1.5
2425.8188	7.00	-4.45	112319.805	1.5	116441.000	.5
2425.8188	7.00	-3.75	112319.805	1.5	116441.000	1.5
2425.8188	7.00	-3.84	112319.805	1.5	116441.000	2.5
2425.8276	28.01	-4.85	130215.500	4.5	134336.680	4.5
2425.8276	28.01	-4.84	130215.500	4.5	134336.680	5.5
2425.8629	24.00	-3.52	44088.920	1.0	48210.040	1.0
2425.9200	22.00	-3.43	37659.927	3.0	41780.950	4.0
2425.9277	14.03	-.15	250008.020	2.5	254129.030	3.5
2425.9806	28.01	-2.28	101740.270	3.5	105861.190	2.5
2426.0513	13.01	-1.02	145132.100	4.0	149252.900	4.0
2426.0513	13.01	-1.16	145132.100	4.0	149252.900	4.0
2426.0513	13.01	.51	145132.100	4.0	149252.900	5.0
2426.0513	13.01	-2.58	145132.100	4.0	149252.900	3.0
2426.1502	7.00	-1.67	111501.368	1.5	115622.000	2.5
2426.2974	14.00	-4.66	60496.358	2.0	64616.740	2.0
2426.5583	7.00	-2.55	111853.061	1.5	115973.000	1.5
2426.6325	10.00	-3.87	168355.510	1.0	172475.323	2.0
2426.7344	17.00	-2.87	97739.320	1.5	101858.960	2.5
2426.9229	6.00	-1.61	85399.810	2.0	89519.130	3.0
2426.9995	22.00	-3.76	34535.040	2.0	38654.230	1.0
2427.0290	17.00	-1.25	92194.190	1.5	96313.330	1.5
2427.0696	14.00	-1.03	57328.789	1.0	61447.860	2.0
2427.0761	14.03	-1.45	250008.020	2.5	254127.080	2.5
2427.1468	14.03	-.31	250008.140	1.5	254127.080	2.5
2427.1940	22.00	-3.55	36200.940	5.0	40319.800	6.0
2427.2175	6.00	-1.94	84935.340	1.0	89054.160	2.0
2427.2293	13.01	-1.87	143170.000	1.0	147288.800	0.0
2427.2765	28.01	-4.22	130208.890	3.5	134327.610	2.5
2427.3177	28.01	-4.17	130208.890	3.5	134327.540	3.5
2427.7539	28.01	-4.25	130215.500	4.5	134333.410	5.5
2427.8777	13.01	-3.30	142179.800	1.0	146297.500	1.0
2427.8954	24.00	-2.71	31280.350	5.0	35398.020	4.0
2428.1490	24.00	-3.54	44092.800	0.0	48210.040	1.0
2428.2139	22.00	-1.37	18287.560	4.0	22404.690	3.0
2428.3855	26.00	-3.79	44415.057	4.0	48531.896	3.0
2428.5077	7.00	-1.72	111501.368	1.5	115618.000	.5
2428.5077	7.00	-1.54	111501.368	1.5	115618.000	1.5
2428.5077	7.00	-2.88	111501.368	1.5	115618.000	2.5
2428.5088	28.01	-1.02	103025.580	2.5	107142.210	1.5
2428.6132	28.00	-2.78	50458.187	1.0	54574.640	1.0
2428.6386	28.01	-4.13	95893.760	1.5	100010.170	.5
2428.7654	7.00	-4.79	112319.805	1.5	116436.000	1.5
2428.8805	15.00	-3.81	76192.300	1.5	80308.300	2.5
2428.9749	18.01	-2.18	196119.020	3.5	200234.860	2.5
2429.0723	14.00	-.89	56700.250	1.0	60815.925	2.0
2429.1343	18.01	-1.22	200880.520	3.5	204996.090	3.5
2429.3231	18.00	-3.39	120753.520	3.0	124868.770	3.0
2429.3231	18.00	-2.59	120753.520	3.0	124868.770	4.0
2429.4294	28.01	-3.56	95017.710	4.5	99132.780	5.5
2429.4708	15.00	-1.15	75104.600	.5	79219.600	.5
2429.4767	28.01	-3.92	130208.890	3.5	134323.880	2.5
2429.5239	21.00	-2.30	11557.640	2.5	15672.550	1.5
2429.8132	23.00	-2.39	34128.040	3.5	38242.460	3.5
2429.8723	23.00	-3.59	35012.910	.5	39127.230	1.5
2429.9313	28.01	-4.97	132846.530	3.5	136960.750	2.5
2429.9544	22.00	-3.79	40466.979	2.0	44581.160	2.0
2429.9550	19.00	-1.93	30274.280	.5	34388.460	1.5
2429.9963	28.01	-3.87	117972.470	3.5	122086.580	3.5
2430.0524	26.00	-4.13	43922.652	3.0	48036.667	2.0
2430.1322	19.00	-2.23	30274.280	.5	34388.160	.5
2430.2291	17.00	-3.38	95597.593	.5	99711.309	.5
2430.2385	30.02	.16	257796.000	5.0	261909.700	4.0
2430.2385	28.01	-2.12	100389.520	2.5	104503.220	2.5
2430.4323	14.00	-.95	57450.580	3.0	61563.952	4.0
2430.7703	13.01	-1.38	143170.000	1.0	147282.800	1.0
2430.7703	13.01	-2.47	143170.000	2.0	147282.800	1.0
2430.7703	13.01	-.90	143170.000	1.0	147282.800	2.0
2430.7703	13.01	-1.29	143170.000	2.0	147282.800	2.0
2430.7703	13.01	-.54	143170.000	2.0	147282.800	3.0
2430.7703	13.01	-1.17	143170.000	0.0	147282.800	1.0
2430.9654	22.00	.77	41895.150	5.0	46007.620	4.0
2431.0600	22.00	.66	41780.950	4.0	45893.260	3.0
2431.1841	26.01	-.97	83459.700	1.5	87571.800	2.5
2431.3041	14.00	-1.28	57450.580	3.0	61562.477	3.0
2431.4384	18.00	-3.26	120753.520	3.0	124865.190	2.0
2431.4638	26.00	-4.36	49627.861	4.0	53739.488	5.0
2431.5270	18.00	-2.71	120753.520	3.0	124865.040	3.0
2431.7814	6.00	-3.11	85399.810	2.0	89510.900	3.0
2431.9470	28.01	-4.97	130225.870	3.5	134336.680	4.5
2431.9470	6.00	-4.50	82251.710	0.0	86362.520	1.0
2432.0594	6.00	-3.27	85399.810	2.0	89510.430	2.0
2432.6394	26.02	-2.42	219162.420	6.0	223272.060	6.0
2432.7459	27.00	-4.89	47091.140	.5	51200.600	1.5
2433.1723	10.01	-2.25	302961.070	1.5	307069.810	1.5
2433.1782	18.01	-3.17	214832.170	3.5	218940.900	4.5
2433.2830	28.00	-4.80	50142.800	3.0	54251.353	3.0
2433.3291	14.00	-.48	60815.925	2.0	64924.400	3.0
2433.3511	26.00	-2.46	33412.706	3.0	37521.144	2.0
2433.9246	14.00	-2.81	59118.030	3.0	63225.500	2.0
2434.0845	15.00	-2.60	76192.300	1.5	80299.500	1.5
2434.1320	18.00	-2.19	120753.520	3.0	124860.640	4.0
2434.2025	16.00	-.75	70163.700	1.0	74270.701	0.0
2434.2387	28.01	-4.84	130227.520	2.5	134334.460	1.5
2434.3240	18.00	-4.94	118407.494	1.0	122514.290	1.0
2434.4402	17.00	-3.34	97739.040	.5	101845.640	1.5
2434.4550	14.00	-.48	57468.239	2.0	61574.814	3.0
2434.5060	22.00	-2.52	37852.021	1.0	41958.510	2.0
2434.6062	17.00	-3.43	97739.320	1.5	101845.640	1.5
2434.7717	14.00	-1.46	45293.629	2.0	49399.670	1.0
2434.7965	14.00	-.99	53362.240	3.0	57468.239	2.0
2434.8137	28.01	-4.78	130225.870	3.5	134331.840	4.5
2435.0391	28.01	-3.59	115209.850	3.5	119315.440	2.5
2435.0569	25.00	-1.88	57621.900	1.5	61727.460	2.5
2435.4188	16.00	-.87	70163.700	1.0	74268.650	1.0
2435.5469	14.00	-2.42	59917.336	2.0	64022.070	3.0
2435.6976	28.01	-3.62	116145.690	3.5	120250.170	3.5
2435.7451	28.01	-2.11	112719.750	3.5	116824.150	2.5
2435.8579	28.01	-4.09	116167.760	1.5	120271.970	2.5
2436.0038	14.00	-1.86	59917.336	2.0	64021.300	2.0
2436.0418	18.00	-4.87	120753.520	3.0	124857.420	2.0
2436.0436	16.00	-2.05	70163.700	1.0	74267.597	2.0
2436.0537	23.00	-4.11	39962.170	2.5	44066.050	3.5
2436.1012	6.00	-2.79	84950.360	2.0	89054.160	2.0
2436.3309	16.00	-.39	70165.237	2.0	74268.650	1.0
2436.5044	10.00	.19	158795.992	1.0	162899.113	2.0
2436.8553	27.00	-3.92	42988.120	3.5	47090.650	2.5
2436.9326	28.01	-2.83	132225.150	1.5	136327.550	1.5
2436.9564	16.00	-.87	70165.237	2.0	74267.597	2.0
2437.0692	23.00	-4.68	20812.990	1.5	24915.160	1.5
2437.1322	14.00	-3.87	59917.336	2.0	64019.400	3.0
2437.3188	18.01	-3.96	200032.230	1.5	204133.980	2.5
2437.3663	28.01	-4.46	130225.870	3.5	134327.540	3.5
2437.6456	55.00	-.84	21946.660	0.0	26048.979	0.0
2437.6813	27.00	-2.21	48615.560	2.5	52716.700	3.5
2437.8364	26.00	-2.02	47966.571	3.0	52067.450	2.0
2438.2925	14.00	-1.38	58774.368	3.0	62874.480	2.0
2438.3055	28.01	-4.12	130227.520	2.5	134327.610	2.5
2438.4768	17.00	-4.54	97703.640	1.5	101803.442	2.5
2438.6559	17.00	-4.04	97703.941	2.5	101803.442	2.5
2438.7338	18.01	-1.97	202155.860	2.5	206255.230	2.5
2438.8349	15.00	-4.39	78133.500	2.5	82232.700	2.5
2438.9367	14.00	-2.58	58775.451	2.0	62874.480	2.0
2438.9825	17.00	-1.56	95612.357	1.5	99711.309	.5
2439.0075	9.00	-.03	129484.660	1.5	133583.570	2.5
2439.4241	22.00	-3.28	42146.390	1.0	46244.600	2.0
2439.4390	26.00	-3.80	47271.999	1.0	51370.184	2.0
2439.4658	23.00	-4.25	32891.060	3.5	36989.200	2.5
2439.5212	10.00	-3.62	168967.353	1.0	173065.400	2.0
2439.6026	19.00	-1.20	30185.240	2.5	34283.150	1.5
2439.6289	26.00	-3.71	46600.800	1.0	50698.666	2.0
2439.6741	28.01	-1.90	101740.270	3.5	105838.060	3.5
2439.7932	18.00	-2.53	118512.170	0.0	122609.760	1.0
2439.9004	19.00	-2.15	30185.740	1.5	34283.150	1.5
2440.0671	6.00	-3.27	84984.970	3.0	89082.100	3.0
2440.1028	18.01	-1.05	200880.520	3.5	204977.590	2.5
2440.1267	19.00	-1.45	30185.740	1.5	34282.770	.5
2440.1833	11.00	-1.08	33200.675	.5	37297.610	1.5
2440.3929	10.00	-4.51	168378.740	2.0	172475.323	2.0
2440.5258	28.01	-4.69	130227.520	2.5	134323.880	1.5
2440.6330	23.02	-3.55	158239.700	2.5	162335.880	3.5
2440.6878	20.00	-.79	42919.053	2.0	47015.141	3.0
2440.9519	11.00	-1.39	33200.675	.5	37296.320	.5
2440.9596	7.00	-4.03	111501.368	1.5	115597.000	1.5
2441.0502	26.02	-2.60	198333.560	2.0	202429.040	1.0
2441.2648	6.00	-2.08	84103.100	2.0	88198.220	2.0
2441.3775	14.00	-2.43	59109.959	3.0	63204.890	2.0
2441.3781	6.00	-4.66	84984.970	3.0	89079.900	2.0
2441.4018	10.01	-.32	303928.100	.5	308022.990	.5
2441.4043	26.00	-3.93	47008.351	5.0	51103.237	5.0
2441.5826	16.00	-.12	70173.010	3.0	74267.597	2.0
2441.7180	18.00	-3.74	121191.920	2.0	125286.280	1.0
2441.7322	28.00	-2.83	50142.800	3.0	54237.136	4.0
2441.8921	22.00	-3.75	38764.832	3.0	42858.900	3.0
2441.9338	14.00	-3.48	59110.892	2.0	63204.890	2.0
2442.1116	28.01	-3.13	99559.330	2.5	103653.030	3.5
2442.1354	18.01	-1.58	203918.150	1.5	208011.810	1.5
2442.1963	26.00	-2.45	42911.897	5.0	47005.455	5.0
2442.5770	14.00	-2.81	58893.400	3.0	62986.320	2.0
2442.5889	19.02	-3.16	238455.100	.5	242548.000	.5
2442.6844	9.00	-.31	129484.660	1.5	133577.400	1.5
2442.7083	13.01	-.26	144638.900	2.0	148731.600	3.0
2442.7083	13.01	-1.17	144638.900	3.0	148731.600	3.0
2442.9411	28.01	-4.84	97273.830	2.5	101366.140	2.5
2442.9470	18.01	-1.34	214911.300	2.5	219003.600	2.5
2442.9590	9.00	.14	126282.580	1.5	130374.860	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2443.0366	27.00	-2.33	45105.590	3.5	49197.740	4.5
2443.3710	28.01	-4.35	132869.160	3.5	136960.750	2.5
2443.7418	17.00	-3.15	91089.450	3.5	95180.419	3.5
2443.8249	21.00	-3.64	34567.100	3.5	38657.930	2.5
2444.0214	26.00	-4.29	46889.126	4.0	50979.627	4.0
2444.0220	18.01	-.90	214911.300	2.5	219001.800	1.5
2444.1117	6.00	-2.92	83747.390	2.0	87837.740	1.0
2444.1117	6.00	-2.34	83747.390	2.0	87837.740	2.0
2444.3387	6.00	-2.45	77679.820	2.0	81769.790	2.0
2444.4941	18.01	.45	202155.860	2.5	206245.570	3.5
2444.5599	27.00	-3.81	49847.080	2.5	53936.680	2.5
2444.7990	6.00	-3.62	84103.100	2.0	88192.300	1.0
2444.8468	18.00	-4.07	118512.170	0.0	122601.290	1.0
2445.1877	27.00	-4.96	48546.070	1.5	52634.620	.5
2445.2409	10.00	-1.49	162517.872	1.0	166606.333	0.0
2445.5286	18.01	-4.34	196305.040	3.5	200393.020	4.5
2445.7219	17.00	-2.83	97666.650	4.5	101754.307	3.5
2445.7441	14.00	-2.14	58786.860	3.0	62874.480	2.0
2445.9953	27.00	-3.77	48615.560	2.5	52702.760	1.5
2446.0253	22.00	-4.14	41624.130	4.0	45711.280	4.0
2446.1683	17.00	-3.25	97667.396	3.5	101754.307	3.5
2446.2228	23.00	-3.20	32988.820	3.5	37075.640	4.5
2446.4700	3.00	.13	30925.000	0.0	35012.522	0.0
2446.8455	12.01	-.88	110203.580	.5	114289.360	.5
2447.0413	17.00	-.51	83894.037	3.5	87979.490	3.5
2447.0784	7.00	-1.89	111905.609	2.5	115991.000	2.5
2447.6182	24.00	-3.82	50890.150	2.0	54974.640	2.0
2447.6422	25.00	-4.13	59339.550	3.5	63424.000	3.5
2447.6775	7.00	-3.73	111905.609	2.5	115990.000	1.5
2447.6775	7.00	-3.48	111905.609	2.5	115990.000	2.5
2447.7357	17.00	-3.44	95597.593	.5	99681.887	1.5
2448.1948	14.00	-.89	57798.072	2.0	61881.600	1.0
2448.2416	28.00	-1.07	50689.490	2.0	54772.940	3.0
2448.2776	28.01	-4.76	96535.870	3.5	100619.260	4.5
2448.3621	26.00	-3.23	47966.571	3.0	52049.820	2.0
2448.5108	26.00	-3.78	47136.058	2.0	51219.059	3.0
2448.7345	18.00	-3.57	121270.682	2.0	125353.310	1.0
2448.7513	18.01	-4.57	210584.880	1.5	214667.480	2.5
2448.7813	26.00	-2.26	40594.413	4.0	44676.963	4.0
2448.9013	10.01	-1.08	302816.980	1.5	306899.330	2.5
2448.9907	37.00	-1.82	27835.020	0.0	31918.335	0.0
2449.0333	6.00	-2.86	84116.090	1.0	88198.220	2.0
2449.2072	9.00	-.26	126067.230	.5	130149.070	.5
2449.4233	18.01	-4.11	200032.230	1.5	204113.710	1.5
2449.4893	12.01	-.58	110207.990	1.5	114289.360	.5
2449.7685	14.00	-3.14	53387.334	1.0	57468.239	2.0
2450.0116	28.01	-4.55	116191.470	2.5	120271.970	2.5
2450.1017	12.00	-1.49	53134.642	2.0	57214.992	1.0
2450.1317	17.01	-3.53	147053.700	2.0	151134.000	1.0
2450.1827	17.00	-4.23	97674.092	3.5	101754.307	3.5
2450.1966	12.00	-.92	57017.078	0.0	61097.270	1.0
2450.3256	17.00	-4.64	97674.330	2.5	101754.307	3.5
2450.3599	6.00	-3.10	82251.710	0.0	86331.630	1.0
2450.4860	28.01	-4.90	129988.050	2.5	134067.760	1.5
2450.5341	6.00	-2.73	83747.390	2.0	87827.020	2.0
2450.5821	6.00	-1.90	83747.390	2.0	87826.940	3.0
2450.5845	12.00	-1.04	57017.724	1.0	61097.270	1.0
2450.5845	12.00	-.74	57017.724	1.0	61097.270	2.0
2450.7852	26.00	-4.49	46901.808	1.0	50981.020	0.0
2451.0146	10.01	-.72	303928.100	.5	308006.930	.5
2451.3662	12.00	-2.22	57019.025	2.0	61097.270	1.0
2451.3662	12.00	-1.22	57019.025	2.0	61097.270	2.0
2451.3662	12.00	-.30	57019.025	2.0	61097.270	3.0
2451.3933	27.00	-4.69	48837.720	.5	52915.920	.5
2451.6398	17.00	-1.03	90749.360	2.5	94827.150	2.5
2451.6879	28.01	-3.45	114836.630	3.5	118914.340	4.5
2451.7540	19.02	-2.37	242548.000	.5	246625.600	1.5
2451.8003	18.00	-3.91	121257.227	1.0	125334.750	0.0
2451.9104	28.01	-4.75	116191.470	2.5	120268.810	3.5
2451.9416	26.00	-4.91	47693.289	3.0	51770.577	3.0
2452.0486	18.01	-2.49	204515.000	.5	208592.110	.5
2452.2472	18.01	-2.86	204515.000	.5	208591.780	1.5
2452.2953	26.01	-1.54	83558.500	.5	87635.200	.5
2452.3952	17.00	-4.76	94314.206	1.5	98390.740	.5
2452.4276	6.00	-2.63	83761.260	3.0	87837.740	2.0
2452.5480	23.00	-4.17	34030.040	1.5	38106.320	2.5
2452.5901	6.00	-2.48	84116.090	1.0	88192.300	1.0
2452.6081	18.01	-1.56	192556.840	2.5	196633.020	2.5
2452.7525	22.00	-2.48	37976.780	2.0	42052.720	3.0
2453.1678	18.01	-2.27	196076.390	1.5	200151.640	1.5
2453.2099	9.00	-4.40	130016.100	2.5	134091.280	1.5
2453.2641	14.00	-.48	58893.400	3.0	62968.490	4.0
2453.5471	23.00	-4.48	34167.840	2.5	38242.460	3.5
2453.6676	9.00	-2.79	126067.230	.5	130141.650	1.5
2453.7338	28.01	-4.73	103663.500	1.5	107737.810	1.5
2454.0066	17.00	-.96	91538.500	1.5	95612.357	1.5
2454.0916	26.00	-4.11	45061.287	3.0	49135.003	3.0
2454.0952	28.01	-2.16	101366.140	2.5	105439.850	1.5
2454.1735	21.00	-3.41	33707.250	2.5	37780.830	1.5
2454.2819	13.01	-1.70	143269.800	3.0	147343.200	2.0
2454.6074	21.00	-1.22	17012.980	2.5	21085.840	3.5
2454.6616	9.00	-.24	129484.660	1.5	133557.430	2.5
2454.8183	6.00	-1.35	83747.390	2.0	87819.900	3.0
2454.8847	15.00	-1.75	75689.200	1.5	79761.600	2.5
2455.1469	18.00	-3.51	118407.494	1.0	122479.459	1.0
2455.3429	27.00	-4.35	47128.960	2.5	51200.600	1.5
2455.3971	10.01	-3.48	303237.910	1.5	307309.460	.5
2455.4273	8.01	-1.97	257797.900	1.5	261869.400	2.5
2455.6806	6.00	-2.39	84121.220	0.0	88192.300	1.0
2455.7349	23.00	-4.93	20767.570	3.5	24838.560	3.5
2455.9581	27.00	-4.07	47128.960	2.5	51199.580	3.5
2455.9702	13.01	-3.53	138536.400	3.0	142607.000	2.0
2455.9883	18.01	-.02	200880.520	3.5	204951.090	3.5
2456.0896	22.00	-3.64	37824.748	4.0	41895.150	5.0
2456.1753	28.01	-4.69	128960.740	5.5	133031.000	4.5
2456.3021	28.01	-2.66	116833.150	4.5	120903.200	3.5
2456.5537	12.00	-.87	53134.642	2.0	57204.275	2.0
2456.5537	12.00	.11	53134.642	2.0	57204.275	3.0
2456.6159	17.00	-1.73	95612.357	1.5	99681.887	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2456.6214	12.00	-.77	53134.642	2.0	57204.163	3.0
2456.7548	23.01	-3.89	32420.040	0.0	36489.340	1.0
2456.8211	6.00	-4.75	84984.970	3.0	89054.160	2.0
2456.8755	13.01	.26	146274.400	2.0	150343.500	3.0
2457.1171	15.00	.02	74271.800	1.5	78340.500	2.5
2457.1473	9.00	-3.21	130016.100	2.5	134084.750	2.5
2457.4233	14.00	-1.41	50189.389	2.0	54257.582	3.0
2457.6909	25.01	-3.92	72306.810	2.0	76374.560	2.0
2457.8057	28.01	-1.88	122790.410	4.5	126857.970	5.5
2457.9079	7.00	-3.37	111905.609	2.5	115973.000	1.5
2458.0474	20.00	-3.25	44762.620	2.0	48829.780	2.0
2458.0474	20.00	-2.34	44762.620	2.0	48829.780	1.0
2458.0474	20.00	-4.62	44762.620	2.0	48829.780	3.0
2458.1798	20.00	-2.34	44762.839	3.0	48829.780	2.0
2458.1798	20.00	-3.08	44762.839	3.0	48829.780	3.0
2458.2197	14.00	-2.47	60815.925	2.0	64882.800	2.0
2458.3484	20.00	-2.01	44763.118	4.0	48829.780	3.0
2458.6519	23.00	-4.07	39999.890	2.5	44066.050	3.5
2458.8938	22.00	-4.78	41624.130	4.0	45689.890	3.0
2458.8939	6.00	-2.66	83761.260	3.0	87827.020	2.0
2458.9422	28.01	-3.53	132225.150	1.5	136290.830	.5
2458.9423	6.00	-1.59	83761.260	3.0	87826.940	3.0
2459.1787	22.00	-3.74	41895.150	5.0	45960.439	6.0
2459.2084	22.00	.67	42092.520	4.0	46157.760	5.0
2459.3294	18.01	-.78	192556.840	2.5	196621.880	3.5
2459.3536	28.01	-4.95	129988.050	2.5	134053.050	2.5
2459.4322	23.00	-4.84	40001.180	3.5	44066.050	3.5
2459.6682	28.01	-4.69	128966.520	4.5	133031.000	4.5
2459.6682	28.01	-4.77	128966.520	5.5	133031.000	4.5
2459.8619	27.00	-4.67	41041.430	3.5	45105.590	3.5
2459.8800	28.01	-4.29	130900.650	2.5	134964.780	1.5
2459.9842	10.00	-1.73	165912.782	1.0	169976.740	0.0
2459.9950	14.02	.10	230364.460	0.0	234428.400	1.0
2460.0556	22.00	-3.90	35577.140	2.0	39640.980	3.0
2460.0858	26.00	-1.40	49737.110	5.0	53800.900	5.0
2460.2917	28.01	-2.71	132225.150	1.5	136288.600	2.5
2460.3946	25.00	-2.47	59360.720	2.5	63424.000	3.5
2460.4431	15.00	-4.90	78132.600	.5	82195.800	1.5
2460.6120	18.00	-4.39	121011.979	1.0	125074.900	2.0
2460.6550	27.00	-2.53	48571.770	.5	52634.620	.5
2461.3093	18.01	-1.21	196089.870	2.5	200151.640	1.5
2461.3372	56.01	-.81	45949.496	0.0	50012.328	0.0
2461.3881	28.01	-2.60	127867.130	4.5	131928.770	4.5
2461.4123	14.00	-2.39	58893.400	3.0	62955.000	2.0
2461.7396	14.00	-2.26	58893.400	3.0	62954.460	3.0
2462.0057	18.00	-4.27	121011.979	1.0	125072.600	1.0
2462.0549	27.00	-4.00	44658.030	1.5	48718.570	2.5
2462.3520	9.00	-.48	125877.280	1.5	129937.330	1.5
2462.3520	10.01	-1.76	302839.280	2.5	306899.330	2.5
2462.4672	6.00	-3.08	84032.150	1.0	88092.010	1.0
2462.5789	20.00	-1.09	41679.008	1.0	45738.684	1.0
2462.6856	28.01	-4.49	131686.560	4.5	135746.060	3.5
2462.7523	25.00	-4.77	58075.060	5.5	62134.450	5.5
2462.7632	17.00	-3.76	95706.534	1.5	99765.906	2.5
2462.9326	17.00	-4.62	91538.500	1.5	95597.593	.5
2462.9768	23.00	-3.09	37940.080	.5	41999.100	1.5
2462.9890	13.01	-1.20	143170.000	1.0	147229.000	1.0
2462.9890	13.01	-.90	143170.000	2.0	147229.000	1.0
2462.9890	13.01	-1.59	143170.000	0.0	147229.000	1.0
2463.0982	28.01	.31	130480.550	3.5	134539.370	2.5
2463.1467	6.00	-.50	83761.260	3.0	87820.000	4.0
2463.1710	28.01	-4.07	116191.470	2.5	120250.170	3.5
2463.2074	6.00	-1.64	83761.260	3.0	87819.900	3.0
2463.7173	28.01	-4.00	116145.690	3.5	120203.490	2.5
2463.8533	18.00	-2.02	120600.944	2.0	124658.520	2.0
2463.8995	30.02	-.13	258178.300	4.0	262235.800	3.0
2464.0270	28.01	-1.63	131928.770	4.5	135986.060	3.5
2464.0331	18.01	-.89	200880.520	3.5	204937.800	4.5
2464.0629	17.00	-1.96	91343.500	2.5	95400.731	2.5
2464.1363	28.01	-4.69	96535.870	3.5	100592.980	3.5
2464.2074	7.00	-4.33	112294.007	.5	116351.000	.5
2464.3654	18.00	-.82	118651.447	1.0	122708.180	2.0
2464.4279	28.01	-.68	103025.580	2.5	107082.210	2.5
2464.6041	28.01	-.07	130470.900	4.5	134527.240	3.5
2464.6357	17.00	-1.29	84132.262	2.5	88188.550	1.5
2464.6892	15.00	-3.18	75705.400	3.5	79761.600	2.5
2465.1207	28.01	-3.18	94067.140	1.5	98122.630	.5
2465.3133	17.00	-3.15	91089.450	3.5	95144.623	2.5
2465.3395	28.01	-3.81	116167.760	1.5	120222.890	1.5
2465.3882	29.01	-1.13	133594.050	3.0	137649.100	2.0
2465.6447	18.00	-4.03	118459.662	1.0	122514.290	1.0
2465.8990	28.01	-1.70	116261.810	.5	120316.020	.5
2466.0632	25.01	-4.47	72320.620	1.0	76374.560	2.0
2466.3065	28.01	-2.69	100592.980	3.5	104646.520	3.5
2466.3236	14.00	-1.52	57541.918	1.0	61595.430	1.0
2466.3984	17.00	-3.50	91127.030	2.5	95180.419	3.5
2466.4282	28.01	-4.90	128960.740	5.5	133014.080	5.5
2466.4282	28.01	-4.37	128960.740	6.5	133014.080	5.5
2466.5134	29.01	-1.88	117928.480	1.0	121981.680	2.0
2467.2134	9.00	-.24	129607.070	.5	133659.120	.5
2467.2378	6.00	-4.81	85399.810	2.0	89451.820	1.0
2467.2664	26.00	-4.44	43325.946	3.0	47377.909	4.0
2467.4022	25.00	-4.33	58427.300	5.5	62479.040	4.5
2467.4546	26.00	-4.47	49108.876	4.0	53160.530	3.0
2467.5539	28.00	-1.79	45281.152	3.0	49332.643	4.0
2467.7921	18.01	-2.54	199679.760	2.5	203730.860	1.5
2467.8285	17.00	-2.91	97674.330	2.5	101725.370	1.5
2467.9120	26.00	-3.17	48163.427	2.0	52214.330	1.0
2468.2392	17.00	-3.92	97703.941	2.5	101754.307	3.5
2468.3977	18.00	-1.05	120600.944	2.0	124651.050	1.0
2468.6390	28.01	-4.13	129396.040	5.5	133445.750	4.5
2468.8652	22.00	-4.48	37852.021	1.0	41901.360	1.0
2469.0170	23.00	-4.07	38115.650	3.5	42164.740	3.5
2469.0841	18.01	-4.93	196089.870	2.5	200138.850	3.5
2469.1091	7.00	-2.34	111853.061	1.5	115902.000	2.5
2469.2384	28.00	-1.40	45122.460	1.0	49171.187	1.0
2469.2549	10.01	-.48	303974.290	1.5	308022.990	.5
2469.2775	18.00	-2.32	119212.930	3.0	123261.593	2.0
2469.3158	15.00	-.40	75353.400	1.5	79402.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2469.3219	6.00	-1.90	85399.810	2.0	89448.400	3.0
2469.3525	28.01	.08	131928.770	4.5	135977.310	4.5
2469.4488	12.00	-2.73	56968.218	3.0	61016.600	2.0
2469.4488	12.00	-1.40	56968.218	3.0	61016.600	3.0
2469.4488	12.00	-1.59	56968.218	3.0	61016.600	3.0
2469.4488	12.00	-.12	56968.218	3.0	61016.600	4.0
2469.4671	12.00	-1.36	56968.248	2.0	61016.600	2.0
2469.4671	12.00	-.45	56968.248	2.0	61016.600	3.0
2469.4671	12.00	-1.40	56968.248	2.0	61016.600	3.0
2469.4812	12.00	-.45	56968.271	1.0	61016.600	2.0
2469.4867	28.01	-3.66	114874.880	2.5	118923.200	3.5
2469.5043	22.00	-4.95	17540.205	3.0	21588.496	4.0
2469.6471	17.00	-2.43	91564.300	.5	95612.357	1.5
2469.7911	18.00	-4.90	121011.979	1.0	125059.800	2.0
2469.9327	26.00	-4.66	45061.287	3.0	49108.876	4.0
2469.9503	28.01	-4.90	128966.520	5.5	133014.080	5.5
2470.0419	56.01	.27	61636.000	0.0	65684.514	0.0
2470.2244	37.00	-1.78	27870.110	0.0	31918.325	0.0
2470.4795	28.00	-2.18	45281.152	3.0	49327.845	2.0
2470.4814	28.01	.19	130480.550	3.5	134527.240	3.5
2470.6364	22.00	-3.57	37538.804	2.0	41585.240	3.0
2470.7476	26.00	-4.71	49108.876	4.0	53155.130	4.0
2470.7805	15.00	-2.52	77843.900	2.5	81890.100	2.5
2470.9308	17.00	-1.10	91660.580	2.5	95706.534	1.5
2470.9882	29.01	-.23	135664.340	1.0	139710.200	2.0
2471.2753	28.01	-3.27	104503.220	2.5	108548.610	1.5
2471.6718	18.00	-4.89	122479.459	1.0	126524.200	0.0
2471.7115	18.00	-4.36	121068.804	1.0	125113.480	2.0
2471.9413	12.02	-2.13	582747.300	2.0	586791.600	2.0
2472.2054	14.00	-3.28	57798.072	2.0	61841.940	2.0
2472.2591	6.00	-3.60	84116.090	1.0	88159.870	0.0
2472.4114	14.00	-4.29	57468.239	2.0	61511.770	1.0
2472.4854	14.00	-1.13	58893.400	3.0	62936.810	4.0
2472.4915	26.01	-1.24	83558.500	.5	87601.900	1.5
2472.5784	26.00	-3.15	41018.029	2.0	45061.287	3.0
2472.7000	2.00	.04	191217.000	0.0	195261.162	0.0
2472.7759	28.00	-1.20	50689.490	2.0	54732.425	2.0
2472.8462	27.00	-2.89	47225.110	3.5	51267.930	4.5
2472.9405	12.00	-1.05	57017.724	1.0	61060.390	2.0
2472.9832	18.00	-4.62	120600.944	2.0	124643.540	1.0
2473.1276	14.00	-1.59	58893.400	3.0	62935.760	3.0
2473.1644	13.01	-.81	144780.200	2.0	148822.500	3.0
2473.6588	26.00	-4.68	47420.215	5.0	51461.707	4.0
2473.7365	12.00	-1.53	57019.025	2.0	61060.390	2.0
2473.8406	26.00	-4.84	34636.820	2.0	38678.015	2.0
2473.8988	17.01	-3.46	127726.900	1.0	131768.000	2.0
2474.0084	17.00	-2.15	95313.749	1.5	99354.670	1.5
2474.0151	18.01	-3.87	186470.280	1.5	190511.190	2.5
2474.1375	23.00	-2.43	34065.610	2.5	38106.320	2.5
2474.2661	17.01	-3.82	127726.900	1.0	131767.400	0.0
2474.5595	10.00	-2.27	167449.464	1.0	171489.485	1.0
2474.9129	18.00	-1.89	120619.076	2.0	124658.520	2.0
2475.0012	17.01	-2.68	147053.700	2.0	151093.000	3.0
2475.1238	15.00	-3.14	72386.100	2.5	76425.200	2.5
2475.1789	28.01	-1.74	113623.100	.5	117662.110	1.5
2475.3076	15.00	-1.67	74301.700	2.5	78340.500	2.5
2475.6012	26.00	-2.98	43922.652	3.0	47960.973	4.0
2475.9206	12.02	-1.60	582747.300	2.0	586785.100	3.0
2475.9697	22.00	-2.39	42206.880	2.0	46244.600	2.0
2475.9721	26.00	-4.06	44183.607	2.0	48221.323	1.0
2476.1168	28.01	-3.13	114836.630	3.5	118874.110	3.5
2476.2824	23.00	-2.82	33966.720	.5	38003.930	1.5
2476.3622	18.01	-1.93	186470.280	1.5	190507.360	1.5
2476.4051	28.01	-3.47	132729.480	2.5	136766.490	2.5
2476.4665	28.01	-3.44	117662.110	1.5	121699.020	1.5
2476.5462	23.00	-2.15	32988.820	3.5	37025.600	3.5
2476.5953	13.01	.13	146274.400	2.0	150311.100	3.0
2476.6567	28.00	-2.01	45122.460	1.0	49159.060	2.0
2476.7794	24.00	-4.47	50950.420	3.0	54986.820	3.0
2476.8162	28.01	-.25	122821.630	5.5	126857.970	5.5
2477.0622	7.00	-4.91	111853.061	1.5	115889.000	.5
2477.0622	7.00	-2.59	111853.061	1.5	115889.000	1.5
2477.0862	15.00	-2.55	76425.200	2.5	80461.100	3.5
2477.2458	23.02	-3.84	156344.000	1.5	160379.640	2.5
2477.3072	18.01	-2.32	196103.310	4.5	200138.850	3.5
2477.6676	18.00	-.30	118651.447	1.0	122686.400	2.0
2477.7186	23.00	-4.08	35092.360	1.5	39127.230	1.5
2477.7247	18.01	-3.81	206623.800	3.5	210658.660	2.5
2477.7904	18.00	-.55	118651.447	1.0	122686.200	1.0
2478.0686	29.01	-2.27	146215.700	1.0	150250.000	2.0
2478.1608	23.00	-4.57	39884.430	1.5	43918.580	2.5
2478.2222	9.00	-.30	129937.330	1.5	133971.380	1.5
2478.2904	7.00	-2.75	111853.061	1.5	115887.000	1.5
2478.2904	7.00	-2.44	111853.061	1.5	115887.000	2.5
2478.3439	17.00	-1.67	96313.330	1.5	100347.182	2.5
2478.3758	30.02	-1.55	257796.000	5.0	261829.800	5.0
2478.4790	7.00	-1.74	111501.368	1.5	115535.000	2.5
2478.5521	14.00	-1.45	57583.657	4.0	61617.170	4.0
2478.6646	22.00	-4.85	39640.980	3.0	43674.310	4.0
2478.6873	17.00	-2.14	91564.300	.5	95597.593	.5
2478.9522	10.00	-1.74	166656.508	1.0	170689.370	0.0
2479.0174	10.00	-4.88	167000.034	4.0	171032.790	3.0
2479.0457	6.00	-3.37	84103.100	2.0	88135.810	3.0
2479.0524	28.00	-1.44	45281.152	3.0	49313.851	3.0
2479.0887	10.01	-.53	303974.290	1.5	308006.930	.5
2479.1041	18.00	-4.10	118407.494	1.0	122440.109	2.0
2479.2024	28.00	-2.87	47424.830	1.0	51457.285	0.0
2479.4982	18.00	-2.75	120619.076	2.0	124651.050	1.0
2479.5560	9.00	-1.60	130059.400	.5	134091.280	1.5
2479.5560	18.01	-.36	186074.350	2.5	190106.230	1.5
2479.6790	23.00	-2.81	38106.320	2.5	42138.000	2.5
2479.6851	6.00	-2.92	85399.810	2.0	89431.480	2.0
2479.8020	15.00	-2.96	66360.120	1.5	70391.600	2.5
2479.8469	12.00	-.58	47841.119	0.0	51872.526	1.0
2479.9066	28.01	-.95	131928.770	4.5	135960.080	4.5
2479.9773	7.00	-4.03	112319.805	1.5	116351.000	.5
2480.0973	15.00	-.34	75484.400	2.5	79515.400	3.5
2480.2739	14.00	-.81	57583.657	4.0	61614.370	5.0
2480.3434	12.02	-3.29	582747.300	2.0	586777.900	3.0
2480.6819	18.01	.07	185624.730	3.5	189654.780	2.5
2480.9220	26.02	-3.91	114325.350	5.0	118355.010	6.0
2481.2484	6.00	-3.13	84032.150	1.0	88061.280	1.0
2481.2669	18.01	-2.20	214974.500	2.5	219003.600	2.5
2481.2958	18.00	-2.58	121257.227	1.0	125286.280	1.0
2481.3038	18.01	-.89	214974.560	3.5	219003.600	2.5
2481.5551	7.00	-3.37	111501.368	1.5	115530.000	.5
2481.5551	7.00	-1.97	111501.368	1.5	115530.000	1.5
2481.6413	14.00	-3.70	58774.368	3.0	62802.860	3.0
2481.6795	22.00	-4.73	35757.510	4.0	39785.940	4.0
2481.7165	6.00	-2.05	83798.570	4.0	87826.940	3.0
2481.7288	9.00	-1.51	129937.330	1.5	133965.680	2.5
2481.8212	30.02	-.71	257908.200	1.0	261936.400	1.0
2481.8754	12.00	-.10	47844.414	1.0	51872.526	1.0
2481.9999	23.00	-2.65	33976.020	1.5	38003.930	1.5
2482.0615	27.00	-3.41	48828.870	2.5	52856.680	3.5
2482.1047	20.01	-2.48	86727.060	2.5	90754.800	2.5
2482.1047	20.01	-1.18	86727.060	3.5	90754.800	2.5
2482.1780	18.00	-3.78	121011.979	1.0	125039.600	1.0
2482.3142	28.01	-1.40	100475.820	3.5	104503.220	2.5
2482.3759	18.01	-1.05	214974.500	2.5	219001.800	1.5
2482.4005	28.01	-2.01	100619.260	4.5	104646.520	3.5
2482.4128	28.01	.61	131928.770	4.5	135956.010	5.5
2482.4991	23.00	-4.78	40038.950	4.5	44066.050	3.5
2482.5115	18.01	-2.78	205221.470	1.5	209248.550	2.5
2482.5669	18.01	-2.51	206631.670	2.5	210658.660	2.5
2482.6347	18.01	-3.86	206631.670	2.5	210658.550	1.5
2482.6471	20.01	-1.33	86727.060	2.5	90753.920	1.5
2483.0430	13.00	-4.09	41319.380	3.5	45345.598	2.5
2483.0726	28.01	-4.87	129419.580	4.5	133445.750	4.5
2483.0726	14.00	-3.57	60856.630	1.0	64882.800	2.0
2483.2268	18.01	-.63	201030.300	.5	205056.220	1.5
2483.4587	17.00	-2.84	91680.990	1.5	95706.534	1.5
2483.4994	14.00	-2.14	57798.072	2.0	61823.550	2.0
2483.6999	17.00	-1.54	90948.530	1.5	94973.683	.5
2483.7388	22.00	-3.97	40556.070	1.0	44581.160	2.0
2483.8252	22.00	-2.45	38159.710	3.0	42184.660	4.0
2483.8548	20.00	-2.66	44804.878	3.0	48829.780	2.0
2483.8561	18.01	-4.40	186171.260	.5	190196.160	.5
2483.8807	27.00	-4.81	50925.110	1.5	54949.970	1.5
2483.9227	13.00	-4.24	41319.372	2.5	45344.164	1.5
2484.1251	18.00	-1.12	120619.076	2.0	124643.540	1.0
2484.1998	22.00	-4.57	38699.767	2.0	42724.110	2.0
2484.2387	26.02	-4.78	202156.130	2.0	206180.410	3.0
2484.2758	24.00	-3.02	50950.420	3.0	54974.640	2.0
2484.2819	25.00	-4.21	58110.240	4.5	62134.450	5.5
2484.5048	10.00	-1.57	167449.464	1.0	171473.313	2.0
2484.7821	30.02	-2.32	260981.900	3.0	265005.300	2.0
2484.9180	14.02	-.21	230364.460	0.0	234387.640	1.0
2484.9921	28.01	-3.59	114874.880	2.5	118897.940	2.5
2485.2565	7.00	-2.73	111501.368	1.5	115524.000	.5
2485.2565	7.00	-2.84	111501.368	1.5	115524.000	1.5
2485.2565	7.00	-1.88	111501.368	1.5	115524.000	2.5
2485.3875	28.01	-3.17	130942.360	1.5	134964.780	1.5
2485.6105	26.00	-4.69	47197.000	2.0	51219.059	3.0
2485.7645	9.00	.59	125637.690	2.5	129659.500	3.5
2485.7768	28.01	-4.45	116167.760	1.5	120189.550	.5
2485.7768	22.00	.53	41985.830	3.0	46007.620	4.0
2485.8201	28.01	-3.55	129424.030	5.5	133445.750	4.5
2485.9993	6.00	-.74	83798.570	4.0	87820.000	4.0
2486.0401	12.00	.12	47851.162	2.0	51872.526	1.0
2486.0612	6.00	-2.32	83798.570	4.0	87819.900	3.0
2486.0921	23.00	-4.14	19189.280	1.5	23210.560	2.5
2486.2033	15.00	-.88	64239.500	.5	68260.600	.5
2486.2095	15.01	-3.37	103340.010	2.0	107361.100	3.0
2486.3889	15.00	-.60	72741.600	1.5	76762.400	.5
2486.4878	28.01	-.94	122837.330	4.5	126857.970	5.5
2486.6362	30.02	-.35	260805.900	2.0	264826.300	1.0
2486.8212	26.00	-4.45	44511.795	2.0	48531.896	3.0
2486.8218	13.01	-1.81	143262.700	2.0	147282.800	2.0
2486.8218	13.01	-1.08	143262.700	2.0	147282.800	1.0
2486.8218	13.01	-3.36	143262.700	2.0	147282.800	3.0
2486.9771	22.00	-3.31	37852.021	1.0	41871.870	2.0
2486.9888	18.01	-4.79	196119.020	3.5	200138.850	3.5
2487.0074	21.00	-2.44	17012.980	2.5	21032.780	2.5
2487.0092	18.00	-3.55	118459.662	1.0	122479.459	1.0
2487.0631	23.00	-4.37	35379.110	3.5	39398.820	3.5
2487.0952	22.00	-4.86	18061.540	1.0	22081.198	2.0
2487.1689	22.00	-3.90	37852.021	1.0	41871.560	0.0
2487.2178	23.02	-4.77	160379.640	2.5	164399.100	3.5
2487.7624	27.00	-3.37	48753.720	1.5	52772.300	2.5
2487.8119	13.01	-1.83	144781.900	3.0	148800.400	3.0
2487.8119	13.01	-.42	144781.900	3.0	148800.400	4.0
2487.9605	27.00	-2.43	44183.340	4.5	48201.600	3.5
2488.2392	28.01	-4.39	118803.820	6.5	122821.630	5.5
2488.3631	6.00	-1.52	83820.130	1.0	87837.740	1.0
2488.3631	6.00	-2.16	83820.130	1.0	87837.740	2.0
2488.3736	17.00	-4.36	91127.030	2.5	95144.623	2.5
2488.4311	15.00	-1.22	75104.600	.5	79122.100	1.5
2488.6542	24.00	-3.00	50654.760	2.0	54671.900	1.0
2488.8772	9.00	-.13	129607.070	.5	133623.850	1.5
2489.1499	27.00	-3.47	48443.760	2.5	52460.100	2.5
2489.1747	23.00	-4.08	35225.040	2.5	39241.340	2.5
2489.3606	14.00	-3.52	58786.860	3.0	62802.860	3.0
2489.4536	6.00	-.27	83747.390	2.0	87763.240	3.0
2489.5459	14.00	-3.26	50189.389	2.0	54205.090	2.0
2489.5745	14.00	-4.24	56690.903	2.0	60706.558	1.0
2489.5807	10.00	-1.24	165828.175	2.0	169843.820	2.0
2489.5900	28.01	-.63	131928.770	4.5	135944.400	3.5
2489.6582	18.01	-3.91	203730.860	1.5	207746.380	2.5
2489.8567	15.00	-.32	75705.400	3.5	79720.600	4.5
2490.0861	6.00	-1.20	83747.390	2.0	87762.220	2.0
2490.1481	6.00	-.60	83747.390	2.0	87762.120	3.0
2490.2225	22.01	-4.63	65312.710	2.5	69327.320	1.5
2490.3342	14.00	-3.67	59190.460	1.0	63204.890	2.0
2490.6133	14.00	-2.06	58788.880	4.0	62802.860	3.0
2490.7139	14.00	-3.04	59191.072	2.0	63204.890	2.0
2490.7393	28.00	-3.06	46522.965	2.0	50536.742	1.0
2490.7406	26.00	-4.36	42991.680	5.0	47005.455	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2490.7580	14.00	-2.37	57583.657	4.0	61597.404	3.0
2490.8324	14.00	-1.81	56690.903	2.0	60704.530	3.0
2490.9733	30.02	-1.95	257908.200	1.0	261921.600	2.0
2491.2216	13.01	-2.18	143269.800	3.0	147282.800	3.0
2491.2216	13.01	-1.28	143269.800	3.0	147282.800	2.0
2491.2924	18.00	-3.21	122282.134	2.0	126295.020	3.0
2491.3668	18.00	-2.67	122282.134	2.0	126294.900	3.0
2491.4761	18.00	-2.56	116999.389	2.0	121011.979	1.0
2491.4886	13.02	.61	201375.200	2.5	205387.770	1.5
2491.6501	17.00	-2.21	97530.130	2.5	101542.440	1.5
2491.6749	28.01	-2.25	100490.950	1.5	104503.220	2.5
2491.7121	13.02	-.34	201375.560	1.5	205387.770	1.5
2491.8301	28.01	-3.77	116191.470	2.5	120203.490	2.5
2491.9898	26.00	-4.65	47693.289	3.0	51705.052	2.0
2492.0040	29.01	-.61	116080.460	3.0	120092.200	2.0
2492.0848	22.00	-2.81	37976.780	2.0	41988.390	3.0
2492.2929	10.00	-2.06	165828.175	2.0	169839.450	1.0
2492.4681	7.00	-4.21	112294.007	.5	116305.000	1.5
2492.4886	10.01	-3.88	313652.170	1.5	317663.130	1.5
2492.5620	14.00	-1.43	60010.458	1.0	64021.300	2.0
2492.6502	24.00	-3.20	50661.200	0.0	54671.900	1.0
2492.8603	28.00	-2.82	50689.490	2.0	54699.852	3.0
2492.9113	23.02	-3.84	156671.200	2.5	160681.480	3.5
2492.9735	28.01	-1.92	131620.450	1.5	135630.630	2.5
2493.1047	18.00	-3.44	117151.387	1.0	121161.356	1.0
2493.1414	18.00	-2.64	122514.290	1.0	126524.200	0.0
2493.2165	14.00	-1.66	57295.881	0.0	61305.670	1.0
2493.4771	14.02	-4.21	254004.000	2.0	258013.370	3.0
2493.4958	22.00	-3.64	34535.040	2.0	38544.380	3.0
2493.5206	30.02	.06	260623.100	4.0	264632.400	3.0
2493.6264	24.00	-4.21	50662.770	1.0	54671.900	1.0
2493.7010	18.01	-4.95	204133.980	2.5	208142.990	3.5
2493.7041	26.00	-3.98	47452.702	4.0	51461.707	4.0
2493.7757	18.01	-4.54	170400.940	2.5	174409.830	1.5
2493.7881	19.00	-1.93	30274.280	.5	34283.150	1.5
2493.8566	10.01	-1.05	302890.570	2.5	306899.330	2.5
2494.0245	19.00	-2.23	30274.280	.5	34282.770	.5
2494.2255	26.00	-3.40	47960.973	4.0	51969.140	3.0
2494.4539	18.00	-.95	119212.930	3.0	123220.730	2.0
2494.5099	28.01	-4.22	116191.470	2.5	120199.180	1.5
2494.6904	21.00	-1.37	17025.360	1.5	21032.780	2.5
2494.7651	15.00	-2.80	75689.200	1.5	79696.500	1.5
2494.9831	10.01	-3.64	277325.600	1.5	281332.550	.5
2495.0204	6.00	-1.09	83820.130	1.0	87827.020	2.0
2495.2197	27.00	-3.43	41918.410	3.5	45924.980	3.5
2495.2633	29.01	-2.54	135135.600	1.0	139142.100	2.0
2495.3630	9.00	-.32	129607.070	.5	133613.410	.5
2495.3753	18.01	-1.41	206623.800	3.5	210630.120	3.5
2495.3828	14.00	-.35	56700.250	1.0	60706.558	1.0
2495.4189	18.01	-3.71	206623.800	3.5	210630.050	2.5
2495.4875	18.01	-2.92	204585.640	2.5	208591.780	1.5
2495.5373	12.00	-2.54	55891.800	1.0	59897.860	0.0
2495.5373	12.00	-2.06	55891.800	1.0	59897.860	1.0
2495.5373	12.00	-1.84	55891.800	1.0	59897.860	2.0
2495.5747	23.00	-2.91	38003.930	1.5	42009.930	2.5
2495.5747	23.01	-4.99	68945.000	3.0	72951.000	4.0
2495.6975	7.00	-1.73	103622.480	.5	107628.283	1.5
2496.3381	17.00	-3.69	95706.534	1.5	99711.309	.5
2496.7751	22.00	-2.39	33655.853	2.0	37659.927	3.0
2496.9460	8.01	-2.56	257693.700	.5	261697.500	1.5
2497.0208	28.01	-1.08	116312.340	1.5	120316.020	.5
2497.1000	3.00	-2.94	35012.000	0.0	39016.645	0.0
2497.1767	28.01	-2.37	131637.100	3.5	135640.530	4.5
2497.2828	28.01	-3.49	132729.480	2.5	136732.740	1.5
2497.3514	23.00	-2.01	38242.460	3.5	42245.610	3.5
2497.3576	28.01	-1.92	131620.450	1.5	135623.590	1.5
2497.4013	14.00	-.89	60300.860	2.0	64303.930	3.0
2497.5199	17.00	-1.90	97530.130	2.5	101533.010	2.5
2497.5449	17.00	-2.10	97530.130	2.5	101532.970	1.5
2497.9380	28.01	-3.98	114874.880	2.5	118877.090	1.5
2497.9442	13.01	-.75	143280.600	4.0	147282.800	3.0
2498.0815	6.00	-2.56	83761.260	3.0	87763.240	3.0
2498.1071	7.00	-2.65	111853.061	1.5	115855.000	.5
2498.1071	7.00	-3.95	111853.061	1.5	115855.000	1.5
2498.1689	6.00	-.05	83761.260	3.0	87763.100	4.0
2498.2751	20.02	-4.76	370141.770	5.0	374143.440	4.0
2498.6934	15.00	-2.07	76425.200	2.5	80426.200	1.5
2498.7183	6.00	-2.46	83761.260	3.0	87762.220	2.0
2498.7808	6.00	-1.03	83761.260	3.0	87762.120	3.0
2499.0744	6.00	-3.26	85169.610	0.0	89170.000	1.0
2499.0807	23.00	-2.80	32988.820	3.5	36989.200	2.5
2499.2056	13.02	.36	201375.560	1.5	205375.740	.5
2499.2681	20.00	-3.10	44762.620	2.0	48762.700	2.0
2499.2681	20.00	-2.19	44762.620	2.0	48762.700	1.0
2499.2681	20.00	-4.47	44762.620	2.0	48762.700	3.0
2499.4049	20.00	-2.19	44762.839	3.0	48762.700	2.0
2499.4049	20.00	-2.93	44762.839	3.0	48762.700	3.0
2499.5180	27.00	-2.82	44201.920	2.5	48201.600	3.5
2499.5305	6.00	-1.94	83838.080	2.0	87837.740	1.0
2499.5305	6.00	-1.61	83838.080	2.0	87837.740	2.0
2499.5618	20.02	-2.82	336749.110	1.0	340748.720	2.0
2499.5793	20.00	-1.86	44763.118	4.0	48762.700	3.0
2499.7993	28.01	-4.36	114874.880	2.5	118874.110	3.5
2499.8618	22.00	-4.39	35527.760	1.0	39526.890	2.0
2500.0931	28.01	-4.57	116167.760	1.5	120166.520	1.5
2500.2869	18.01	.02	206631.670	2.5	210630.120	3.5
2500.3682	26.02	-4.43	114351.920	3.0	118350.240	4.0
2500.5871	10.01	-2.73	303071.840	2.5	307069.810	1.5
2500.6678	14.00	-2.35	54313.818	1.0	58311.659	0.0
2500.7579	18.00	-3.72	121068.804	1.0	125066.501	2.0
2500.7998	28.01	-3.06	131620.450	1.5	135618.080	2.5
2500.8561	20.02	-3.56	370141.770	5.0	374139.310	5.0
2501.0188	28.01	-2.24	130661.320	5.5	134658.600	4.5
2501.3354	26.00	-4.70	47106.463	4.0	51103.237	5.0
2501.3817	15.00	-2.79	75699.800	.5	79696.500	1.5
2501.4474	7.00	-1.66	111060.905	.5	115057.500	1.5
2501.5007	14.00	-2.86	60300.860	2.0	64297.370	3.0
2501.5551	17.00	-1.11	91538.500	1.5	95534.923	.5
2501.5752	7.00	-4.12	111905.609	2.5	115902.000	2.5
2501.5752	7.00	-2.15	111905.609	2.5	115902.000	3.5
2501.5758	9.02	-.78	440582.120	4.5	444578.510	4.5
2501.6947	30.02	-2.19	258239.600	4.0	262235.800	3.0
2501.7372	14.00	-1.60	57541.918	1.0	61538.050	0.0
2501.8982	14.00	-3.46	50189.389	2.0	54185.264	1.0
2502.3396	23.00	-3.47	38003.930	1.5	41999.100	1.5
2502.3647	6.00	-2.53	85169.610	0.0	89164.740	1.0
2502.3647	18.01	.06	200138.850	3.5	204133.980	2.5
2502.6779	25.00	-2.81	57485.970	2.5	61480.600	3.5
2502.7719	9.00	.54	129937.330	1.5	133931.810	2.5
2502.8433	17.00	-1.71	90487.870	3.5	94482.236	2.5
2502.9223	21.00	-4.12	33154.010	2.5	37148.250	1.5
2502.9662	17.00	-1.13	97530.130	2.5	101524.300	2.5
2503.0414	17.00	-2.37	97530.130	2.5	101524.180	3.5
2503.3673	28.01	-3.45	131637.100	3.5	135630.630	2.5
2503.6494	18.01	.03	202155.860	2.5	206148.940	3.5
2503.6920	14.00	-2.72	56503.346	2.0	60496.358	2.0
2503.7435	6.00	-3.49	84103.100	2.0	88096.030	2.0
2503.7610	12.00	-2.07	56308.381	2.0	60301.283	2.0
2503.7610	12.00	-1.98	56308.381	2.0	60301.283	3.0
2503.7610	12.00	-1.08	56308.381	2.0	60301.283	3.0
2503.7623	18.00	-1.63	119212.930	3.0	123205.830	3.0
2504.1385	28.01	-2.71	131637.100	3.5	135629.400	3.5
2504.2019	11.00	-2.89	34548.731	2.5	38540.930	1.5
2504.2044	7.00	-3.96	112319.805	1.5	116312.000	2.5
2504.2200	9.00	-.84	126067.230	.5	130059.400	.5
2504.2238	11.00	-3.85	34548.766	1.5	38540.930	1.5
2504.2577	10.01	-2.07	276276.850	1.5	280268.960	2.5
2504.3393	28.01	-3.32	114836.630	3.5	118828.610	2.5
2504.3455	28.01	-3.67	115108.090	2.5	119100.060	1.5
2504.5413	26.00	-3.53	46888.494	2.0	50880.152	1.0
2504.5588	17.00	-1.30	97530.130	2.5	101521.760	3.5
2504.6944	11.00	-3.15	34548.766	1.5	38540.180	.5
2504.7057	17.00	-2.68	92602.700	.5	96594.096	.5
2504.7597	28.01	-2.96	131637.100	3.5	135628.410	4.5
2504.9542	15.00	-.35	72884.400	2.5	76875.400	1.5
2505.1425	15.00	-1.98	76192.300	1.5	80183.000	2.5
2505.3145	28.00	-1.15	45281.152	3.0	49271.578	3.0
2505.8069	18.00	-4.49	121794.158	0.0	125783.800	1.0
2506.2479	6.00	-1.08	83838.080	2.0	87827.020	2.0
2506.2485	7.00	-3.04	111853.061	1.5	115842.000	.5
2506.2485	7.00	-3.55	111853.061	1.5	115842.000	1.5
2506.2667	6.00	-2.70	84103.100	2.0	88092.010	1.0
2506.2667	6.00	-2.07	83848.830	3.0	87837.740	2.0
2506.2981	6.00	-1.35	83838.080	2.0	87826.940	3.0
2506.5935	23.00	-2.71	37940.080	.5	41928.470	.5
2506.7757	26.00	-3.74	54013.780	5.0	58001.880	6.0
2506.8197	22.00	-4.17	35652.950	3.0	39640.980	3.0
2506.8826	9.02	-2.41	440069.510	1.5	444057.440	1.5
2507.0360	22.00	-6.58	12118.394	4.0	16106.080	4.0
2507.0499	14.00	-2.79	49399.670	1.0	53387.334	1.0
2507.3089	12.00	-.95	57017.078	0.0	61004.330	1.0
2507.3541	28.01	-4.45	132912.150	2.5	136899.330	1.5
2507.4359	28.01	-3.97	112906.930	1.5	116893.980	2.5
2507.5239	9.02	-3.16	440069.510	1.5	444056.420	.5
2507.6246	22.00	.33	41906.510	2.0	45893.260	3.0
2507.7152	12.00	-1.07	57017.724	1.0	61004.330	1.0
2507.7152	12.00	-.77	57017.724	1.0	61004.330	2.0
2507.8020	14.00	-1.43	59110.892	2.0	63097.360	1.0
2507.8102	10.00	-1.49	165828.175	2.0	169814.630	2.0
2507.8887	17.00	-4.84	97739.040	.5	101725.370	1.5
2508.0650	17.00	-4.39	97739.320	1.5	101725.370	1.5
2508.0964	15.00	-1.39	75353.400	1.5	79339.400	1.5
2508.1342	28.01	-3.75	95573.390	3.5	99559.330	2.5
2508.3733	18.01	-2.38	206623.800	3.5	210609.360	3.5
2508.4111	28.01	-2.93	131637.100	3.5	135622.600	3.5
2508.4300	18.01	.14	206623.800	3.5	210609.270	4.5
2508.5338	12.00	-2.25	57019.025	2.0	61004.330	1.0
2508.5338	12.00	-1.25	57019.025	2.0	61004.330	2.0
2508.5338	12.00	-.33	57019.025	2.0	61004.330	3.0
2508.5370	16.01	-1.68	127368.000	2.0	131353.300	2.0
2508.5621	25.00	-3.70	57485.970	2.5	61471.230	2.5
2508.6030	7.00	-4.91	112319.805	1.5	116305.000	1.5
2508.8454	23.00	-4.45	34019.120	1.5	38003.930	1.5
2508.9971	18.00	-3.09	121165.431	3.0	125150.000	3.0
2509.1099	23.00	-4.86	37614.970	3.5	41599.360	4.5
2509.5319	26.00	-.75	50628.000	3.0	54611.720	2.0
2509.5565	18.00	-2.54	118651.447	1.0	122635.128	2.0
2509.6642	23.00	-4.06	39935.070	1.5	43918.580	2.5
2509.7083	28.00	-2.63	50789.500	4.0	54772.940	3.0
2509.7146	24.00	-3.25	50662.770	1.0	54646.200	0.0
2509.7391	7.00	-3.82	111905.609	2.5	115889.000	1.5
2509.8582	14.00	-4.12	60381.278	1.0	64364.480	2.0
2509.9301	26.00	-4.33	46720.824	4.0	50703.912	5.0
2509.9855	13.01	.49	139286.800	2.0	143269.800	3.0
2510.0234	17.00	-2.62	90749.360	2.5	94732.300	3.5
2510.2691	6.00	-2.34	85188.950	1.0	89171.500	0.0
2510.3007	15.00	-2.89	76318.000	4.5	80300.500	3.5
2510.3095	26.00	-3.74	43022.969	4.0	47005.455	5.0
2510.5150	9.00	-4.27	129937.330	1.5	133919.490	1.5
2510.6581	14.00	-1.68	59636.667	1.0	63618.600	0.0
2510.7294	6.00	-.72	83838.080	2.0	87819.900	3.0
2510.7861	22.00	-4.09	37976.780	2.0	41958.510	2.0
2510.8479	7.00	-2.88	111501.368	1.5	115483.000	.5
2510.8479	7.00	-2.18	111501.368	1.5	115483.000	1.5
2510.8479	7.00	-2.05	111501.368	1.5	115483.000	2.5
2510.9999	7.00	-3.67	111905.609	2.5	115887.000	1.5
2510.9999	7.00	-3.22	111905.609	2.5	115887.000	2.5
2510.9999	7.00	-3.11	111905.609	2.5	115887.000	3.5
2511.1645	29.01	-.32	135759.970	2.0	139741.100	3.0
2511.2149	6.00	-2.46	85188.950	1.0	89170.000	1.0
2511.2591	28.01	-4.14	131637.100	3.5	135618.080	2.5
2511.4358	15.00	-2.09	76192.300	1.5	80173.000	.5
2511.5171	26.00	-4.13	44551.325	3.0	48531.896	3.0
2511.5954	18.00	-2.70	118459.662	1.0	122440.109	2.0
2511.6566	26.00	-4.44	49850.610	3.0	53830.960	3.0
2511.6913	14.00	-1.14	57583.657	4.0	61563.952	4.0
2511.8396	28.01	-2.76	115120.000	2.5	119100.060	1.5
2511.8901	22.00	-4.60	44079.840	2.0	48059.820	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2511.9532	27.00	-3.83	50925.110	1.5	54904.990	2.5
2512.0056	22.00	-1.37	33680.130	3.0	37659.927	3.0
2512.0416	6.00	-2.81	85169.610	0.0	89149.350	1.0
2512.1167	14.00	-3.65	57468.239	2.0	61447.860	2.0
2512.5094	18.00	-.14	113020.390	3.0	116999.389	2.0
2512.6224	14.00	-2.26	57583.657	4.0	61562.477	3.0
2512.6937	10.00	-1.74	166606.333	0.0	170585.040	1.0
2512.7411	7.00	-2.62	111501.368	1.5	115480.000	.5
2512.7411	7.00	-3.00	111501.368	1.5	115480.000	1.5
2512.7929	28.01	-2.54	131620.450	1.5	135599.000	.5
2512.9230	26.00	-4.10	46901.808	1.0	50880.152	1.0
2512.9635	23.00	-3.28	34128.040	3.5	38106.320	2.5
2512.9887	28.01	-4.75	132982.510	1.5	136960.750	2.5
2513.0203	6.00	-2.10	83848.830	3.0	87827.020	2.0
2513.0708	6.00	-.80	83848.830	3.0	87826.940	3.0
2513.2098	23.02	-4.00	156344.000	1.5	160321.890	2.5
2513.3287	18.00	-1.83	117183.654	2.0	121161.356	1.0
2513.3363	18.01	-3.84	206631.670	2.5	210609.360	3.5
2513.6237	28.00	-4.39	47328.850	2.0	51306.085	3.0
2513.8039	22.01	-3.42	59467.810	3.5	63444.760	3.5
2513.8475	14.00	-3.13	57328.789	1.0	61305.670	1.0
2514.4298	28.01	-3.61	117074.700	3.5	121050.660	2.5
2514.4551	6.00	-4.57	84116.090	1.0	88092.010	1.0
2514.5373	6.00	-3.11	85188.950	1.0	89164.740	1.0
2514.7220	26.00	-4.51	48238.832	2.0	52214.330	1.0
2514.8138	17.00	-3.04	95706.534	1.5	99681.887	1.5
2515.0054	28.01	-1.83	116191.470	2.5	120166.520	1.5
2515.3724	27.00	-2.86	47225.110	3.5	51199.580	3.5
2515.6763	25.00	-2.43	59257.440	4.5	63231.430	4.5
2515.7332	30.02	-.55	257962.500	2.0	261936.400	1.0
2515.7396	23.00	-4.33	34030.040	1.5	38003.930	1.5
2515.9612	28.01	-4.25	97273.830	2.5	101247.370	2.5
2516.0751	23.00	-2.80	33966.720	.5	37940.080	.5
2516.1448	6.00	-3.31	85188.950	1.0	89162.200	2.0
2516.1904	14.00	-.62	56733.380	0.0	60706.558	1.0
2516.2652	9.00	-1.48	129937.330	1.5	133910.390	.5
2516.9005	10.00	-1.44	166606.333	0.0	170578.390	1.0
2516.9113	28.01	-4.42	130236.260	2.5	134208.300	2.5
2517.0342	28.00	-1.08	50789.500	4.0	54761.346	4.0
2517.1832	26.00	-4.85	46727.055	2.0	50698.666	2.0
2517.2662	28.01	-4.63	129474.270	3.5	133445.750	4.5
2517.3106	20.02	-4.86	370172.430	4.0	374143.840	3.0
2517.3423	28.01	-4.92	132927.970	1.5	136899.330	1.5
2517.4627	6.00	-.21	83848.830	3.0	87820.000	4.0
2517.4988	17.00	-3.80	91173.510	1.5	95144.623	2.5
2517.5261	6.00	-1.68	83848.830	3.0	87819.900	3.0
2517.5755	18.00	-3.25	118469.117	2.0	122440.109	2.0
2517.7036	6.00	-4.31	84121.220	0.0	88092.010	1.0
2517.8095	17.00	-2.01	91564.300	.5	95534.923	.5
2517.8355	14.00	-2.41	60381.278	1.0	64351.860	1.0
2517.8875	27.00	-1.95	45876.580	2.5	49847.080	2.5
2517.9953	9.00	-.29	129607.070	.5	133577.400	1.5
2518.0467	17.00	-3.11	91343.500	2.5	95313.749	1.5
2518.2046	13.01	-1.69	142607.000	2.0	146577.000	1.0
2518.2300	9.02	-1.76	440582.120	4.5	444552.080	3.5
2518.2934	28.01	-2.82	115827.120	3.5	119796.980	2.5
2518.2985	14.00	-2.07	57541.918	1.0	61511.770	1.0
2518.6233	26.00	-4.50	54004.820	3.0	57974.160	2.0
2518.6804	27.00	-2.62	43555.220	3.5	47524.470	4.5
2518.6919	7.00	-.88	106477.800	.5	110447.032	1.5
2518.8296	10.00	-.90	165828.175	2.0	169797.190	3.0
2519.0320	14.00	-2.24	60705.464	3.0	64674.160	4.0
2519.3024	29.01	-3.67	129759.600	1.0	133727.870	2.0
2519.6263	28.01	-2.61	131655.830	.5	135623.590	1.5
2519.7000	3.00	-.11	36470.000	0.0	40438.726	0.0
2519.8054	26.00	-2.71	48289.852	1.0	52257.330	0.0
2519.9185	17.01	-2.38	147125.700	3.0	151093.000	3.0
2520.1852	20.02	-4.49	370172.430	4.0	374139.310	5.0
2520.3377	25.00	-3.19	59116.600	2.5	63083.240	1.5
2520.4457	20.02	-3.65	370172.430	4.0	374138.900	4.0
2520.4584	27.00	-1.87	46746.000	2.5	50712.450	2.5
2520.5156	6.00	-2.41	85203.640	2.0	89170.000	1.0
2520.6554	28.01	-1.95	100332.090	4.5	104298.230	4.5
2520.7514	7.00	-1.43	103622.480	.5	107588.469	.5
2521.1894	17.01	-2.81	147053.700	2.0	151019.000	2.0
2521.2657	18.00	-4.23	122329.720	3.0	126294.900	4.0
2521.3846	7.00	-4.60	112294.007	.5	116259.000	.5
2521.5900	20.00	-2.65	42343.587	3.0	46308.257	2.0
2521.5900	6.00	-3.68	83798.570	4.0	87763.240	3.0
2521.6791	6.00	-2.60	83798.570	4.0	87763.100	4.0
2521.7045	18.01	-.57	202155.860	2.5	206120.350	2.5
2521.8871	22.00	-2.92	37659.927	3.0	41624.130	4.0
2521.9653	28.01	-4.32	131655.830	.5	135619.910	1.5
2521.9781	23.00	-2.97	33976.020	1.5	37940.080	.5
2522.3026	6.00	-3.91	83798.570	4.0	87762.120	3.0
2522.3153	24.00	-3.37	44050.870	4.0	48014.400	4.0
2522.3980	13.01	-.75	146185.000	2.0	150148.400	2.0
2522.3980	13.01	-.01	146185.000	1.0	150148.400	2.0
2522.3980	13.01	-.21	146185.000	2.0	150148.400	3.0
2522.3980	13.01	-2.29	146185.000	3.0	150148.400	2.0
2522.3980	13.01	-1.11	146185.000	3.0	150148.400	3.0
2522.3980	13.01	.32	146185.000	3.0	150148.400	4.0
2522.4044	19.00	-2.16	30185.240	2.5	34148.630	1.5
2522.6526	15.00	-1.01	76659.400	2.5	80622.400	2.5
2522.7226	19.00	-3.12	30185.740	1.5	34148.630	1.5
2522.9983	26.00	-3.87	47017.170	3.0	50979.627	4.0
2523.0091	25.00	-4.38	41031.480	4.5	44993.920	3.5
2523.0282	19.00	-2.42	30185.740	1.5	34148.150	.5
2523.1015	14.00	-1.27	60962.105	2.0	64924.400	3.0
2523.2639	18.01	-.17	214978.860	5.5	218940.900	4.5
2523.2639	18.01	-1.98	214978.860	5.5	218940.900	5.5
2523.3403	18.01	-1.99	214978.980	4.5	218940.900	4.5
2523.3403	18.01	-3.72	214978.980	4.5	218940.900	5.5
2523.4422	10.01	-2.39	276511.820	.5	280473.580	1.5
2523.8289	7.00	-1.38	103667.130	1.5	107628.283	1.5
2523.8627	6.00	-2.62	85203.640	2.0	89164.740	1.0
2524.0602	10.01	.67	303279.910	2.5	307240.700	3.5
2524.3088	6.00	-2.78	85188.950	1.0	89149.350	1.0
2524.5242	20.00	-3.45	42343.587	3.0	46303.649	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2524.7167	28.01	-2.74	131670.870	2.5	135630.630	2.5
2524.7996	28.01	-4.74	116312.340	1.5	120271.970	2.5
2524.8844	26.00	-4.88	48221.323	1.0	52180.820	1.0
2525.0241	22.00	-4.34	38764.832	3.0	42724.110	2.0
2525.1376	30.02	-1.07	257962.500	2.0	261921.600	2.0
2525.1676	22.00	-2.42	33700.874	4.0	37659.927	3.0
2525.1873	18.00	-1.82	116660.054	1.0	120619.076	2.0
2525.2014	22.00	.08	41854.010	1.0	45813.010	2.0
2525.3162	20.00	-.13	36731.615	1.0	40690.435	0.0
2525.4820	6.00	-1.60	85203.640	2.0	89162.200	2.0
2525.4948	28.01	-3.76	131686.560	4.5	135645.100	5.5
2525.5012	28.01	-2.74	131670.870	2.5	135629.400	3.5
2525.5012	18.01	-2.86	199959.620	2.5	203918.150	1.5
2525.5548	14.00	-3.06	60705.464	3.0	64663.910	4.0
2525.6397	18.00	-3.02	118651.447	1.0	122609.760	1.0
2525.6990	6.00	-2.50	78293.490	1.0	82251.710	0.0
2525.7246	6.00	-3.62	84103.100	2.0	88061.280	1.0
2525.7309	27.00	-3.72	41918.410	3.5	45876.580	2.5
2525.7756	30.02	-2.10	258277.700	3.0	262235.800	3.0
2525.7884	18.00	-2.55	121191.920	2.0	125150.000	3.0
2525.9530	20.00	-2.50	44804.878	3.0	48762.700	2.0
2526.0755	23.00	-4.46	20812.990	1.5	24770.620	.5
2526.1905	14.00	-3.56	60704.530	3.0	64661.980	3.0
2526.4586	22.00	-4.62	44162.440	4.0	48119.470	5.0
2526.5096	26.00	-.61	50456.790	3.0	54413.740	3.0
2526.6757	25.00	-4.65	58338.670	6.5	62295.360	5.5
2526.9873	22.00	-3.98	37824.748	4.0	41780.950	4.0
2527.0557	7.00	-1.86	111060.905	.5	115017.000	.5
2527.0557	7.00	-1.48	111060.905	.5	115017.000	1.5
2527.0589	27.00	-4.41	41968.890	2.5	45924.980	3.5
2527.5176	17.00	-.26	95313.749	1.5	99269.121	2.5
2527.5764	9.00	-3.20	130016.100	2.5	133971.380	1.5
2527.7611	14.00	-1.23	57468.239	2.0	61423.230	3.0
2527.7937	23.00	-3.47	37025.600	3.5	40980.540	4.5
2528.2795	14.00	-1.07	59032.140	2.0	62986.320	2.0
2528.4138	28.01	-2.31	131686.560	4.5	135640.530	4.5
2528.4336	17.00	-3.04	95400.731	2.5	99354.670	1.5
2528.4842	25.00	-3.39	59470.140	3.5	63424.000	3.5
2528.5097	14.00	-1.53	59032.140	2.0	62985.960	1.0
2528.5673	28.01	-3.75	114874.880	2.5	118828.610	2.5
2528.5801	6.00	-1.99	85188.950	1.0	89142.660	2.0
2528.5922	26.00	-3.73	46744.975	3.0	50698.666	2.0
2528.5929	27.00	-4.26	42269.320	4.5	46223.010	4.5
2528.8871	28.01	-3.35	130661.320	5.5	134614.550	5.5
2528.9127	28.01	-4.74	129782.070	3.5	133735.260	2.5
2529.0918	28.01	-3.70	129782.070	3.5	133734.980	3.5
2529.2134	28.01	-3.48	131670.870	2.5	135623.590	1.5
2529.2134	14.01	-.06	113962.340	.5	117915.060	.5
2529.3798	22.00	-4.68	44233.650	3.0	48186.110	4.0
2529.6358	6.00	-2.62	85203.640	2.0	89155.700	3.0
2529.7222	14.00	-2.55	59273.575	1.0	63225.500	2.0
2529.7382	12.02	-3.53	582839.700	3.0	586791.600	2.0
2529.8170	17.00	-.36	91660.580	2.5	95612.357	1.5
2529.8470	28.01	-3.03	131670.870	2.5	135622.600	3.5
2529.8470	28.01	-3.04	95017.710	4.5	98969.440	5.5
2530.0583	13.01	-.95	144780.200	2.0	148731.600	3.0
2530.1864	15.00	-3.36	77843.900	2.5	81795.100	3.5
2530.8077	29.01	-.62	135759.970	2.0	139710.200	2.0
2531.0556	18.00	-2.12	118651.447	1.0	122601.290	1.0
2531.1152	22.00	-4.49	35577.140	2.0	39526.890	2.0
2531.1921	9.00	-1.39	130141.650	1.5	134091.280	1.5
2531.2242	9.00	-4.01	130016.100	2.5	133965.680	2.5
2531.3454	7.00	-3.13	111905.609	2.5	115855.000	1.5
2531.3844	27.00	-3.30	42796.670	1.5	46746.000	2.5
2531.5703	28.01	-2.87	131670.870	2.5	135619.910	1.5
2531.5703	27.00	-4.03	48753.720	1.5	52702.760	1.5
2532.3783	17.00	-.92	84132.262	2.5	88080.042	2.5
2532.3950	8.00	-1.52	103625.766	1.0	107573.520	0.0
2532.3976	8.00	-1.16	103625.766	1.0	107573.516	1.0
2532.4033	8.00	-1.27	103625.766	1.0	107573.507	2.0
2532.5001	18.01	-1.91	202155.860	2.5	206103.450	1.5
2532.6266	8.00	-1.64	103626.123	2.0	107573.516	1.0
2532.6323	8.00	-1.05	103626.123	2.0	107573.507	2.0
2532.6394	8.00	-.85	103626.123	2.0	107573.496	3.0
2532.6541	22.00	-2.79	38159.710	3.0	42107.060	4.0
2532.7440	28.01	-2.70	131670.870	2.5	135618.080	2.5
2532.8723	9.00	-.90	129659.500	3.5	133606.510	3.5
2532.9532	8.00	-1.99	103626.623	3.0	107573.507	2.0
2532.9602	8.00	-1.15	103626.623	3.0	107573.496	3.0
2532.9654	8.00	-.56	103626.623	3.0	107573.488	4.0
2533.0135	23.00	-3.53	40119.260	2.5	44066.050	3.5
2533.4500	9.00	.80	129659.500	3.5	133605.610	4.5
2533.4885	28.01	-.45	130661.320	5.5	134607.370	4.5
2533.5252	7.00	-4.40	112294.007	.5	116240.000	1.5
2533.6169	18.01	-3.87	188766.150	2.5	192712.000	1.5
2533.7068	6.00	-2.93	85203.640	2.0	89149.350	1.0
2533.7261	24.00	-2.81	44068.720	3.0	48014.400	4.0
2533.9060	12.02	-3.17	582839.700	3.0	586785.100	3.0
2533.9810	18.00	-2.12	117151.387	1.0	121096.670	0.0
2534.0344	27.00	-3.40	49025.420	1.5	52970.620	2.5
2534.0408	6.00	-4.74	84116.090	1.0	88061.280	1.0
2534.1436	27.00	-3.70	47225.110	3.5	51170.140	4.5
2534.3556	27.00	-3.85	48217.320	3.5	52162.020	3.5
2534.4236	17.00	-2.46	96945.536	2.5	100890.130	2.5
2534.4603	26.00	-4.39	48122.913	3.0	52067.450	2.0
2534.5547	26.00	-1.01	50803.350	2.0	54747.740	1.0
2534.5869	28.01	-3.85	118892.990	5.5	122837.330	4.5
2534.6004	17.00	-1.28	96945.536	2.5	100889.855	3.5
2534.7411	18.01	-2.88	214996.800	3.5	218940.900	4.5
2534.9982	15.00	-.64	64239.500	.5	68183.200	1.5
2535.1460	18.01	-4.53	214997.430	4.5	218940.900	4.5
2535.1460	18.01	-2.79	214997.430	4.5	218940.900	5.5
2535.1718	27.00	-4.43	48828.870	2.5	52772.300	2.5
2535.3196	25.00	-3.67	59480.800	2.5	63424.000	3.5
2535.3389	28.01	-2.33	131655.830	.5	135599.000	.5
2535.3840	9.00	-.52	130141.650	1.5	134084.750	2.5
2535.4804	14.00	-1.61	60704.530	3.0	64647.480	3.0
2535.4932	18.00	-4.74	121096.670	0.0	125039.600	1.0
2535.5511	28.01	-3.26	131686.560	4.5	135629.400	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2535.7633	28.01	-4.02	129503.240	4.5	133445.750	4.5
2535.9306	14.00	-2.89	60704.530	3.0	64646.780	2.0
2535.9563	9.00	-.92	130149.070	.5	134091.280	1.5
2536.0335	6.00	-.46	83820.130	1.0	87762.220	2.0
2536.1879	28.01	-3.88	131686.560	4.5	135628.410	4.5
2536.2008	28.01	-4.22	129988.050	2.5	133929.880	3.5
2536.2716	22.00	-.27	41822.990	0.0	45764.710	1.0
2536.4421	14.00	-1.24	53387.334	1.0	57328.789	1.0
2536.4698	14.00	-3.88	60381.278	1.0	64322.690	0.0
2536.5032	7.00	-4.62	110349.140	3.5	114290.500	2.5
2536.6062	25.00	-3.36	59290.230	3.5	63231.430	4.5
2536.7607	25.00	-4.97	58485.520	4.5	62426.480	3.5
2536.7736	27.00	-4.94	42434.230	2.5	46375.170	1.5
2536.8058	18.00	-4.92	116660.054	1.0	120600.944	2.0
2536.9396	10.00	-1.05	166656.508	1.0	170597.190	2.0
2537.0014	12.00	-1.09	57017.724	1.0	60958.310	2.0
2537.1083	23.00	-4.69	20830.200	.5	24770.620	.5
2537.2114	6.00	-1.51	85203.640	2.0	89143.900	3.0
2537.2358	14.00	-2.24	60706.558	1.0	64646.780	2.0
2537.5076	12.02	-1.93	582839.700	3.0	586779.500	4.0
2537.7652	17.01	-2.11	146013.000	2.0	149952.400	1.0
2537.8393	12.00	-1.56	57019.025	2.0	60958.310	2.0
2537.8973	7.00	-4.90	112319.805	1.5	116259.000	.5
2537.8973	7.00	-4.16	112319.805	1.5	116259.000	1.5
2537.9327	27.00	-3.25	48217.320	3.5	52156.460	4.5
2538.0101	27.00	-4.59	43425.710	2.5	47364.730	1.5
2538.3194	9.00	-2.26	126282.580	1.5	130221.120	1.5
2538.3580	23.00	-4.39	34167.840	2.5	38106.320	2.5
2538.3696	22.00	-4.66	37617.868	4.0	41556.330	5.0
2538.3742	26.00	-3.58	44022.518	4.0	47960.973	4.0
2538.4612	23.00	-2.95	34065.610	2.5	38003.930	1.5
2538.4998	10.01	-4.25	302961.070	1.5	306899.330	2.5
2538.5385	12.02	-2.14	582839.700	3.0	586777.900	3.0
2538.6159	14.01	.24	113976.980	1.5	117915.060	.5
2538.7693	7.00	-2.91	111165.158	1.5	115103.000	2.5
2539.0865	22.00	-4.04	41895.150	5.0	45832.500	5.0
2539.1768	28.01	-1.72	127991.560	3.5	131928.770	4.5
2539.5057	13.01	-1.04	142360.800	0.0	146297.500	1.0
2539.7051	7.00	-2.73	111905.609	2.5	115842.000	1.5
2539.7600	17.00	-2.56	96313.330	1.5	100249.636	2.5
2539.8864	28.01	.21	130661.320	5.5	134597.430	5.5
2539.9961	27.00	-4.67	50578.730	3.5	54514.670	3.5
2540.0303	26.00	-2.75	44285.436	2.0	48221.323	1.0
2540.0878	22.00	-4.00	18145.400	2.0	22081.198	2.0
2540.4874	17.00	-.56	96930.181	.5	100865.360	1.5
2540.5319	28.01	-3.80	117763.910	1.5	121699.020	1.5
2540.6222	18.01	-1.63	186171.260	.5	190106.230	1.5
2540.6403	7.00	-2.20	111165.158	1.5	115100.100	2.5
2540.6739	24.00	-2.60	44050.870	4.0	47985.760	5.0
2540.7256	27.00	-3.75	48828.870	2.5	52763.680	3.5
2540.7966	15.00	-2.58	76659.400	2.5	80594.100	1.5
2540.7966	13.01	-2.75	142362.800	2.0	146297.500	1.0
2540.7966	13.01	-3.23	142362.800	1.0	146297.500	1.0
2540.8160	28.01	-4.84	114942.420	1.5	118877.090	1.5
2540.8870	27.00	-4.28	42811.440	3.5	46746.000	2.5
2540.9516	28.01	-3.62	114874.880	2.5	118809.340	1.5
2541.0665	12.00	-2.74	56968.218	3.0	60902.500	2.0
2541.0665	12.00	-1.41	56968.218	3.0	60902.500	3.0
2541.0665	12.00	-1.61	56968.218	3.0	60902.500	3.0
2541.0665	12.00	-.13	56968.218	3.0	60902.500	4.0
2541.0859	12.00	-1.37	56968.248	2.0	60902.500	2.0
2541.0859	12.00	-.46	56968.248	2.0	60902.500	3.0
2541.0859	12.00	-1.39	56968.248	2.0	60902.500	3.0
2541.1008	12.00	-.47	56968.271	1.0	60902.500	2.0
2541.5556	17.00	-2.49	96313.330	1.5	100246.855	1.5
2541.7074	22.00	-1.39	42311.310	3.0	46244.600	2.0
2541.8561	28.01	-4.99	129782.070	3.5	133715.130	4.5
2541.9595	14.00	-1.38	59190.460	1.0	63123.360	0.0
2542.0544	14.00	-.20	57372.297	2.0	61305.050	3.0
2542.2180	28.01	-3.66	136076.260	4.5	140008.760	3.5
2542.5504	14.00	-1.59	57372.297	2.0	61304.283	2.0
2542.9293	15.00	-4.91	72493.800	1.5	76425.200	2.5
2542.9507	17.00	-2.72	91680.990	1.5	95612.357	1.5
2543.1337	14.00	-2.77	57372.297	2.0	61303.381	3.0
2543.1635	10.00	-1.48	165912.782	1.0	169843.820	2.0
2543.3104	20.00	-1.78	37748.197	1.0	41679.008	1.0
2543.6475	26.00	-4.19	47420.215	5.0	51350.505	4.0
2543.7575	27.00	-3.45	48334.370	1.5	52264.490	1.5
2543.8935	28.01	-2.23	136076.260	4.5	140006.170	4.5
2543.9517	18.01	-2.28	196305.040	3.5	200234.860	2.5
2543.9569	14.00	-1.30	59056.508	1.0	62986.320	2.0
2544.1459	21.00	-4.58	14926.240	2.5	18855.760	1.5
2544.1900	14.00	-1.20	59056.508	1.0	62985.960	1.0
2544.2126	26.00	-3.43	48928.423	2.0	52857.840	1.0
2544.4827	13.01	-.90	146414.500	3.0	150343.500	2.0
2544.4827	13.01	-2.33	146414.500	3.0	150343.500	3.0
2544.4827	13.01	-3.76	146414.500	3.0	150343.500	4.0
2544.4827	13.01	-1.51	146414.500	4.0	150343.500	3.0
2544.4827	13.01	-.42	146414.500	4.0	150343.500	3.0
2544.4827	13.01	-2.20	146414.500	4.0	150343.500	4.0
2544.4827	13.01	-2.34	146414.500	4.0	150343.500	4.0
2544.4827	13.01	-.67	146414.500	5.0	150343.500	4.0
2544.7858	10.00	-1.44	166656.508	1.0	170585.040	1.0
2544.8000	28.01	-2.14	101740.270	3.5	105668.780	2.5
2544.8713	24.00	-4.87	50890.150	2.0	54818.550	2.0
2545.0462	11.00	-1.70	35040.380	.5	38968.510	.5
2545.6871	20.00	-1.88	37751.867	2.0	41679.008	1.0
2545.7169	7.00	-2.17	111060.905	.5	114988.000	.5
2545.7169	7.00	-2.80	111060.905	.5	114988.000	1.5
2545.8388	26.00	-3.91	48122.913	3.0	52049.820	2.0
2545.9465	26.00	-4.45	47377.909	4.0	51304.650	4.0
2545.9731	28.01	-3.14	115870.280	2.5	119796.980	2.5
2545.9938	10.00	-1.35	165912.782	1.0	169839.450	1.0
2546.0683	20.00	-.59	36547.688	0.0	40474.241	1.0
2546.4153	17.00	-2.01	96945.536	2.5	100871.554	3.5
2546.6476	11.00	-1.40	35042.850	1.5	38968.510	.5
2546.9719	6.00	-.61	83838.080	2.0	87763.240	3.0
2547.1147	7.00	-4.80	110349.060	2.5	114274.000	2.5
2547.2704	13.01	-.09	146185.000	2.0	150109.700	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2547.2704	13.01	-.99	146185.000	3.0	150109.700	3.0
2547.2705	22.00	-4.58	37690.320	5.0	41615.020	6.0
2547.3483	22.00	-3.92	37976.780	2.0	41901.360	1.0
2547.3743	23.00	-4.64	38003.930	1.5	41928.470	.5
2547.4146	26.00	-2.50	48289.852	1.0	52214.330	1.0
2547.6275	6.00	-3.78	83919.760	2.0	87843.910	1.0
2547.6340	6.00	-1.73	83838.080	2.0	87762.220	2.0
2547.6794	9.00	-1.48	129659.500	3.5	133583.570	2.5
2547.6989	6.00	-.82	83838.080	2.0	87762.120	3.0
2547.9560	26.00	-4.42	51201.330	2.0	55124.974	3.0
2548.0885	26.00	-4.30	50377.920	5.0	54301.360	4.0
2548.1132	26.00	-4.99	47831.132	2.0	51754.534	1.0
2548.4653	14.00	-1.29	59032.140	2.0	62955.000	2.0
2548.7446	26.00	-4.32	53891.540	3.0	57813.970	3.0
2548.7479	18.00	-.92	113020.390	3.0	116942.815	3.0
2548.8161	14.00	-4.71	59032.140	2.0	62954.460	3.0
2548.9591	27.00	-1.76	45924.980	3.5	49847.080	2.5
2549.0436	23.01	-3.47	44657.990	2.0	48579.960	3.0
2549.1001	17.00	-4.42	94468.857	.5	98390.740	.5
2549.1007	10.00	-1.75	166656.508	1.0	170578.390	1.0
2549.1866	28.01	.66	130661.320	5.5	134583.070	6.5
2549.3101	18.00	-3.46	121191.920	2.0	125113.480	2.0
2549.3231	21.00	-4.82	37553.340	2.5	41474.880	1.5
2549.3555	6.00	-2.28	85169.610	0.0	89091.100	1.0
2549.4206	14.00	-.58	56700.250	1.0	60621.640	0.0
2549.4537	7.00	-2.08	103667.130	1.5	107588.469	.5
2549.5246	29.01	-1.43	133727.870	2.0	137649.100	2.0
2549.5441	25.01	-3.70	82136.200	4.0	86057.400	4.0
2549.5441	15.00	-3.33	77843.300	1.5	81764.500	1.5
2549.6612	18.01	-.59	192712.000	1.5	196633.020	2.5
2549.7002	23.00	-4.86	34019.120	1.5	37940.080	.5
2549.8627	14.02	-4.20	250636.550	2.0	254557.260	3.0
2549.8725	14.00	-2.10	60962.105	2.0	64882.800	2.0
2549.9343	15.00	-3.66	77843.900	2.5	81764.500	1.5
2549.9473	28.01	-4.97	118927.020	4.5	122847.600	3.5
2549.9668	10.01	.31	303974.290	1.5	307894.840	2.5
2550.0124	14.02	-4.87	250636.550	2.0	254557.030	2.0
2550.1034	23.00	-2.03	33155.300	4.5	37075.640	4.5
2550.1977	7.00	-4.29	112319.805	1.5	116240.000	2.5
2550.3409	10.00	-1.36	165828.175	2.0	169748.150	1.0
2550.3506	28.01	-4.95	132846.530	3.5	136766.490	2.5
2550.3962	28.01	-4.48	130147.870	.5	134067.760	1.5
2550.4391	17.00	-4.81	96945.536	2.5	100865.360	1.5
2550.4807	18.00	-.25	113643.260	1.0	117563.020	0.0
2550.5497	8.00	-4.04	102865.559	3.0	106785.213	2.0
2550.5497	8.00	-2.50	102865.559	3.0	106785.213	3.0
2550.5497	8.00	-1.43	102865.559	3.0	106785.213	4.0
2550.5497	8.00	-1.88	102865.518	4.0	106785.172	3.0
2550.5497	8.00	-.71	102865.518	4.0	106785.172	4.0
2550.5497	8.00	.16	102865.518	4.0	106785.172	5.0
2550.5588	28.01	-1.53	131686.560	4.5	135606.200	5.5
2550.5764	8.00	-1.59	102865.559	3.0	106785.172	2.0
2550.5764	8.00	-.57	102865.559	3.0	106785.172	3.0
2550.5764	8.00	-.02	102865.559	3.0	106785.172	4.0
2550.5881	8.00	-2.70	102865.618	2.0	106785.213	2.0
2550.5881	8.00	-1.80	102865.618	2.0	106785.213	3.0
2550.6148	8.00	-1.59	102865.618	2.0	106785.172	1.0
2550.6148	8.00	-.59	102865.618	2.0	106785.172	2.0
2550.6148	8.00	-.21	102865.618	2.0	106785.172	3.0
2550.6200	8.00	-2.42	102865.667	1.0	106785.213	2.0
2550.6467	8.00	-.74	102865.667	1.0	106785.172	1.0
2550.6467	8.00	-.44	102865.667	1.0	106785.172	2.0
2550.6551	20.00	-.12	36554.749	1.0	40474.241	1.0
2550.6623	8.00	-.74	102865.691	0.0	106785.172	1.0
2551.0229	26.00	-4.91	46889.126	4.0	50808.053	4.0
2551.0951	22.00	-3.00	37538.804	2.0	41457.620	3.0
2551.3464	21.00	-3.03	33798.680	2.5	37717.110	3.5
2551.3595	26.00	-4.42	49850.610	3.0	53769.020	4.0
2551.4506	24.00	-2.85	51286.520	2.0	55204.790	3.0
2551.4767	10.01	-4.71	318157.150	3.5	322075.380	4.5
2551.8460	7.00	-.52	106477.800	.5	110395.463	1.5
2551.8870	15.00	-.87	75484.400	2.5	79402.000	2.5
2551.9521	29.01	-3.05	134675.600	2.0	138593.100	1.0
2551.9742	14.00	-4.81	58801.524	1.0	62718.990	0.0
2552.0173	23.00	-4.94	40001.180	3.5	43918.580	2.5
2552.1345	28.01	-2.77	112906.930	1.5	116824.150	2.5
2552.2772	28.00	-1.61	42605.964	3.0	46522.965	2.0
2552.3952	28.01	-3.57	132982.510	1.5	136899.330	1.5
2552.4362	10.00	.01	158601.115	2.0	162517.872	1.0
2552.5366	17.00	-2.13	91680.990	1.5	95597.593	.5
2552.5848	17.00	-3.06	97259.811	1.5	101176.340	2.5
2552.6298	26.02	-2.90	218860.430	2.0	222776.890	1.0
2552.8514	19.00	-2.42	30185.240	2.5	34101.360	2.5
2552.8514	19.00	-1.12	30185.240	2.5	34101.360	3.5
2553.0600	6.00	-2.38	85169.610	0.0	89085.410	1.0
2553.1187	9.00	-3.42	130016.100	2.5	133931.810	2.5
2553.1774	19.00	-1.27	30185.740	1.5	34101.360	2.5
2553.5165	22.00	-.61	42092.520	4.0	46007.620	4.0
2553.6143	28.01	-4.81	129988.050	2.5	133903.000	1.5
2553.8818	24.00	-3.16	50890.150	2.0	54804.690	1.0
2553.9666	6.00	-2.22	83848.830	3.0	87763.240	3.0
2553.9797	10.01	-4.37	318160.990	3.5	322075.380	4.5
2554.0319	17.00	-3.72	90749.360	2.5	94663.670	1.5
2554.0384	20.00	-3.17	44762.620	2.0	48676.920	2.0
2554.0384	20.00	-2.26	44762.620	2.0	48676.920	1.0
2554.0384	20.00	-4.54	44762.620	2.0	48676.920	3.0
2554.0580	6.00	-.58	83848.830	3.0	87763.100	4.0
2554.0691	10.00	-1.13	167559.060	3.0	171473.313	2.0
2554.1812	20.00	-2.26	44762.839	3.0	48676.920	2.0
2554.1812	20.00	-3.00	44762.839	3.0	48676.920	3.0
2554.2146	27.00	-3.91	48546.070	1.5	52460.100	2.5
2554.2779	7.00	-3.22	111143.567	.5	115057.500	1.5
2554.3634	20.00	-1.93	44763.118	4.0	48676.920	3.0
2554.3712	26.02	-3.69	218860.430	2.0	222774.220	2.0
2554.4300	13.01	-.86	142362.800	2.0	146276.500	3.0
2554.4300	13.01	-1.77	142362.800	3.0	146276.500	3.0
2554.4561	20.01	-.41	84933.650	1.5	88847.310	2.5
2554.5017	21.00	-2.31	32659.210	1.5	36572.800	2.5
2554.5317	18.00	-3.92	121161.356	1.0	125074.900	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2554.6323	6.00	-4.54	83848.830	3.0	87762.220	2.0
2554.6976	6.00	-2.41	83848.830	3.0	87762.120	3.0
2554.8477	25.01	-4.42	82144.340	3.0	86057.400	4.0
2554.9522	15.00	-4.47	76709.500	3.5	80622.400	2.5
2554.9587	6.00	-3.72	83919.650	3.0	87832.540	2.0
2555.0305	6.00	-4.60	83919.760	2.0	87832.540	2.0
2555.2004	10.01	-4.02	318156.060	4.5	322068.580	5.5
2555.2597	14.00	-1.76	45276.188	1.0	49188.617	2.0
2555.4028	14.00	-3.80	60704.530	3.0	64616.740	2.0
2555.5531	9.00	-1.53	130059.400	.5	133971.380	1.5
2555.9124	6.00	-.29	78340.280	1.0	82251.710	0.0
2556.0954	26.02	-4.34	219415.610	5.0	223326.760	4.0
2556.1823	14.00	-3.18	60487.103	1.0	64398.120	2.0
2556.2588	20.01	-.26	84936.410	2.5	88847.310	3.5
2556.2588	20.01	-1.56	84936.410	2.5	88847.310	2.5
2556.2869	26.00	-4.14	47693.289	3.0	51604.146	3.0
2556.3895	22.00	-.39	41854.010	1.0	45764.710	1.0
2556.4876	28.01	-4.89	116312.340	1.5	120222.890	1.5
2556.5529	29.01	-3.79	137073.750	2.0	140984.200	1.0
2556.5791	6.00	-4.83	83919.760	2.0	87830.170	1.0
2556.6170	28.00	-1.85	50789.500	4.0	54699.852	3.0
2556.6445	28.01	-4.22	118927.020	4.5	122837.330	4.5
2556.6622	20.00	-4.21	43933.477	1.0	47843.760	0.0
2556.6902	28.01	-1.61	100592.980	3.5	104503.220	2.5
2556.7281	14.00	-3.55	60706.558	1.0	64616.740	2.0
2556.7295	28.01	-3.70	130331.780	1.5	134241.960	.5
2556.7817	15.00	-2.11	70391.600	2.5	74301.700	2.5
2556.8210	23.00	-4.34	34030.040	1.5	37940.080	.5
2556.8864	7.00	-4.29	110349.060	2.5	114259.000	1.5
2557.0388	26.00	-4.28	48304.623	2.0	52214.330	1.0
2557.5098	28.00	-2.17	45418.858	2.0	49327.845	2.0
2557.6485	17.00	-.64	96594.096	.5	100502.871	1.5
2557.6648	9.00	-.22	126581.180	.5	130489.930	.5
2557.7976	14.00	-1.28	53387.334	1.0	57295.881	0.0
2558.0962	10.00	-.73	166967.669	0.0	170875.760	1.0
2558.1589	7.00	-.89	106477.800	.5	110385.795	.5
2558.3586	27.00	-4.32	41968.890	2.5	45876.580	2.5
2558.5289	22.00	-.36	41985.830	3.0	45893.260	3.0
2558.6153	26.00	-4.11	47929.981	4.0	51837.279	3.0
2558.8301	9.00	-1.46	130016.100	2.5	133923.070	3.5
2558.8760	14.00	-1.48	59190.460	1.0	63097.360	1.0
2559.0004	26.00	-4.07	48350.620	1.0	52257.330	0.0
2559.1380	22.00	-.30	41906.510	2.0	45813.010	2.0
2559.2428	6.00	-4.28	83926.200	3.0	87832.540	2.0
2559.2768	14.00	-1.37	59191.072	2.0	63097.360	1.0
2559.3148	10.00	-1.69	168355.510	1.0	172261.740	1.0
2559.3607	18.01	-2.07	159393.310	1.5	163299.470	2.5
2559.5036	14.00	-.86	57541.918	1.0	61447.860	2.0
2559.5900	24.00	-4.41	44068.720	3.0	47974.530	3.0
2559.5900	25.00	-3.73	57305.620	3.5	61211.430	4.5
2559.7211	26.02	-3.40	218860.430	2.0	222766.040	3.0
2559.7342	10.01	-4.97	318161.290	2.5	322066.880	2.5
2559.7539	10.01	-4.53	318161.290	2.5	322066.850	3.5
2559.7604	18.01	-2.34	196076.390	1.5	199981.940	1.5
2559.9119	10.00	-1.63	166975.341	1.0	170880.660	2.0
2560.0095	7.00	-3.40	110385.330	2.5	114290.500	2.5
2560.0095	7.00	-2.87	110385.330	3.5	114290.500	2.5
2560.0554	30.02	-2.29	260878.800	3.0	264783.900	4.0
2560.1210	18.00	-.89	120753.520	3.0	124658.520	2.0
2560.1865	23.00	-4.73	37075.640	4.5	40980.540	4.5
2560.2193	25.00	-4.55	56490.790	2.5	60395.640	1.5
2560.3111	28.01	-3.24	116261.810	.5	120166.520	1.5
2560.3420	17.00	-2.07	91069.020	.5	94973.683	.5
2560.7617	26.00	-3.01	48163.427	2.0	52067.450	2.0
2560.8489	27.00	-3.30	48217.320	3.5	52121.210	4.5
2561.0261	14.00	-1.85	59032.140	2.0	62935.760	3.0
2561.0326	23.00	-2.41	38106.320	2.5	42009.930	2.5
2561.1769	9.00	-3.30	130016.100	2.5	133919.490	1.5
2561.3607	10.00	-1.98	168358.630	1.0	172261.740	1.0
2561.6888	10.01	.31	303518.210	1.5	307420.820	2.5
2561.9908	6.00	-3.70	85188.950	1.0	89091.100	1.0
2562.1890	10.00	-1.25	165912.782	1.0	169814.630	2.0
2562.2455	14.00	-3.42	60496.358	2.0	64398.120	2.0
2562.4439	6.00	-1.22	71352.510	0.0	75253.970	1.0
2562.5063	28.00	-4.15	40361.254	3.0	44262.619	2.0
2562.6462	14.00	-3.51	59034.988	3.0	62936.140	3.0
2563.1278	10.00	-.87	166975.341	1.0	170875.760	1.0
2563.1278	10.00	-.40	166975.341	1.0	170875.760	2.0
2563.1666	6.00	-2.50	85625.180	0.0	89525.540	1.0
2563.2389	26.02	-3.56	218923.080	3.0	222823.330	4.0
2563.6661	8.01	-2.94	257797.900	1.5	261697.500	1.5
2563.8660	22.00	-1.01	20795.599	5.0	24694.895	4.0
2563.9804	20.00	.11	36575.119	2.0	40474.241	1.0
2563.9818	18.01	-1.60	200234.860	2.5	204133.980	2.5
2563.9949	18.01	-3.75	201030.300	.5	204929.400	.5
2563.9969	14.00	-1.92	59037.043	4.0	62936.140	3.0
2564.0711	7.00	-1.72	111204.016	2.5	115103.000	2.5
2564.1330	29.01	-2.92	140984.200	1.0	144883.090	2.0
2564.1790	10.00	-1.99	168355.510	1.0	172254.330	0.0
2564.2053	23.00	-4.55	19189.280	1.5	23088.060	1.5
2564.3619	18.00	-2.90	121932.908	1.0	125831.450	0.0
2564.3947	14.00	-2.27	59056.508	1.0	62955.000	2.0
2564.5526	10.00	-1.45	167591.233	2.0	171489.485	1.0
2564.5868	28.01	-4.24	129271.720	3.5	133169.920	3.5
2564.7644	9.00	-.62	129659.500	3.5	133557.430	2.5
2564.8105	28.01	-4.72	133001.470	.5	136899.330	1.5
2564.8171	26.02	-2.55	218860.430	2.0	222758.280	2.0
2564.8480	26.00	-4.99	47452.702	4.0	51350.505	4.0
2564.8500	28.01	-4.64	118939.530	5.5	122837.330	4.5
2565.1593	28.01	-3.21	132869.160	3.5	136766.490	2.5
2565.6399	13.01	-.51	146414.500	4.0	150311.100	3.0
2565.6399	13.01	-1.46	146414.500	4.0	150311.100	3.0
2565.6399	13.01	-2.21	146414.500	3.0	150311.100	3.0
2565.7321	6.00	-2.45	85188.950	1.0	89085.410	1.0
2565.9797	7.00	-2.40	111204.016	2.5	115100.100	2.5
2566.0218	25.00	-4.39	49415.350	2.5	53311.370	1.5
2566.0936	18.00	-.26	114975.070	1.0	118870.981	0.0
2566.2326	10.00	-1.68	168358.630	1.0	172254.330	0.0
2566.3314	9.00	.29	125877.280	1.5	129772.830	2.5
2566.3380	23.00	-2.27	38242.460	3.5	42138.000	2.5
2566.3887	10.00	-4.93	167795.897	3.0	171691.360	3.0
2566.3887	10.00	-3.49	167795.897	3.0	171691.360	4.0
2566.4368	27.00	-4.32	42811.440	3.5	46706.830	3.5
2566.6002	10.00	-4.27	167794.968	2.0	171690.110	2.0
2566.6002	10.00	-3.13	167794.968	2.0	171690.110	3.0
2566.6345	22.00	-4.88	37976.780	2.0	41871.870	2.0
2566.6938	10.00	-3.94	168586.860	0.0	172481.860	1.0
2566.6984	28.00	-1.08	45418.858	2.0	49313.851	3.0
2566.7017	14.00	-.61	45293.629	2.0	49188.617	2.0
2566.7597	22.00	-4.71	43975.710	1.0	47870.610	2.0
2566.9575	17.01	-3.14	147198.400	4.0	151093.000	3.0
2566.9575	13.01	-.08	134917.300	1.0	138811.900	1.0
2566.9575	13.01	.39	134917.300	1.0	138811.900	2.0
2567.0550	13.00	-2.11	40271.965	.5	44166.417	1.5
2567.0787	10.00	-3.62	167796.944	2.0	171691.360	3.0
2567.2126	10.00	-4.05	167795.897	3.0	171690.110	3.0
2567.4057	27.00	-4.32	41982.660	1.5	45876.580	2.5
2567.5112	26.02	-3.13	219415.610	5.0	223309.370	5.0
2567.5310	28.01	-4.53	130174.030	1.5	134067.760	1.5
2567.5778	28.00	-.67	45281.152	3.0	49174.811	4.0
2567.5969	24.00	-4.12	44080.900	2.0	47974.530	3.0
2567.7968	26.00	-4.41	32873.623	4.0	36766.950	3.0
2567.8145	17.01	-3.14	147125.700	3.0	151019.000	2.0
2567.9029	10.00	-4.20	167796.944	2.0	171690.110	2.0
2567.9419	12.00	-1.48	57204.163	3.0	61097.270	2.0
2567.9419	12.00	-2.60	57204.163	3.0	61097.270	3.0
2568.0058	22.00	-4.31	38159.710	3.0	42052.720	3.0
2568.0158	12.00	-2.54	57204.275	2.0	61097.270	2.0
2568.0158	12.00	-1.64	57204.275	2.0	61097.270	1.0
2568.0158	12.00	-3.47	57204.275	3.0	61097.270	2.0
2568.0158	12.00	-3.91	57204.275	2.0	61097.270	3.0
2568.0158	12.00	-2.76	57204.275	3.0	61097.270	3.0
2568.0158	12.00	-1.31	57204.275	4.0	61097.270	3.0
2568.1576	23.00	-2.34	38106.320	2.5	41999.100	1.5
2568.2301	6.00	-2.19	85188.950	1.0	89081.620	0.0
2568.4465	7.00	-2.31	111165.158	1.5	115057.500	1.5
2568.5204	18.01	-3.99	191974.530	1.5	195866.760	1.5
2568.5772	26.00	-3.03	49460.876	5.0	53353.020	6.0
2568.6261	18.01	-1.38	196089.870	2.5	199981.940	1.5
2568.7515	25.00	-2.93	59339.550	3.5	63231.430	4.5
2568.7845	24.00	-2.97	44666.740	1.0	48558.570	2.0
2568.9019	10.00	-4.65	167794.968	2.0	171686.620	1.0
2568.9019	10.00	-3.69	167794.968	2.0	171686.620	2.0
2569.1871	6.00	-1.39	71364.900	1.0	75256.120	0.0
2569.3324	27.00	-4.64	43199.650	2.5	47090.650	2.5
2569.3384	13.00	-1.85	40277.872	1.5	44168.863	2.5
2569.3654	6.00	-1.62	85188.950	1.0	89079.900	2.0
2569.3720	28.01	-3.88	118379.110	2.5	122270.050	3.5
2569.4645	13.01	-.18	142607.000	2.0	146497.800	3.0
2569.4652	14.00	-2.02	58775.451	2.0	62666.250	1.0
2569.6626	27.00	-3.31	49025.420	1.5	52915.920	.5
2569.7485	6.00	-.89	71364.900	1.0	75255.270	2.0
2569.7881	6.00	-4.34	83947.430	3.0	87837.740	2.0
2569.9202	18.01	-3.09	191974.530	1.5	195864.640	2.5
2570.1251	28.01	-1.66	131750.730	3.5	135640.530	4.5
2570.2110	7.00	-4.75	110385.330	2.5	114275.000	3.5
2570.2110	7.00	-3.66	110385.330	3.5	114275.000	3.5
2570.2770	28.01	-.33	122790.410	4.5	126679.980	4.5
2570.5910	7.00	-2.18	111060.905	.5	114950.000	.5
2570.5910	7.00	-2.02	111060.905	.5	114950.000	1.5
2570.6075	6.00	-1.69	71364.900	1.0	75253.970	1.0
2570.6339	17.00	-2.78	97703.640	1.5	101592.670	.5
2570.8719	7.00	-4.94	110385.330	2.5	114274.000	2.5
2570.8719	7.00	-2.79	110385.330	3.5	114274.000	2.5
2570.9546	13.00	-2.81	40277.872	1.5	44166.417	1.5
2571.0834	7.00	-3.21	110402.150	3.5	114290.500	2.5
2571.2091	28.01	-4.86	128958.370	3.5	132846.530	3.5
2571.4274	27.00	-3.74	48828.870	2.5	52716.700	3.5
2571.6721	6.00	-3.24	85203.640	2.0	89091.100	1.0
2571.7911	6.00	-3.38	83919.650	3.0	87806.930	3.0
2572.0201	26.00	-3.81	47092.693	3.0	50979.627	4.0
2572.0896	7.00	-1.10	111213.271	1.5	115100.100	2.5
2572.2809	10.01	-4.62	318180.310	2.5	322066.850	3.5
2572.3781	26.00	-2.57	48163.427	2.0	52049.820	2.0
2572.5655	10.01	-4.31	318184.270	4.5	322070.380	3.5
2572.5774	14.00	-2.99	59034.988	3.0	62921.080	2.0
2572.6058	17.00	-1.46	97004.081	1.5	100890.130	2.5
2572.6184	7.00	-4.78	110404.470	1.5	114290.500	2.5
2572.6515	7.00	-3.46	110404.520	2.5	114290.500	2.5
2573.2011	28.00	-3.18	50689.490	2.0	54574.640	1.0
2573.2740	9.00	.18	129659.500	3.5	133544.540	3.5
2573.7092	12.00	-2.01	53134.642	2.0	57019.025	2.0
2574.1155	28.01	-4.47	93390.060	2.5	97273.830	2.5
2574.2958	17.00	-4.03	92602.700	.5	96486.198	1.5
2574.4734	18.01	-3.28	196076.390	1.5	199959.620	2.5
2574.4933	13.01	-1.92	139286.800	2.0	143170.000	1.0
2574.5331	29.01	-4.85	114000.000	3.0	117883.140	4.0
2574.5596	15.00	-3.99	76425.200	2.5	80308.300	2.5
2574.5716	12.00	-1.53	53134.642	2.0	57017.724	1.0
2574.6220	18.00	-3.40	121470.304	0.0	125353.310	1.0
2574.6260	10.00	-1.29	168378.740	2.0	172261.740	1.0
2574.6584	22.00	-1.49	33655.853	2.0	37538.804	2.0
2574.6749	10.00	-2.32	167000.034	4.0	170882.960	3.0
2574.6749	10.00	-.78	167000.034	4.0	170882.960	4.0
2574.9150	22.00	-4.89	29818.310	3.0	33700.874	4.0
2574.9641	28.01	-3.61	130900.650	2.5	134783.140	2.5
2575.0172	10.01	-4.04	318186.170	4.5	322068.580	5.5
2575.0563	10.00	-3.57	167807.759	1.0	171690.110	2.0
2575.1047	12.00	-2.77	57214.992	1.0	61097.270	2.0
2575.2361	10.00	-1.76	167591.233	2.0	171473.313	2.0
2575.2892	13.01	-.41	134917.300	1.0	138799.300	0.0
2575.4020	10.00	-.89	167001.130	3.0	170882.960	3.0
2575.4020	10.00	-2.38	167001.130	3.0	170882.960	4.0
2575.4417	6.00	-2.17	85203.640	2.0	89085.410	1.0
2575.7602	28.01	-3.99	134614.550	5.5	138495.840	4.5
2575.8166	28.00	-3.03	50851.220	1.0	54732.425	2.0
2576.0191	27.00	-4.57	48753.720	1.5	52634.620	.5
2576.1320	6.00	-3.56	83926.200	3.0	87806.930	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2576.2009	10.00	-2.07	167000.034	4.0	170880.660	3.0
2576.2448	6.00	-4.68	83926.370	4.0	87806.930	3.0
2576.4838	15.00	-.93	70391.600	2.5	74271.800	1.5
2576.6100	28.01	-4.73	128966.520	4.5	132846.530	3.5
2576.6830	28.01	-3.20	131750.730	3.5	135630.630	2.5
2576.7295	27.00	-3.34	41225.760	4.5	45105.590	3.5
2576.8889	6.00	-2.26	83947.430	3.0	87827.020	2.0
2576.9287	10.00	-2.19	167001.130	3.0	170880.660	2.0
2576.9287	10.00	-3.61	167001.130	3.0	170880.660	3.0
2576.9420	6.00	-2.97	83947.430	3.0	87826.940	3.0
2577.0696	18.00	-3.32	121270.682	2.0	125150.000	3.0
2577.2676	28.01	-4.22	130174.030	1.5	134053.050	2.5
2577.2742	9.02	-2.71	440359.260	3.5	444238.270	4.5
2577.3732	10.00	-3.97	167807.759	1.0	171686.620	1.0
2577.3805	18.01	-.09	200234.860	2.5	204113.710	1.5
2577.4935	10.01	-3.82	318191.950	3.5	322070.630	2.5
2577.5001	28.01	-2.36	131750.730	3.5	135629.400	3.5
2577.5334	17.00	-2.27	90948.530	1.5	94827.150	2.5
2577.6397	6.00	-1.88	85203.640	2.0	89082.100	3.0
2577.6610	28.00	-2.19	50789.500	4.0	54667.928	4.0
2577.6636	26.00	-2.61	43499.485	4.0	47377.909	4.0
2577.7062	21.00	-2.33	32637.400	.5	36515.760	1.5
2577.7833	18.00	-4.45	121161.356	1.0	125039.600	1.0
2577.9906	14.00	-2.75	56503.346	2.0	60381.278	1.0
2578.0012	10.00	-1.48	167000.034	4.0	170877.950	4.0
2578.0012	10.00	.16	167000.034	4.0	170877.950	5.0
2578.0066	28.00	-1.59	45281.152	3.0	49159.060	2.0
2578.1582	28.01	-2.24	131750.730	3.5	135628.410	4.5
2578.1582	27.00	-3.55	48217.320	3.5	52095.000	3.5
2578.3596	14.00	-4.65	60487.103	1.0	64364.480	2.0
2578.6277	14.00	-1.59	59917.336	2.0	63794.310	2.0
2578.6436	25.00	-4.46	27248.000	1.5	31124.950	.5
2578.7254	8.00	-2.55	102908.386	3.0	106785.213	2.0
2578.7254	8.00	-1.00	102908.386	3.0	106785.213	3.0
2578.7254	8.00	.06	102908.386	3.0	106785.213	4.0
2578.7301	10.00	.06	167001.130	3.0	170877.950	4.0
2578.7527	8.00	-3.10	102908.386	3.0	106785.172	2.0
2578.7527	8.00	-2.08	102908.386	3.0	106785.172	3.0
2578.7527	8.00	-1.53	102908.386	3.0	106785.172	4.0
2578.7713	8.00	-1.00	102908.455	2.0	106785.213	2.0
2578.7713	8.00	-.09	102908.455	2.0	106785.213	3.0
2578.7986	8.00	-3.30	102908.455	2.0	106785.172	1.0
2578.7986	8.00	-2.30	102908.455	2.0	106785.172	2.0
2578.7986	8.00	-1.92	102908.455	2.0	106785.172	3.0
2578.8019	8.00	-.26	102908.501	1.0	106785.213	2.0
2578.8292	8.00	-2.60	102908.501	1.0	106785.172	2.0
2578.8292	8.00	-2.91	102908.501	1.0	106785.172	1.0
2578.9350	26.00	-3.63	48163.427	2.0	52039.939	1.0
2579.1026	6.00	-3.39	85203.640	2.0	89079.900	2.0
2579.1226	25.00	-4.22	49415.350	2.5	53291.580	2.5
2579.1532	14.00	-2.24	59917.336	2.0	63793.520	1.0
2579.3023	21.00	-1.36	32696.840	2.5	36572.800	2.5
2579.4753	15.01	-.37	127756.300	2.0	131632.000	3.0
2579.7482	28.01	-4.86	131103.180	2.5	134978.470	2.5
2580.0212	25.00	-4.22	27201.540	2.5	31076.420	1.5
2580.1809	18.00	-3.99	118407.494	1.0	122282.134	2.0
2580.2202	18.00	-3.28	121191.920	2.0	125066.501	2.0
2580.2389	10.00	-2.81	167449.464	1.0	171324.017	1.0
2580.3741	19.00	-2.87	30274.280	.5	34148.630	1.5
2580.4074	15.00	-1.72	76425.200	2.5	80299.500	1.5
2580.4327	26.00	-3.97	47420.000	2.0	51294.262	3.0
2580.5007	28.01	-3.40	129988.050	2.5	133862.210	1.5
2580.5340	20.00	-.96	44955.670	0.0	48829.780	1.0
2580.6072	13.01	.22	146274.400	2.0	150148.400	3.0
2580.6605	26.00	-4.41	47831.132	2.0	51705.052	2.0
2580.6938	19.00	-3.17	30274.280	.5	34148.150	.5
2580.8271	7.00	-3.36	110385.330	2.5	114259.000	1.5
2580.9850	7.00	-3.21	111143.567	.5	115017.000	.5
2580.9850	7.00	-1.55	111143.567	.5	115017.000	1.5
2581.1642	26.00	-4.63	47106.463	4.0	50979.627	4.0
2581.2869	22.00	-3.93	34327.960	1.0	38200.940	0.0
2581.3135	7.00	-2.77	110402.060	4.5	114275.000	3.5
2581.3735	7.00	-3.79	110402.150	3.5	114275.000	3.5
2581.4402	10.01	-4.84	318183.690	4.5	322056.440	3.5
2581.5602	6.00	-2.16	83947.430	3.0	87820.000	4.0
2581.6269	15.01	-3.71	104051.100	3.0	107923.570	2.0
2581.6269	6.00	-.93	83947.430	3.0	87819.900	3.0
2581.7401	10.01	-3.66	318183.730	5.5	322056.030	4.5
2581.7975	7.00	-.77	106477.800	.5	110350.014	.5
2581.8268	10.01	-4.02	318184.270	4.5	322056.440	3.5
2581.8569	20.00	-1.08	44957.655	1.0	48829.780	1.0
2581.8569	20.00	-.78	44957.655	1.0	48829.780	2.0
2581.9122	20.00	-2.57	44804.878	3.0	48676.920	2.0
2582.0269	28.01	-2.42	131750.730	3.5	135622.600	3.5
2582.0402	7.00	-2.77	110402.150	3.5	114274.000	2.5
2582.1823	26.00	-4.67	47590.070	4.0	51461.707	4.0
2582.7393	14.00	-2.09	60381.278	1.0	64252.080	2.0
2582.8020	26.00	-1.74	47966.571	3.0	51837.279	3.0
2582.9208	28.01	-4.82	130197.230	1.5	134067.760	1.5
2582.9475	21.00	-1.74	33846.620	3.5	37717.110	3.5
2582.9542	7.00	-4.75	110404.520	2.5	114275.000	3.5
2582.9895	26.00	-2.72	44166.240	3.0	48036.667	2.0
2583.0743	23.00	-2.95	33155.300	4.5	37025.600	3.5
2583.1017	28.00	-.55	50789.500	4.0	54659.759	5.0
2583.1677	9.00	-.46	130221.120	1.5	134091.280	1.5
2583.2078	9.00	-.17	126067.230	.5	129937.330	1.5
2583.3480	6.00	-.64	71385.380	2.0	75255.270	2.0
2583.4401	12.00	-.95	57017.078	0.0	60886.830	1.0
2583.4415	18.01	-3.46	196089.870	2.5	199959.620	2.5
2583.6217	7.00	-3.85	110404.520	2.5	114274.000	2.5
2583.6284	28.01	-3.29	95573.390	3.5	99442.860	4.5
2583.7352	28.01	-3.58	52205.950	3.5	56075.260	2.5
2583.7820	18.01	-3.80	199138.450	1.5	203007.690	1.5
2583.8714	12.00	-1.08	57017.724	1.0	60886.830	1.0
2583.8714	12.00	-.77	57017.724	1.0	60886.830	2.0
2583.8774	10.00	-1.31	167011.563	2.0	170880.660	2.0
2583.8774	10.00	-.16	167011.563	2.0	170880.660	3.0
2584.0290	15.01	-3.65	104054.700	1.0	107923.570	2.0
2584.1693	28.01	-4.02	130184.390	2.5	134053.050	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2584.2161	6.00	-1.14	71385.380	2.0	75253.970	1.0
2584.3497	17.00	-1.45	95400.731	2.5	99269.121	2.5
2584.4165	14.00	-1.87	59118.030	3.0	62986.320	2.0
2584.4746	14.00	-1.12	58801.524	1.0	62669.727	2.0
2584.5234	24.00	-4.99	50950.420	3.0	54818.550	2.0
2584.5288	14.00	-3.79	60496.358	2.0	64364.480	2.0
2584.5948	20.00	-2.25	44961.757	2.0	48829.780	1.0
2584.5948	20.00	-1.25	44961.757	2.0	48829.780	2.0
2584.5948	20.00	-.33	44961.757	2.0	48829.780	3.0
2584.7205	26.00	-4.18	44664.061	2.0	48531.896	3.0
2584.7406	12.00	-2.26	57019.025	2.0	60886.830	1.0
2584.7406	12.00	-1.25	57019.025	2.0	60886.830	2.0
2584.7406	12.00	-.33	57019.025	2.0	60886.830	3.0
2584.8441	23.00	-2.88	34374.810	3.5	38242.460	3.5
2585.0447	28.01	-3.58	131750.730	3.5	135618.080	2.5
2585.1650	10.01	-4.98	318184.260	3.5	322051.430	2.5
2585.3454	15.00	-2.06	77655.200	3.5	81522.100	2.5
2585.4324	26.02	-3.98	202429.040	1.0	206295.810	1.0
2585.4331	14.00	.12	45321.848	3.0	49188.617	2.0
2585.4919	10.00	-1.63	159534.620	1.0	163401.301	0.0
2585.6197	9.00	-.62	126282.580	1.5	130149.070	.5
2585.8136	15.00	-2.70	75353.400	1.5	79219.600	.5
2586.0477	27.00	-4.99	50611.220	3.5	54477.070	3.5
2586.4692	27.00	-2.17	46746.000	2.5	50611.220	3.5
2586.4759	6.00	-4.08	85188.950	1.0	89054.160	2.0
2586.5896	27.00	-3.61	48837.720	.5	52702.760	1.5
2586.6070	14.00	-4.09	56780.427	1.0	60645.441	2.0
2586.6486	10.00	-.06	167794.968	2.0	171659.920	3.0
2586.7302	28.01	-4.25	104503.220	2.5	108368.050	2.5
2586.7791	14.00	-3.21	60487.103	1.0	64351.860	1.0
2586.8024	10.00	-1.21	167794.968	2.0	171659.690	2.0
2586.8373	10.01	-4.15	318202.210	1.5	322066.880	2.5
2587.1540	10.00	-1.73	167011.563	2.0	170875.760	1.0
2587.1540	10.00	-.78	167011.563	2.0	170875.760	2.0
2587.2704	10.00	-1.23	167795.897	3.0	171659.920	3.0
2587.2704	10.00	.08	167795.897	3.0	171659.920	4.0
2587.4245	10.00	-2.53	167795.897	3.0	171659.690	2.0
2587.4245	10.00	-1.36	167795.897	3.0	171659.690	3.0
2587.5336	9.00	.49	130221.120	1.5	134084.750	2.5
2587.6836	10.00	-3.04	167449.464	1.0	171312.870	0.0
2587.7801	22.00	-3.19	37617.868	4.0	41481.130	5.0
2587.9716	10.00	-2.53	167796.944	2.0	171659.920	3.0
2588.1258	10.00	-1.39	167796.944	2.0	171659.690	2.0
2588.1258	10.00	-.05	167796.944	2.0	171659.690	3.0
2588.1767	7.00	-4.83	110385.330	2.5	114248.000	3.5
2588.1767	7.00	-2.88	110385.330	3.5	114248.000	3.5
2588.4052	22.00	-3.79	37852.021	1.0	41714.350	2.0
2588.4709	17.00	-1.81	91538.500	1.5	95400.731	2.5
2588.5574	14.00	-2.37	60381.278	1.0	64243.380	2.0
2588.6545	26.00	-3.36	54112.203	2.0	57974.160	2.0
2588.8007	17.00	-1.68	97004.081	1.5	100865.820	2.5
2589.0413	10.00	-4.15	169748.150	1.0	173609.530	1.0
2589.1090	17.00	-2.00	97004.081	1.5	100865.360	1.5
2589.1486	22.00	-3.39	41624.130	4.0	45485.350	5.0
2589.3009	7.00	-4.78	112294.007	.5	116155.000	.5
2589.5698	18.00	-4.87	117151.387	1.0	121011.979	1.0
2589.7522	10.00	-3.44	169748.150	1.0	173608.470	2.0
2589.9066	9.00	.14	130059.400	.5	133919.490	1.5
2589.9811	7.00	-4.08	110385.330	3.5	114245.309	4.5
2590.0542	28.01	-4.62	132729.480	2.5	136589.350	3.5
2590.3092	10.01	-4.69	318191.940	2.5	322051.430	2.5
2590.3159	10.01	-4.60	318191.950	3.5	322051.430	2.5
2590.5911	9.00	-.54	126282.580	1.5	130141.650	1.5
2590.6166	18.00	-3.90	121932.908	1.0	125791.940	2.0
2590.6314	10.01	-3.91	318191.940	2.5	322050.950	1.5
2590.8570	22.00	-2.42	33680.130	3.0	37538.804	2.0
2590.8717	7.00	-1.92	111198.848	.5	115057.500	1.5
2591.0745	28.01	-3.66	122821.630	5.5	126679.980	4.5
2591.1753	22.00	-1.45	41906.510	2.0	45764.710	1.0
2591.3768	22.00	-4.05	44375.570	5.0	48233.470	6.0
2591.4440	13.01	-1.16	144964.700	3.0	148822.500	2.0
2591.4440	13.01	-2.59	144964.700	3.0	148822.500	3.0
2591.4440	13.01	-4.02	144964.700	3.0	148822.500	4.0
2591.4440	13.01	-2.66	144964.700	4.0	148822.500	3.0
2591.4440	13.01	-1.21	144964.700	4.0	148822.500	3.0
2591.4440	13.01	-2.46	144964.700	4.0	148872.500	4.0
2591.4440	13.01	-2.60	144964.700	4.0	148822.500	4.0
2591.4440	13.01	-.93	144964.700	5.0	148822.500	4.0
2591.5448	17.00	-1.83	96313.330	1.5	100170.980	1.5
2591.6320	6.00	-3.69	83919.650	3.0	87777.170	3.0
2591.6992	28.01	-4.96	128960.740	5.5	132818.160	4.5
2591.7059	6.00	-4.58	83919.760	2.0	87777.170	3.0
2591.8497	22.00	-8.21	12118.394	4.0	15975.590	3.0
2591.9411	27.00	-4.35	49847.080	2.5	53704.140	2.5
2592.0151	22.00	-4.74	44079.840	2.0	47936.790	3.0
2592.2839	21.00	-1.55	32659.210	1.5	36515.760	1.5
2592.3175	15.00	-1.46	75905.100	2.5	79761.600	2.5
2592.3511	26.02	-2.39	219415.610	5.0	223272.060	6.0
2592.4318	56.01	.15	46154.890	0.0	50012.272	0.0
2592.4661	26.00	-2.29	48163.427	2.0	52019.706	1.0
2592.4836	18.00	-3.31	121257.227	1.0	125113.480	2.0
2592.4896	14.00	-1.68	59917.336	2.0	63773.580	2.0
2592.5010	12.00	-3.83	57204.163	3.0	61060.390	2.0
2592.5642	14.00	-.11	57450.580	3.0	61306.713	4.0
2592.5764	12.00	-1.49	57204.275	3.0	61060.390	2.0
2592.5764	12.00	-2.86	57204.275	2.0	61060.390	2.0
2592.6845	14.00	-1.68	59917.336	2.0	63773.290	3.0
2592.7747	28.01	-4.59	130197.230	1.5	134053.050	2.5
2592.8688	18.01	-.69	186340.480	1.5	190196.160	.5
2592.9125	26.00	-3.84	47606.092	5.0	51461.707	4.0
2592.9886	14.00	-2.03	60496.358	2.0	64351.860	1.0
2592.9953	14.00	-1.64	60496.358	2.0	64351.850	3.0
2593.0437	21.00	-1.51	32637.400	.5	36492.820	.5
2593.1647	25.00	-2.51	41403.930	2.5	45259.170	1.5
2593.2926	27.00	-3.91	49847.080	2.5	53702.130	3.5
2593.3262	15.00	-1.63	75484.400	2.5	79339.400	1.5
2593.3531	9.02	-3.79	440202.480	2.5	444057.440	1.5
2593.4675	26.02	-3.60	219471.970	4.0	223326.760	4.0
2593.6761	7.00	-2.86	110404.520	2.5	114259.000	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2593.6828	14.00	-1.94	57450.580	3.0	61305.050	3.0
2593.7144	13.00	-1.94	43337.877	1.5	47192.300	2.5
2593.7703	28.01	-3.25	132912.150	2.5	136766.490	2.5
2593.8779	28.01	-2.62	116312.340	1.5	120166.520	1.5
2594.0442	17.00	-3.79	91680.990	1.5	95534.923	.5
2594.1990	14.00	-2.30	57450.580	3.0	61304.283	2.0
2594.2198	10.00	-.38	167026.988	1.0	170880.660	2.0
2594.2347	28.01	-4.81	96535.870	3.5	100389.520	2.5
2594.2481	17.00	-2.49	97739.040	.5	101592.670	.5
2594.3155	28.01	-4.52	128964.630	4.5	132818.160	4.5
2594.3289	28.01	-4.58	131124.960	3.5	134978.470	2.5
2594.3464	7.00	-2.78	111204.016	2.5	115057.500	1.5
2594.3761	6.00	-3.22	83919.650	3.0	87773.090	2.0
2594.4367	17.00	-1.88	97739.320	1.5	101592.670	.5
2594.4502	6.00	-3.17	83919.760	2.0	87773.090	2.0
2594.5302	18.00	-1.00	121011.979	1.0	124865.190	2.0
2594.6319	26.00	-2.84	44183.607	2.0	48036.667	2.0
2594.8064	14.00	-1.25	57450.580	3.0	61303.381	3.0
2594.8609	28.00	-2.21	45418.858	2.0	49271.578	3.0
2594.8878	27.00	-3.84	48217.320	3.5	52070.000	2.5
2595.3924	10.00	-.26	167807.759	1.0	171659.690	2.0
2595.4524	7.00	-2.67	111165.158	1.5	115017.000	.5
2595.4524	7.00	-2.16	111165.158	1.5	115017.000	1.5
2595.5885	28.01	-4.72	128966.520	5.5	132818.160	4.5
2595.9255	26.02	-2.77	218923.080	3.0	222774.220	2.0
2595.9800	11.00	-1.28	34548.731	2.5	38399.790	2.5
2595.9800	11.00	.03	34548.731	2.5	38399.790	3.5
2596.0036	11.00	-.13	34548.766	1.5	38399.790	2.5
2596.0063	9.00	-1.71	129772.830	2.5	133623.850	1.5
2596.0266	9.00	-.17	130059.400	.5	133910.390	.5
2596.0401	6.00	-3.34	83926.200	3.0	87777.170	3.0
2596.0926	18.00	-3.51	121932.908	1.0	125783.800	1.0
2596.1547	6.00	-2.33	83926.370	4.0	87777.170	3.0
2596.3434	6.00	-3.12	85203.640	2.0	89054.160	2.0
2596.3839	14.00	-.93	59118.030	3.0	62968.490	4.0
2596.7454	10.00	-1.59	167639.561	1.0	171489.485	1.0
2597.1461	25.00	-3.10	57621.900	1.5	61471.230	2.5
2597.4902	18.01	-.16	201345.220	1.5	205194.040	1.5
2597.5226	10.00	-1.29	167026.988	1.0	170875.760	1.0
2597.5226	10.00	-1.08	167026.988	1.0	170875.760	2.0
2597.6252	28.01	-3.66	101740.270	3.5	105588.890	4.5
2598.3004	28.01	-3.30	116468.400	1.5	120316.020	.5
2598.3071	28.01	-4.33	133715.130	4.5	137562.740	3.5
2598.3949	15.00	-3.45	66544.120	2.5	70391.600	2.5
2598.5651	17.00	-1.82	84132.262	2.5	87979.490	3.5
2598.7394	9.00	.15	125637.690	2.5	129484.660	1.5
2598.7935	6.00	-2.69	83926.200	3.0	87773.090	2.0
2598.8070	7.00	-3.40	110385.330	2.5	114232.200	1.5
2598.8137	7.00	-4.44	110349.140	3.5	114196.000	2.5
2598.8272	14.00	-.92	60704.530	3.0	64551.370	4.0
2598.9218	19.02	-3.79	242165.300	1.5	246012.000	1.5
2598.9353	26.00	-.80	50901.060	2.0	54747.740	1.0
2598.9826	10.01	-.05	303928.100	.5	307774.710	1.5
2599.0975	22.01	-3.53	59321.790	2.5	63168.230	2.5
2599.1177	22.00	-4.79	37976.780	2.0	41823.190	3.0
2599.1786	6.00	-4.35	83986.220	3.0	87832.540	2.0
2599.3475	25.00	-4.10	49415.350	2.5	53261.420	3.5
2599.3576	14.00	-1.85	60815.925	2.0	64661.980	3.0
2599.4354	7.00	-2.39	110402.060	4.5	114248.000	3.5
2599.4624	30.02	-.41	258075.700	3.0	261921.600	2.0
2599.4962	7.00	-3.44	110402.150	3.5	114248.000	3.5
2599.5435	10.01	-4.56	277325.600	1.5	281171.380	2.5
2599.5976	29.01	-1.95	135135.600	1.0	138981.300	2.0
2599.6922	26.01	-2.42	83726.240	3.5	87571.800	2.5
2599.7727	18.00	-2.44	121011.979	1.0	124857.420	2.0
2599.8018	12.00	-2.52	57214.992	1.0	61060.390	2.0
2599.8741	18.00	-2.99	121011.979	1.0	124857.270	1.0
2600.1243	7.00	-.42	106477.800	.5	110322.721	1.5
2600.1453	28.01	-4.67	131133.580	2.5	134978.470	2.5
2600.1628	14.00	-2.07	59917.336	2.0	63762.200	3.0
2600.1723	27.00	-2.88	48317.170	3.5	52162.020	3.5
2600.3820	27.00	-3.82	48615.560	2.5	52460.100	2.5
2600.4543	7.00	-2.16	111143.567	.5	114988.000	.5
2600.4543	7.00	-2.99	111143.567	.5	114988.000	1.5
2600.4821	18.00	-3.43	121932.908	1.0	125777.300	1.0
2600.5923	7.00	-1.49	111213.271	1.5	115057.500	1.5
2600.6390	28.01	-4.43	130208.890	3.5	134053.050	2.5
2600.6593	20.01	.41	70677.620	.5	74521.750	1.5
2600.6796	13.01	-1.95	138518.700	2.0	142362.800	2.0
2600.6796	13.01	-1.22	138518.700	2.0	142362.800	1.0
2600.6796	13.01	-3.50	138518.700	2.0	142362.800	3.0
2600.7202	23.00	-2.70	37075.640	4.5	40919.680	5.5
2600.7878	7.00	-4.60	110349.060	2.5	114193.000	1.5
2601.2555	7.00	-2.92	110402.060	4.5	114245.309	4.5
2601.3164	7.00	-4.96	110402.150	3.5	114245.309	4.5
2601.4511	26.02	-2.54	218923.080	3.0	222766.040	3.0
2601.4897	26.00	-2.48	44378.420	1.0	48221.323	1.0
2601.4985	26.02	-3.42	218923.080	3.0	222765.970	4.0
2601.5607	18.00	-4.95	121270.682	2.0	125113.480	2.0
2601.6610	78.01	-4.06	122837.330	4.5	126679.980	4.5
2601.7693	18.01	-3.21	201351.550	2.5	205194.040	1.5
2602.0151	7.00	-2.02	111260.873	3.5	115103.000	2.5
2602.7379	28.01	-4.16	135261.990	4.5	139103.050	5.5
2602.7393	26.00	-4.49	49434.142	6.0	53275.200	7.0
2602.8057	6.00	-4.68	83919.650	3.0	87760.610	4.0
2602.8836	10.00	-1.77	167648.640	2.0	171489.485	1.0
2602.9005	24.00	-2.83	44666.740	1.0	48507.560	1.0
2602.9277	28.01	-4.18	130942.360	1.5	134783.140	2.5
2603.0496	18.01	-2.16	196119.020	3.5	199959.620	2.5
2603.0524	26.00	-3.61	47929.981	4.0	51770.577	3.0
2603.2733	28.01	-4.27	115956.710	2.5	119796.980	2.5
2603.2937	28.01	-4.43	130227.520	2.5	134067.760	1.5
2603.8008	14.00	-4.56	59034.988	3.0	62874.480	2.0
2603.9311	20.02	-4.89	370304.540	2.0	374143.840	3.0
2603.9378	27.00	-3.37	48317.170	3.5	52156.460	4.5
2604.2417	7.00	-2.52	111165.158	1.5	115004.000	2.5
2604.4602	28.01	-4.00	132927.970	1.5	136766.490	2.5
2604.8131	28.01	-2.37	100309.290	5.5	104147.290	5.5
2605.1232	22.00	-4.70	29818.310	3.0	33655.853	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2605.1796	8.00	-2.09	102928.355	4.0	106765.815	3.0
2605.1843	17.00	-1.47	97338.887	2.5	101176.340	2.5
2605.1992	14.00	-4.04	57468.239	2.0	61305.670	1.0
2605.2203	26.02	-2.44	219471.970	4.0	223309.370	5.0
2605.2991	17.00	-.17	97338.887	2.5	101176.171	3.5
2605.3290	28.01	-4.50	134658.600	4.5	138495.840	4.5
2605.4715	24.00	-4.33	44080.900	2.0	47917.930	2.0
2605.5122	14.00	-2.63	59118.030	3.0	62955.000	2.0
2605.8791	14.00	-1.03	59118.030	3.0	62954.460	3.0
2606.0828	18.01	-2.10	196315.510	2.5	200151.640	1.5
2606.1100	23.00	-4.79	34167.840	2.5	38003.930	1.5
2606.3158	14.00	-2.25	53362.240	3.0	57198.027	3.0
2606.4518	14.00	-2.09	60487.103	1.0	64322.690	0.0
2606.5313	18.01	-4.29	211606.470	3.5	215441.940	4.5
2606.6006	10.00	-2.04	165912.782	1.0	169748.150	1.0
2606.6122	10.00	-.13	167047.609	2.0	170882.960	3.0
2606.6468	13.01	.09	146274.400	2.0	150109.700	3.0
2606.7148	26.02	-3.16	218923.080	3.0	222758.280	2.0
2606.7181	7.00	-4.49	112319.805	1.5	116155.000	.5
2606.7555	18.01	-.72	201345.220	1.5	205180.360	.5
2606.9642	26.00	-3.49	40842.130	3.0	44676.963	4.0
2606.9866	17.01	-2.24	149798.300	2.0	153633.100	1.0
2607.2519	6.00	-4.89	83926.200	3.0	87760.610	4.0
2607.2790	28.01	-1.17	131796.260	2.5	135630.630	2.5
2607.3266	29.01	-2.34	146415.700	2.0	150250.000	2.0
2607.3328	10.00	-1.43	167048.669	3.0	170882.960	3.0
2607.3328	10.00	.01	167048.669	3.0	170882.960	4.0
2607.3674	6.00	-3.33	83926.370	4.0	87760.610	4.0
2607.5306	30.02	-2.67	258075.700	3.0	261909.700	4.0
2607.6599	18.01	-3.42	196305.040	3.5	200138.850	3.5
2607.6994	10.00	-2.28	167639.561	1.0	171473.313	2.0
2607.7483	9.00	-1.65	129772.830	2.5	133606.510	3.5
2607.7959	21.00	-1.54	32659.210	1.5	36492.820	.5
2608.1157	28.01	-.99	131796.260	2.5	135629.400	3.5
2608.1762	10.00	-.83	167047.609	2.0	170880.660	2.0
2608.1762	10.00	-1.97	167047.609	2.0	170880.660	3.0
2608.3246	26.00	-2.78	43922.652	3.0	47755.485	3.0
2608.3947	27.00	-2.87	46746.000	2.5	50578.730	3.5
2608.6329	28.01	-1.00	122847.600	3.5	126679.980	4.5
2608.6601	28.01	-4.86	114942.420	1.5	118774.760	.5
2608.8977	10.00	-1.98	167048.669	3.0	170880.660	2.0
2608.8977	10.00	-.67	167048.669	3.0	170880.660	3.0
2608.9596	10.01	-2.61	303237.910	1.5	307069.810	1.5
2608.9733	22.00	-4.63	44162.440	4.0	47994.320	5.0
2609.1945	14.00	-.90	60815.925	2.0	64647.480	3.0
2609.6516	28.00	-2.58	45122.460	1.0	48953.344	1.0
2609.6713	14.00	-1.94	60815.925	2.0	64646.780	2.0
2609.7497	7.00	-3.95	110459.760	1.5	114290.500	2.5
2609.9064	6.00	-2.34	84013.400	2.0	87843.910	1.0
2610.2675	28.01	-4.80	105439.850	1.5	109269.830	1.5
2610.4379	9.00	-.78	130141.650	1.5	133971.380	1.5
2610.5947	38.01	.43	64964.100	0.0	68794.645	0.0
2610.6629	14.02	.02	254002.000	1.0	257831.400	2.0
2610.7440	10.00	-4.71	167048.669	3.0	170877.950	4.0
2610.8709	7.00	-2.49	111060.905	.5	114890.000	1.5
2610.9288	24.00	-4.20	44088.920	1.0	47917.930	2.0
2611.1961	26.00	-4.29	48238.832	2.0	52067.450	2.0
2611.2766	28.01	-3.71	117074.700	3.5	120903.200	3.5
2611.3000	2.00	-1.62	191447.000	0.0	195276.510	0.0
2611.3959	18.00	-1.58	117183.654	2.0	121011.979	1.0
2611.4607	18.01	-.90	203918.150	1.5	207746.380	2.5
2611.5147	10.00	-2.11	167047.609	2.0	170875.760	1.0
2611.5147	10.00	-3.06	167047.609	2.0	170875.760	2.0
2611.5652	18.00	-1.41	114641.040	2.0	118469.117	2.0
2611.6518	26.02	-4.07	219004.530	4.0	222832.480	5.0
2611.8019	7.00	-3.87	110404.470	1.5	114232.200	1.5
2611.8156	25.00	-4.81	56567.930	1.5	60395.640	1.5
2611.8360	7.00	-4.00	110404.520	2.5	114232.200	1.5
2611.8906	15.04	-1.13	410631.100	2.5	414458.700	2.5
2611.8906	15.04	.17	410631.100	2.5	414458.700	3.5
2611.8906	15.04	.02	410631.100	1.5	414458.700	2.5
2611.9657	10.01	-1.18	303071.840	2.5	306899.330	2.5
2612.0271	14.02	-.72	254004.000	2.0	257831.400	2.0
2612.0271	14.02	.19	254004.000	2.0	257831.400	3.0
2612.0749	28.01	-1.86	131796.260	2.5	135623.590	1.5
2612.1772	28.01	-3.61	130225.870	3.5	134053.050	2.5
2612.1772	22.00	-1.60	41985.830	3.0	45813.010	2.0
2612.1977	26.02	-3.80	218923.080	3.0	222750.230	3.0
2612.2380	10.00	-1.91	167048.669	3.0	170875.760	2.0
2612.2387	10.01	-3.76	277344.290	2.5	281171.380	2.5
2612.5458	6.00	-4.77	85625.180	0.0	89451.820	1.0
2612.6414	30.02	-2.22	260805.900	2.0	264632.400	3.0
2612.7097	13.01	-1.02	138536.400	3.0	142362.800	2.0
2612.7097	13.01	-1.92	138536.400	3.0	142362.800	3.0
2612.8190	28.01	-4.37	117872.780	2.5	121699.020	1.5
2612.8592	14.00	-2.17	59109.959	3.0	62936.140	3.0
2612.8668	22.00	-4.44	44233.650	3.0	48059.820	3.0
2612.9556	26.00	-4.37	50475.320	4.0	54301.360	4.0
2613.0170	28.01	-4.51	116087.380	4.5	119913.330	4.5
2613.1468	28.01	-3.41	112686.300	2.5	116512.060	3.5
2613.3039	28.01	-3.81	130227.520	2.5	134053.050	2.5
2613.4966	14.00	-3.53	59110.892	2.0	62936.140	3.0
2613.8895	10.00	-1.46	167648.640	2.0	171473.313	2.0
2614.2059	25.01	-3.49	82136.200	4.0	85960.410	3.0
2614.3289	9.00	.35	130141.650	1.5	133965.680	2.5
2614.4042	14.02	-2.26	254007.480	3.0	257831.400	2.0
2614.4042	14.02	-.72	254007.480	3.0	257831.400	3.0
2614.4042	14.02	.35	254007.480	3.0	257831.400	4.0
2614.5888	28.01	-1.89	131796.260	2.5	135619.910	1.5
2614.5888	25.00	-3.20	59600.350	2.5	63424.000	3.5
2614.6025	23.00	-8.16	14548.830	2.5	18372.460	3.5
2614.8008	18.01	-4.66	196315.510	2.5	200138.850	3.5
2614.9362	7.00	-.57	103622.480	.5	107445.624	1.5
2614.9547	8.00	-2.15	102928.355	4.0	106751.470	3.0
2614.9622	8.00	-4.28	102928.355	4.0	106751.459	4.0
2615.1414	7.00	-2.35	111165.158	1.5	114988.000	.5
2615.1414	7.00	-1.69	111165.158	1.5	114988.000	1.5
2615.1414	7.00	-1.53	111165.158	1.5	114988.000	2.5
2615.3275	26.02	-3.12	198333.560	2.0	202156.130	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2615.3946	18.00	-4.26	118459.662	1.0	122282.134	2.0
2615.4370	28.01	-2.80	100475.820	3.5	104298.230	4.5
2615.4438	29.01	-4.69	146427.600	1.0	150250.000	2.0
2615.5054	9.00	.13	130149.070	.5	133971.380	1.5
2615.5239	17.00	-2.81	97354.057	1.5	101176.340	2.5
2615.6902	18.01	-2.90	199679.760	2.5	203501.800	2.5
2615.8408	28.01	-1.92	131796.260	2.5	135618.080	2.5
2616.0666	24.00	-3.18	44666.740	1.0	48488.230	0.0
2616.2241	21.00	-.72	32751.540	3.5	36572.800	2.5
2616.3336	15.00	-3.12	78069.000	1.5	81890.100	2.5
2616.4227	15.01	-3.39	104102.600	2.0	107923.570	2.0
2616.4987	26.00	-3.52	49460.876	5.0	53281.735	5.0
2616.5870	27.00	-2.96	48443.760	2.5	52264.490	1.5
2616.6007	6.00	-3.58	83986.220	3.0	87806.930	3.0
2616.6829	28.01	-3.28	132912.150	2.5	136732.740	1.5
2616.6959	10.00	-3.75	167052.657	2.0	170873.228	3.0
2616.7583	6.00	-2.29	83986.450	4.0	87806.930	3.0
2616.9411	10.00	-3.94	167052.645	1.0	170872.858	2.0
2616.9493	10.00	-4.94	167052.657	2.0	170872.858	2.0
2617.2036	18.01	-4.77	199525.150	1.5	203344.980	1.5
2617.2604	17.00	-4.20	95534.923	.5	99354.670	1.5
2617.5667	30.02	-.37	260418.100	2.0	264237.400	1.0
2617.5736	6.00	-2.08	84013.250	3.0	87832.540	2.0
2617.6763	6.00	-3.07	84013.400	2.0	87832.540	2.0
2617.7243	26.02	-2.52	198337.060	3.0	202156.130	2.0
2617.8272	21.00	-1.28	32696.840	2.5	36515.760	1.5
2617.9232	14.00	-.07	59118.030	3.0	62936.810	4.0
2618.0314	18.00	-2.71	114641.040	2.0	118459.662	1.0
2618.3345	29.01	-3.12	118163.500	2.0	121981.680	2.0
2618.3538	7.00	-2.21	111198.848	.5	115017.000	.5
2618.3538	7.00	-1.35	111198.848	.5	115017.000	1.5
2618.5000	2.00	.45	191445.000	0.0	195263.980	0.0
2618.6432	14.00	-2.01	59118.030	3.0	62935.760	3.0
2618.8997	7.00	-1.98	111285.644	1.5	115103.000	2.5
2619.0410	27.00	-4.20	47225.110	3.5	51042.260	2.5
2619.3018	6.00	-3.04	84013.400	2.0	87830.170	1.0
2619.3409	18.00	-2.50	119444.880	2.0	123261.593	2.0
2619.7823	25.01	-3.58	82144.340	3.0	85960.410	3.0
2619.8000	2.00	-.03	191447.000	0.0	195264.085	0.0
2619.8468	18.00	-2.42	121470.304	0.0	125286.280	1.0
2619.9608	6.00	-2.70	83947.430	3.0	87763.240	3.0
2620.0569	6.00	-2.00	83947.430	3.0	87763.100	4.0
2620.1000	3.00	.27	36623.000	0.0	40439.648	0.0
2620.1462	6.00	-2.20	83919.760	2.0	87735.300	1.0
2620.3068	10.00	-3.18	167052.645	1.0	170867.951	1.0
2620.3151	10.00	-2.86	167052.657	2.0	170867.951	1.0
2620.3797	28.01	-4.94	100332.090	4.5	104147.290	5.5
2620.5418	14.00	-1.89	60848.946	4.0	64663.910	4.0
2620.5802	14.00	-2.22	59110.892	2.0	62925.800	1.0
2620.6613	6.00	-4.39	83947.430	3.0	87762.220	2.0
2620.6640	26.00	-3.53	46889.126	4.0	50703.912	5.0
2620.7300	6.00	-2.42	83947.430	3.0	87762.120	3.0
2620.7918	26.00	-4.38	47555.584	1.0	51370.184	2.0
2620.8331	17.00	-1.92	98372.970	1.5	102187.510	2.5
2620.8908	7.00	-2.63	111285.644	1.5	115100.100	2.5
2621.0392	7.00	-3.70	110459.760	1.5	114274.000	2.5
2621.1492	17.00	-.80	98373.430	2.5	102187.510	2.5
2621.3148	22.00	-3.43	37555.021	3.0	41368.860	4.0
2621.4715	26.00	-3.09	46720.824	4.0	50534.435	3.0
2621.8964	7.00	-4.07	112294.007	.5	116107.000	1.5
2621.9026	7.00	-3.82	111204.016	2.5	115017.000	1.5
2621.9101	5.00	-3.09	60031.027	2.5	63844.000	2.5
2621.9101	5.00	-1.79	60031.027	3.5	63844.000	2.5
2621.9101	5.00	-1.94	60031.027	2.5	63844.000	1.5
2621.9418	10.00	-4.85	167060.301	4.0	170873.228	3.0
2621.9604	13.01	-1.13	142601.600	3.0	146414.500	3.0
2621.9604	13.01	.24	142601.600	3.0	146414.500	4.0
2621.9604	13.01	-2.18	142601.600	3.0	146414.500	4.0
2622.0016	26.02	-2.06	201919.530	4.0	205732.370	3.0
2622.2107	26.00	-.94	32873.623	4.0	36686.159	4.0
2622.2354	15.00	-4.28	77655.200	3.5	81467.700	4.5
2622.7858	23.00	-3.00	37940.080	.5	41751.780	1.5
2623.1842	14.00	-1.23	59109.959	3.0	62921.080	2.0
2623.2758	26.00	-3.66	48238.832	2.0	52049.820	2.0
2623.3088	7.00	-2.42	110349.060	2.5	114160.000	1.5
2623.3088	7.00	-3.57	110349.060	2.5	114160.000	2.5
2623.3639	7.00	-2.26	110349.140	3.5	114160.000	2.5
2623.4465	9.00	-1.16	129772.830	2.5	133583.570	2.5
2623.4672	21.00	-.81	33906.400	4.5	37717.110	3.5
2623.4706	18.00	-1.01	116942.815	3.0	120753.520	3.0
2623.4837	12.00	-1.09	57017.724	1.0	60828.410	2.0
2623.4947	7.00	-3.28	110385.330	2.5	114196.000	2.5
2623.4947	7.00	-3.95	110385.330	3.5	114196.000	2.5
2623.5016	26.01	-1.76	83726.240	3.5	87536.900	3.5
2623.5360	6.00	-2.63	84036.290	1.0	87846.900	0.0
2623.5842	22.00	-4.62	44375.570	5.0	48186.110	4.0
2623.6806	13.01	-3.59	144990.000	4.0	148800.400	4.0
2623.6806	13.01	-3.73	144990.000	4.0	148800.400	4.0
2623.6806	13.01	-1.97	144990.000	5.0	148800.400	4.0
2623.6806	13.01	-1.97	144990.000	5.0	148800.400	4.0
2623.6806	13.01	-3.61	144990.000	5.0	148800.400	5.0
2623.6806	13.01	-3.71	144990.000	5.0	148800.400	5.0
2623.6806	13.01	-1.88	144990.000	6.0	148800.400	5.0
2623.6806	13.01	-2.07	144990.000	4.0	148800.400	3.0
2623.7240	10.00	-3.57	167052.645	1.0	170862.982	2.0
2623.7322	10.00	-2.62	167052.657	2.0	170862.982	2.0
2623.7398	17.00	-3.32	95597.593	.5	99407.907	.5
2623.8266	14.00	-2.05	59110.892	2.0	62921.080	2.0
2623.8279	26.00	-3.00	44411.137	1.0	48221.323	1.0
2623.8376	26.00	-3.92	46888.494	2.0	50698.666	2.0
2623.8802	18.00	-1.24	119444.880	2.0	123254.990	1.0
2623.9560	15.00	-1.46	75705.400	3.5	79515.400	3.5
2624.3797	12.00	-1.57	57019.025	2.0	60828.410	2.0
2624.3831	10.01	-4.23	314018.940	.5	317828.320	.5
2624.4107	25.01	-4.19	82151.070	2.0	85960.410	3.0
2624.4561	18.00	-2.85	121257.227	1.0	125066.501	2.0
2624.5416	26.00	-3.61	54004.820	3.0	57813.970	3.0
2624.8000	2.00	-1.89	191452.000	0.0	195261.814	0.0
2625.0791	26.00	-.70	50803.350	2.0	54611.720	2.0
2625.1000	2.00	-1.41	191452.000	0.0	195261.379	0.0
2625.1549	20.00	-3.12	44762.620	2.0	48570.880	2.0
2625.1549	20.00	-2.22	44762.620	2.0	48570.880	1.0
2625.1549	20.00	-4.49	44762.620	2.0	48570.880	3.0
2625.3059	20.00	-2.21	44762.839	3.0	48570.880	2.0
2625.3059	20.00	-2.95	44762.839	3.0	48570.880	3.0
2625.4983	20.00	-1.88	44763.118	4.0	48570.880	3.0
2625.5962	6.00	-2.71	84036.290	1.0	87843.910	1.0
2625.6721	6.00	-3.53	84036.400	2.0	87843.910	1.0
2625.7617	26.00	-3.70	46727.055	2.0	50534.435	3.0
2625.8168	20.01	.11	70677.620	.5	74484.920	.5
2625.9341	27.00	-2.54	44394.470	3.5	48201.600	3.5
2626.0000	3.00	-1.59	36630.000	0.0	40438.073	0.0
2626.0031	20.00	-1.08	44955.670	0.0	48762.700	1.0
2626.4150	7.00	-2.28	111143.567	.5	114950.000	.5
2626.4150	7.00	-3.34	111143.567	.5	114950.000	1.5
2626.5757	15.00	-4.26	72386.100	2.5	76192.300	1.5
2626.6792	26.00	-3.55	53891.540	3.0	57697.590	4.0
2626.9967	6.00	-1.25	84032.150	1.0	87837.740	1.0
2626.9967	6.00	-1.98	84032.150	1.0	87837.740	2.0
2627.0900	14.00	-1.84	56690.903	2.0	60496.358	2.0
2627.3730	20.00	-1.20	44957.655	1.0	48762.700	1.0
2627.3730	20.00	-.89	44957.655	1.0	48762.700	2.0
2627.5629	28.01	-3.24	132927.970	1.5	136732.740	1.5
2627.7010	9.00	-1.66	129772.830	2.5	133577.400	1.5
2627.7287	7.00	-4.15	110404.470	1.5	114209.000	.5
2627.8965	28.00	-3.04	47030.148	3.0	50834.435	2.0
2627.9600	7.00	-3.82	112319.805	1.5	116124.000	2.5
2627.9614	10.00	-2.51	167069.064	3.0	170873.228	3.0
2627.9904	10.00	-3.83	167069.077	2.0	170873.228	3.0
2628.0671	27.00	-2.29	48317.170	3.5	52121.210	4.5
2628.0906	26.00	-2.38	47966.571	3.0	51770.577	3.0
2628.1777	18.01	-3.86	194800.180	4.5	198604.060	4.5
2628.2260	26.00	-2.92	47177.210	1.0	50981.020	0.0
2628.2371	10.00	-3.84	167069.064	3.0	170872.858	2.0
2628.2399	17.00	-2.65	98383.720	3.5	102187.510	2.5
2628.2461	10.00	-2.66	167069.077	2.0	170872.858	2.0
2628.2820	7.00	-2.52	111213.271	1.5	115017.000	.5
2628.2820	7.00	-2.35	111213.271	1.5	115017.000	1.5
2628.3711	13.01	-.82	138559.200	4.0	142362.800	3.0
2628.3919	28.01	-3.14	116468.400	1.5	120271.970	2.5
2628.8550	13.01	.21	135009.000	0.0	138811.900	1.0
2629.4081	25.01	-4.19	35004.430	3.0	38806.530	4.0
2629.4773	30.02	-2.14	260981.900	3.0	264783.900	4.0
2629.5526	28.00	-2.52	47030.148	3.0	50832.039	3.0
2629.6225	7.00	-2.29	110473.210	4.5	114275.000	3.5
2629.8127	18.00	-1.17	118906.665	2.0	122708.180	2.0
2629.9788	18.00	0.00	118906.665	2.0	122707.940	3.0
2630.0521	26.00	-4.13	45333.834	2.0	49135.003	3.0
2630.0950	26.00	-4.72	48238.832	2.0	52039.939	1.0
2630.2085	20.00	-2.37	44961.757	2.0	48762.700	1.0
2630.2085	20.00	-1.37	44961.757	2.0	48762.700	2.0
2630.2085	20.00	-.45	44961.757	2.0	48762.700	3.0
2630.2971	14.00	-2.75	60815.925	2.0	64616.740	2.0
2630.3490	22.00	-2.06	42092.520	4.0	45893.260	3.0
2630.5704	10.01	-1.17	303974.290	1.5	307774.710	1.5
2630.6466	11.00	-1.98	34586.960	2.5	38387.270	1.5
2630.6556	11.00	-1.83	34586.960	3.5	38387.257	2.5
2630.6556	11.00	-3.13	34586.960	2.5	38387.257	2.5
2630.7228	15.01	-.54	127889.300	3.0	131689.500	4.0
2630.7414	17.00	-1.30	91173.510	1.5	94973.683	.5
2630.7456	12.00	-1.50	57204.163	3.0	61004.330	2.0
2630.7456	12.00	-2.62	57204.163	3.0	61004.330	3.0
2630.8232	12.00	-2.57	57204.275	2.0	61004.330	2.0
2630.8232	12.00	-1.66	57204.275	2.0	61004.330	1.0
2630.8232	12.00	-3.57	57204.275	3.0	61004.330	2.0
2630.8232	12.00	-3.94	57204.275	2.0	61004.330	3.0
2630.8232	12.00	-2.78	57204.275	3.0	61004.330	3.0
2630.8232	12.00	-1.33	57204.275	4.0	61004.330	3.0
2630.8722	7.00	-1.80	111204.016	2.5	115004.000	2.5
2630.8722	7.00	-2.70	111204.016	2.5	115004.000	3.5
2630.9997	13.01	-.40	135012.100	1.0	138811.900	1.0
2630.9997	13.01	.08	135012.100	1.0	138811.900	2.0
2631.0384	17.00	-.47	91906.790	2.5	95706.534	1.5
2631.1029	17.00	-1.60	95400.731	2.5	99200.382	3.5
2631.1312	25.00	-4.55	27201.540	2.5	31001.150	2.5
2631.2891	22.00	-1.79	37824.748	4.0	41624.130	4.0
2631.3321	23.00	-4.19	40119.260	2.5	43918.580	2.5
2631.3875	7.00	-4.30	110459.760	1.5	114259.000	1.5
2631.4360	9.02	-3.40	440069.510	1.5	443868.680	2.5
2631.6216	14.00	-2.92	60496.358	2.0	64295.260	3.0
2631.6410	10.00	-2.22	167069.077	2.0	170867.951	1.0
2631.7789	10.00	-2.70	167052.645	1.0	170851.320	1.0
2631.7872	10.00	-2.26	167052.657	2.0	170851.320	1.0
2631.8128	22.00	-2.15	37538.804	2.0	41337.430	2.0
2631.8516	10.00	-1.78	167060.301	4.0	170858.871	3.0
2632.1142	10.00	-2.09	167846.689	2.0	171644.880	1.0
2632.1329	10.00	-3.32	167060.301	4.0	170858.465	4.0
2632.1371	10.00	-1.68	167060.307	5.0	170858.465	4.0
2632.1773	7.00	-2.62	112826.900	3.5	116625.000	2.5
2632.4129	24.00	-3.79	44068.720	3.0	47866.480	4.0
2632.4594	22.00	-2.00	37659.927	3.0	41457.620	3.0
2632.5557	8.00	-3.49	102968.261	1.0	106765.815	1.0
2632.5557	8.00	-3.86	102968.261	1.0	106765.815	2.0
2632.5557	8.00	-3.43	102968.261	2.0	106765.815	1.0
2632.5557	8.00	-2.91	102968.261	2.0	106765.815	2.0
2632.5557	8.00	-3.57	102968.261	2.0	106765.815	3.0
2632.5557	8.00	-2.65	102968.261	3.0	106765.815	2.0
2632.5557	8.00	-2.58	102968.261	3.0	106765.815	3.0
2632.5557	8.00	-2.07	102968.261	4.0	106765.815	3.0
2632.6209	8.00	-2.11	102968.355	2.0	106765.815	1.0
2632.6209	8.00	-2.90	102968.355	2.0	106765.815	2.0
2632.6209	8.00	-4.54	102968.355	2.0	106765.815	3.0
2632.6209	8.00	-2.01	102968.355	3.0	106765.815	2.0
2632.6209	8.00	-3.03	102968.355	3.0	106765.815	3.0
2632.6902	28.01	-4.49	132927.970	1.5	136725.330	.5
2632.6916	14.00	-1.45	57798.072	2.0	61595.430	1.0
2633.0092	27.00	-3.60	48837.720	.5	52634.620	.5
2633.0383	26.00	-4.04	46901.808	1.0	50698.666	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2633.1687	7.00	-3.84	110385.330	2.5	114182.000	2.5
2633.1687	7.00	-3.17	110385.330	3.5	114182.000	2.5
2633.4184	28.01	-4.45	118379.110	2.5	122175.420	2.5
2633.4600	6.00	-3.61	84036.290	1.0	87832.540	2.0
2633.4627	10.00	-3.32	167076.982	3.0	170873.228	3.0
2633.4690	10.00	-1.83	167076.991	4.0	170873.228	3.0
2633.4808	28.01	-4.86	96535.870	3.5	100332.090	4.5
2633.4947	14.00	-1.95	56690.903	2.0	60487.103	1.0
2633.5363	6.00	-2.73	84036.400	2.0	87832.540	2.0
2633.5585	14.00	-.97	56700.250	1.0	60496.358	2.0
2633.6217	10.00	-3.09	167846.430	3.0	171642.447	3.0
2633.6314	10.00	-1.76	167846.444	4.0	171642.447	3.0
2633.7195	10.00	-1.96	167076.982	3.0	170872.858	2.0
2633.7591	18.00	-4.83	121270.682	2.0	125066.501	2.0
2633.7723	9.02	-3.00	440069.510	1.5	443865.310	1.5
2633.7861	25.00	-4.84	58338.670	6.5	62134.450	5.5
2633.7930	10.00	-3.17	167846.677	3.0	171642.447	3.0
2633.8013	10.00	-4.37	167846.689	2.0	171642.447	3.0
2633.8228	10.00	-1.90	167846.430	3.0	171642.157	2.0
2633.8416	30.02	-1.01	257491.100	0.0	261286.800	1.0
2633.8908	10.00	-2.58	167052.645	1.0	170848.274	0.0
2633.9457	17.00	-2.58	95612.357	1.5	99407.907	.5
2633.9804	30.02	-.81	260988.400	4.0	264783.900	4.0
2634.0026	10.00	-3.05	167846.689	2.0	171642.157	2.0
2634.2788	6.00	-1.69	84851.530	1.0	88646.600	1.0
2634.4177	6.00	-.46	84032.150	1.0	87827.020	2.0
2634.4691	14.00	-3.20	58801.524	1.0	62596.320	2.0
2634.5128	26.00	-3.77	44166.240	3.0	47960.973	4.0
2634.6259	25.00	-4.77	27281.850	.5	31076.420	1.5
2635.0787	10.00	-2.00	167069.064	3.0	170862.982	2.0
2635.0843	10.00	-3.92	169814.630	2.0	173608.540	3.0
2635.0877	10.00	-3.15	167069.077	2.0	170862.982	2.0
2635.1051	6.00	-3.48	84036.290	1.0	87830.170	1.0
2635.1260	7.00	-4.32	110402.150	3.5	114196.000	2.5
2635.1329	10.00	-4.83	169814.630	2.0	173608.470	2.0
2635.1815	6.00	-2.24	84036.400	2.0	87830.170	1.0
2635.2093	6.00	-3.28	83919.650	3.0	87713.380	3.0
2635.2441	9.00	-1.75	126581.180	.5	130374.860	1.5
2635.2441	6.00	-3.39	84013.250	3.0	87806.930	3.0
2635.2857	6.00	-4.36	83919.760	2.0	87713.380	3.0
2635.3426	10.00	-4.05	167846.430	3.0	171639.968	2.0
2635.5143	10.00	-1.89	167846.677	3.0	171639.968	2.0
2635.5226	10.00	-3.23	167846.689	2.0	171639.968	2.0
2635.7164	13.01	.08	135018.900	2.0	138811.900	2.0
2635.7164	13.01	.83	135018.900	2.0	138811.900	3.0
2635.7164	13.01	-1.10	135018.900	2.0	138811.900	1.0
2636.1960	28.01	-2.41	112719.750	3.5	116512.060	3.5
2636.3351	7.00	-4.30	110498.390	3.5	114290.500	2.5
2636.7383	7.00	-4.48	110404.470	1.5	114196.000	2.5
2636.7731	7.00	-3.85	110404.520	2.5	114196.000	2.5
2636.8287	15.00	-3.78	75905.100	2.5	79696.500	1.5
2636.9331	10.01	-.25	303518.210	1.5	307309.460	.5
2637.1417	6.00	-3.06	83986.220	3.0	87777.170	3.0
2637.2252	28.01	-4.91	133169.920	3.5	136960.750	2.5
2637.2392	22.00	-2.51	37690.320	5.0	41481.130	5.0
2637.3018	6.00	-2.28	83986.450	4.0	87777.170	3.0
2637.3227	18.01	-2.66	188766.150	2.5	192556.840	2.5
2637.3296	6.00	-2.01	84016.250	4.0	87806.930	3.0
2637.5202	7.00	-4.59	110385.330	2.5	114175.736	3.5
2637.5202	7.00	-4.03	110385.330	3.5	114175.736	3.5
2637.6427	18.01	-.89	185624.730	3.5	189414.960	3.5
2637.6984	14.00	-2.67	60856.630	1.0	64646.780	2.0
2637.8445	27.00	-4.60	51160.030	2.5	54949.970	1.5
2637.8723	10.01	.26	303279.910	2.5	307069.810	1.5
2637.9461	10.00	-4.01	167069.077	2.0	170858.871	3.0
2637.9629	21.00	-2.91	33763.570	1.5	37553.340	2.5
2638.0116	13.01	-1.22	138811.900	2.0	142601.600	3.0
2638.0116	13.01	-2.12	138811.900	3.0	142601.600	3.0
2638.1167	20.00	-.87	42518.708	1.0	46308.257	2.0
2638.1787	26.00	-3.67	46744.975	3.0	50534.435	3.0
2638.1857	18.01	-2.69	196089.870	2.5	199879.320	3.5
2638.2197	10.00	-3.91	167069.064	3.0	170858.465	4.0
2638.2636	12.00	-2.93	57214.992	1.0	61004.330	2.0
2638.3527	25.00	-3.86	59116.600	2.5	62905.810	2.5
2638.3931	7.00	-2.51	111198.848	.5	114988.000	.5
2638.3931	7.00	-1.87	111198.848	.5	114988.000	1.5
2638.7079	7.00	-4.32	110501.800	3.5	114290.500	2.5
2638.7566	24.00	-4.39	44088.920	1.0	47877.550	1.0
2638.8054	6.00	-2.06	83919.650	3.0	87708.210	2.0
2638.8193	21.00	-4.52	37717.110	3.5	41505.650	2.5
2638.8263	7.00	-4.39	110404.470	1.5	114193.000	1.5
2638.8611	7.00	-2.86	110404.520	2.5	114193.000	1.5
2638.8820	6.00	-3.87	83919.760	2.0	87708.210	2.0
2639.2025	7.00	-4.42	110486.010	2.5	114274.000	2.5
2639.2562	12.00	.34	49346.729	1.0	53134.642	2.0
2639.4045	19.00	-1.99	30185.240	2.5	33972.940	1.5
2639.5119	12.00	-3.59	56968.218	3.0	60755.764	2.0
2639.5119	12.00	-2.26	56968.218	3.0	60755.764	3.0
2639.5119	12.00	-2.45	56968.218	3.0	60755.764	3.0
2639.5119	12.00	-.98	56968.218	3.0	60755.764	4.0
2639.5328	12.00	-2.21	56968.248	2.0	60755.764	2.0
2639.5328	12.00	-1.31	56968.248	2.0	60755.764	3.0
2639.5328	12.00	-2.21	56968.248	2.0	60755.764	3.0
2639.5488	12.00	-1.31	56968.271	1.0	60755.764	2.0
2639.5509	6.00	-2.16	84851.530	1.0	88639.020	1.0
2639.6060	17.00	-1.55	84485.309	1.5	88272.720	.5
2639.7530	19.00	-2.95	30185.740	1.5	33972.940	1.5
2639.7530	13.01	-.12	135012.100	1.0	138799.300	0.0
2639.7565	7.00	-4.78	112319.805	1.5	116107.000	1.5
2639.7669	6.00	-3.88	83926.200	3.0	87713.380	3.0
2639.8032	20.00	-.85	42514.845	0.0	46301.973	1.0
2639.8854	6.00	-2.01	83926.370	4.0	87713.380	3.0
2639.9830	27.00	-4.81	51160.030	2.5	54946.900	2.5
2639.9831	6.00	-2.21	83986.220	3.0	87773.090	2.0
2639.9949	14.00	-.89	56700.250	1.0	60487.103	1.0
2640.1713	19.00	-2.25	30185.740	1.5	33972.340	.5
2640.3107	24.00	-2.54	44875.190	2.0	48661.590	3.0
2640.4962	17.00	-4.52	94314.206	1.5	98100.340	.5
2640.6567	7.00	-2.43	111271.596	.5	115057.500	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2640.7320	22.00	-3.97	36000.144	4.0	39785.940	4.0
2640.7710	26.00	-.86	50628.000	3.0	54413.740	3.0
2641.0780	17.01	-3.93	146013.000	2.0	149798.300	2.0
2641.0990	6.00	-3.27	84851.530	1.0	88636.800	2.0
2641.1687	28.01	-4.97	128944.310	2.5	132729.480	2.5
2641.3285	20.00	-1.38	42518.708	1.0	46303.649	2.0
2641.3976	7.00	-2.29	111165.158	1.5	114950.000	.5
2641.3976	7.00	-2.54	111165.158	1.5	114950.000	1.5
2641.4618	24.00	-4.41	44092.800	0.0	47877.550	1.0
2641.5665	9.00	-1.27	129772.830	2.5	133557.430	2.5
2641.6852	22.00	-4.94	44233.650	3.0	48018.080	4.0
2641.6970	14.00	-.63	45276.188	1.0	49060.601	1.0
2641.9965	7.00	-2.50	111204.016	2.5	114988.000	1.5
2641.9965	7.00	-4.36	111204.016	2.5	114988.000	2.5
2641.9965	7.00	-1.42	111204.016	2.5	114988.000	3.5
2641.9993	28.01	-4.32	132982.510	1.5	136766.490	2.5
2642.0342	22.00	-2.15	44581.160	2.0	48365.090	3.0
2642.0887	14.00	-4.65	60010.458	1.0	63794.310	2.0
2642.4986	20.00	-1.45	42518.708	1.0	46301.973	1.0
2642.5126	8.00	-2.49	102968.261	1.0	106751.506	0.0
2642.5175	8.00	-2.54	102968.261	1.0	106751.499	1.0
2642.5175	8.00	-2.21	102968.261	2.0	106751.499	1.0
2642.5266	8.00	-3.49	102968.261	1.0	106751.486	2.0
2642.5266	8.00	-2.47	102968.261	2.0	106751.486	2.0
2642.5266	8.00	-2.05	102968.261	3.0	106751.486	2.0
2642.5378	8.00	-3.71	102968.261	2.0	106751.470	3.0
2642.5378	8.00	-2.65	102968.261	3.0	106751.470	3.0
2642.5378	8.00	-2.05	102968.261	4.0	106751.470	3.0
2642.5455	8.00	-3.64	102968.261	3.0	106751.459	4.0
2642.5455	8.00	-2.47	102968.261	4.0	106751.459	4.0
2642.5455	8.00	-1.59	102968.261	5.0	106751.459	4.0
2642.5832	8.00	-3.26	102968.355	2.0	106751.499	1.0
2642.5923	8.00	-3.52	102968.355	2.0	106751.486	2.0
2642.5923	8.00	-2.58	102968.355	3.0	106751.486	2.0
2642.6034	8.00	-4.76	102968.355	2.0	106751.470	3.0
2642.6034	8.00	-3.18	102968.355	3.0	106751.470	3.0
2642.6404	14.00	-2.95	60010.458	1.0	63793.520	1.0
2643.2127	10.00	-3.36	167069.077	2.0	170851.320	1.0
2643.3587	13.00	-1.17	42233.722	1.5	46015.756	2.5
2643.3755	6.00	-3.67	83926.200	3.0	87708.210	2.0
2643.4601	10.00	-2.72	167076.982	3.0	170858.871	3.0
2643.4663	10.00	-4.75	167076.991	4.0	170858.871	3.0
2643.5572	24.00	-4.95	50890.150	2.0	54671.900	1.0
2643.6160	20.00	-1.84	42526.591	2.0	46308.257	2.0
2643.7438	10.00	-4.17	167076.982	3.0	170858.465	4.0
2643.7501	10.00	-2.63	167076.991	4.0	170858.465	4.0
2644.2984	22.00	-4.08	37976.780	2.0	41757.470	3.0
2644.7350	18.00	-4.47	120600.944	2.0	124381.010	2.0
2644.8860	7.00	-2.62	110402.150	3.5	114182.000	2.5
2644.9665	18.00	-.60	118906.665	2.0	122686.400	2.0
2645.0820	26.02	-1.77	201892.440	5.0	205672.010	4.0
2645.1065	18.00	-1.57	118906.665	2.0	122686.200	1.0
2645.1534	20.00	-.23	42526.591	2.0	46306.059	3.0
2645.8367	7.00	-.17	103667.130	1.5	107445.622	1.5
2645.8731	18.01	-4.61	211663.500	3.5	215441.940	4.5
2645.9361	28.01	-2.08	119656.250	3.5	123434.600	4.5
2645.9452	28.00	-4.54	40484.282	2.0	44262.619	2.0
2646.1987	13.00	-1.01	42237.781	2.5	46015.756	3.5
2646.1987	13.00	-2.31	42237.781	2.5	46015.756	2.5
2646.2932	9.00	-.03	130141.650	1.5	133919.490	1.5
2646.3003	27.00	-3.13	48317.170	3.5	52095.000	3.5
2646.4628	26.00	-2.08	48289.852	1.0	52067.450	2.0
2646.5105	7.00	-4.77	110404.470	1.5	114182.000	2.5
2646.5455	7.00	-4.59	110404.520	2.5	114182.000	2.5
2646.7276	29.01	-3.70	117747.450	3.0	121524.670	3.0
2646.8412	20.00	-1.03	42526.591	2.0	46303.649	2.0
2646.9926	7.00	-2.75	111165.158	1.5	114942.000	2.5
2647.0079	9.00	-.74	126282.580	1.5	130059.400	.5
2647.0626	14.00	-2.59	57798.072	2.0	61574.814	3.0
2647.3536	14.00	-2.64	58893.400	3.0	62669.727	2.0
2647.4411	7.00	-1.28	111326.798	2.5	115103.000	2.5
2647.5758	18.01	-1.34	196103.310	4.5	199879.320	3.5
2647.6880	18.00	-1.54	119444.880	2.0	123220.730	2.0
2647.7377	14.00	-.35	58893.400	3.0	62669.179	4.0
2647.7482	14.00	-2.03	58893.400	3.0	62669.164	3.0
2647.8562	7.00	-4.37	110498.390	3.5	114274.000	2.5
2647.9783	18.00	-3.01	120600.944	2.0	124376.380	1.0
2648.0162	20.00	-2.15	42526.591	2.0	46301.973	1.0
2648.1094	17.00	-2.69	91538.500	1.5	95313.749	1.5
2648.4315	7.00	-2.76	110473.210	4.5	114248.000	3.5
2648.4742	7.00	-2.82	111213.271	1.5	114988.000	.5
2648.4742	7.00	-2.12	111213.271	1.5	114988.000	1.5
2648.4742	7.00	-2.06	111213.271	1.5	114988.000	2.5
2648.5156	7.00	-4.54	110385.330	3.5	114160.000	2.5
2648.6890	14.00	-1.26	58893.400	3.0	62667.823	3.0
2648.7121	6.00	-4.35	83986.220	3.0	87760.610	4.0
2648.8735	6.00	-2.79	83986.450	4.0	87760.610	4.0
2649.2764	7.00	-4.06	110402.150	3.5	114175.736	3.5
2649.4120	26.00	-3.89	47966.571	3.0	51739.964	2.0
2649.4422	7.00	-4.11	110501.650	4.5	114275.000	3.5
2649.4492	28.01	-4.02	91800.050	4.5	95573.390	3.5
2649.4759	7.00	-2.63	111326.798	2.5	115100.100	2.5
2649.5475	7.00	-4.94	110501.800	3.5	114275.000	3.5
2649.5755	12.00	-1.00	54250.086	1.0	58023.246	2.0
2649.6387	7.00	-4.75	110485.930	1.5	114259.000	1.5
2649.6949	7.00	-4.45	110486.010	2.5	114259.000	1.5
2649.8144	18.01	-3.99	194822.100	3.5	198594.920	3.5
2649.8987	17.01	-3.39	149798.300	2.0	153571.000	1.0
2650.0250	18.01	-4.44	211669.180	2.5	215441.700	3.5
2650.0813	7.00	-2.85	110459.760	1.5	114232.200	1.5
2650.2155	7.00	-4.64	110473.060	5.5	114245.309	4.5
2650.2499	7.00	-4.22	110501.800	3.5	114274.000	2.5
2650.3208	7.00	-4.14	110473.210	4.5	114245.309	4.5
2650.3693	20.01	-.91	56839.250	1.5	60611.280	1.5
2650.4916	7.00	-2.39	111285.644	1.5	115057.500	1.5
2650.5661	28.01	-1.98	100309.290	5.5	104081.040	4.5
2650.5942	9.00	-3.74	129772.830	2.5	133544.540	3.5
2650.9245	18.01	-.60	199959.620	2.5	203730.860	1.5
2650.9597	28.01	-3.61	132818.160	4.5	136589.350	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2650.9948	18.01	-3.87	196621.880	3.5	200393.020	4.5
2651.0159	28.01	-4.98	128958.370	3.5	132729.480	2.5
2651.4026	28.01	-4.10	133190.190	1.5	136960.750	2.5
2651.4236	6.00	-4.43	84036.400	2.0	87806.930	3.0
2651.4307	12.00	-1.48	54252.726	2.0	58023.246	2.0
2651.5010	9.00	-1.03	130149.070	.5	133919.490	1.5
2651.6628	6.00	-4.92	85399.810	2.0	89170.000	1.0
2651.7402	10.00	-4.99	169839.450	1.0	173609.530	1.0
2652.1833	7.00	-3.11	110521.050	1.5	114290.500	2.5
2652.4508	10.00	-4.25	169839.450	1.0	173608.520	2.0
2652.5429	7.00	-4.55	111853.061	1.5	115622.000	2.5
2652.6126	25.00	-4.69	31076.420	1.5	34845.260	.5
2652.6830	9.00	-.75	130141.650	1.5	133910.390	.5
2652.7112	15.00	-1.35	75353.400	1.5	79122.100	1.5
2652.7252	23.00	-3.98	33306.960	4.5	37075.640	4.5
2652.7675	17.00	-.25	98418.890	3.5	102187.510	2.5
2652.9153	17.00	-1.81	98419.100	2.5	102187.510	2.5
2653.0068	23.02	-2.10	158155.000	1.5	161923.280	2.5
2653.1000	2.00	-.34	191493.000	0.0	195262.176	0.0
2653.2941	14.00	-3.29	59034.988	3.0	62802.860	3.0
2653.3448	13.01	-.39	144939.100	1.0	148706.900	0.0
2653.5772	23.00	-2.93	38242.460	3.5	42009.930	2.5
2653.6000	3.00	-1.06	36623.000	0.0	40391.465	0.0
2653.6385	7.00	-.61	106477.800	.5	110245.183	.5
2653.7956	28.01	-3.73	95573.390	3.5	99340.550	3.5
2653.9281	14.00	-.18	45293.629	2.0	49060.601	1.0
2653.9787	13.01	-1.17	144964.700	4.0	148731.600	3.0
2653.9787	13.01	-2.76	144964.700	4.0	148731.600	3.0
2653.9787	13.01	-2.47	144964.700	3.0	148731.600	3.0
2654.2931	18.00	-.42	114641.040	2.0	118407.494	1.0
2654.3206	12.00	-1.36	54676.438	3.0	58442.853	2.0
2654.3276	12.00	-2.69	54676.438	3.0	58442.843	3.0
2654.4974	12.00	-1.72	54676.710	2.0	58442.874	1.0
2654.5122	12.00	-2.62	54676.710	2.0	58442.853	2.0
2654.5122	12.00	-2.97	54676.710	3.0	58442.853	2.0
2654.5193	12.00	-3.99	54676.710	2.0	58442.843	3.0
2654.5193	12.00	-2.83	54676.710	3.0	58442.843	3.0
2654.5193	12.00	-1.39	54676.710	4.0	58442.843	3.0
2654.6116	20.00	-2.52	44804.878	3.0	48570.880	2.0
2654.7159	26.00	-4.08	49627.861	4.0	53393.715	4.0
2654.7420	14.00	-2.71	59037.043	4.0	62802.860	3.0
2654.7892	18.01	-.87	186340.480	1.5	190106.230	1.5
2654.8456	18.01	-1.09	204929.400	.5	208695.070	1.5
2655.2687	23.00	-4.95	40153.510	2.5	43918.580	2.5
2655.2729	26.00	-4.68	48531.896	3.0	52296.960	2.0
2655.2899	28.01	-4.40	135338.010	5.5	139103.050	5.5
2655.3343	14.00	-3.75	60487.103	1.0	64252.080	2.0
2655.3611	7.00	-3.76	111853.061	1.5	115618.000	1.5
2655.3611	7.00	-4.42	111853.061	1.5	115618.000	2.5
2655.3675	6.00	-3.24	85399.810	2.0	89164.740	1.0
2655.4521	28.01	-2.98	134249.720	1.5	138014.530	2.5
2655.5791	26.02	-3.23	219566.080	3.0	223330.710	3.0
2655.5861	27.00	-4.78	50712.450	2.5	54477.070	3.5
2655.6560	14.00	-1.93	59109.959	3.0	62874.480	2.0
2656.0800	6.00	-2.76	84013.250	3.0	87777.170	3.0
2656.1858	6.00	-3.77	84013.400	2.0	87777.170	3.0
2656.1985	14.00	-1.74	57541.918	1.0	61305.670	1.0
2656.3143	14.00	-3.19	59110.892	2.0	62874.480	2.0
2656.3905	6.00	-1.52	84851.530	1.0	88615.010	1.0
2656.6432	14.00	-3.47	60010.458	1.0	63773.580	2.0
2656.6588	28.01	-3.58	67694.640	2.5	71457.740	3.5
2656.8494	29.01	-3.30	135135.600	1.0	138898.430	1.0
2657.1601	6.00	-4.10	85399.810	2.0	89162.200	2.0
2657.1792	26.00	-2.77	44458.960	0.0	48221.323	1.0
2657.4822	18.00	-2.84	120619.076	2.0	124381.010	2.0
2657.5839	26.02	-4.46	219566.080	3.0	223327.870	2.0
2657.6545	9.02	-1.98	464921.740	3.5	468683.430	2.5
2657.6616	28.01	-1.35	134252.850	3.5	138014.530	2.5
2657.7817	26.02	-3.28	219004.530	4.0	222766.040	3.0
2657.8312	26.02	-2.68	219004.530	4.0	222765.970	4.0
2657.9160	28.01	-3.62	94705.930	3.5	98467.250	3.5
2657.9160	9.00	-.46	130149.070	.5	133910.390	.5
2657.9372	25.00	-1.50	59470.140	3.5	63231.430	4.5
2658.0219	9.02	-.49	464921.740	3.5	468682.910	3.5
2658.1775	18.00	-2.73	119444.880	2.0	123205.830	3.0
2658.1987	6.00	-2.58	84016.250	4.0	87777.170	3.0
2658.3683	26.02	-2.73	219566.080	3.0	223326.760	4.0
2658.4248	7.00	-4.93	110498.400	2.5	114259.000	1.5
2658.5012	22.00	-4.66	37824.748	4.0	41585.240	3.0
2658.6370	18.01	-2.90	196119.020	3.5	199879.320	3.5
2658.7713	14.00	-2.04	60856.630	1.0	64616.740	2.0
2658.8717	26.00	-2.61	48289.852	1.0	52049.820	2.0
2658.9622	28.01	-1.64	134254.690	1.5	138014.530	2.5
2658.9622	6.00	-3.16	84013.250	3.0	87773.090	2.0
2659.0684	6.00	-2.99	84013.400	2.0	87773.090	2.0
2659.0796	26.00	-4.43	51365.300	3.0	55124.974	3.0
2659.3442	17.01	-3.45	147053.700	2.0	150813.000	1.0
2659.7121	28.01	-2.07	101740.270	3.5	105499.050	3.5
2659.7900	18.01	-1.10	192556.840	2.5	196315.510	2.5
2659.9244	28.01	-2.67	134256.050	2.5	138014.530	2.5
2660.4057	15.00	-2.05	76425.200	2.5	80183.000	2.5
2660.5445	18.00	-1.88	113426.050	2.0	117183.654	2.0
2660.6924	10.00	-2.03	162899.113	2.0	166656.508	1.0
2660.7314	22.00	-4.00	38159.710	3.0	41917.050	4.0
2660.7569	18.00	-3.97	120619.076	2.0	124376.380	1.0
2660.9177	17.00	-1.90	95597.593	.5	99354.670	1.5
2661.1635	22.00	-3.82	42311.310	3.0	46068.040	4.0
2661.2556	15.00	-4.79	78133.500	2.5	81890.100	2.5
2661.4681	7.00	-3.26	112868.700	3.5	116625.000	2.5
2661.4844	14.00	-2.43	60487.103	1.0	64243.380	2.0
2661.7586	6.00	-1.46	85399.810	2.0	89155.700	3.0
2661.7848	26.00	-1.22	33765.291	2.0	37521.144	2.0
2661.8323	18.00	-3.24	120600.944	2.0	124356.730	2.0
2661.8777	14.00	-2.62	60496.358	2.0	64252.080	2.0
2661.9216	23.00	-3.76	34486.800	2.5	38242.460	3.5
2662.0493	7.00	-3.89	110404.520	2.5	114160.000	1.5
2662.5313	19.02	-2.80	237912.200	1.5	241667.000	.5
2662.6306	21.00	-1.65	33798.680	2.5	37553.340	2.5
2662.7391	26.00	-4.13	48928.423	2.0	52682.930	2.0
2662.7512	28.01	-3.19	116468.400	1.5	120222.890	1.5
2662.9498	26.00	-4.84	48460.120	0.0	52214.330	1.0
2662.9944	12.00	-3.73	57204.163	3.0	60958.310	2.0
2663.0058	18.00	-1.27	116999.389	2.0	120753.520	3.0
2663.0278	7.00	-3.97	112826.900	2.5	116581.000	1.5
2663.0278	7.00	-3.14	112826.900	2.5	116581.000	2.5
2663.0739	12.00	-1.51	57204.275	3.0	60958.310	2.0
2663.0739	12.00	-2.88	57204.275	2.0	60958.310	2.0
2663.2406	29.01	-2.34	146496.200	3.0	150250.000	2.0
2663.2952	14.00	-.65	56733.380	0.0	60487.103	1.0
2663.3825	30.02	-2.13	260878.800	3.0	264632.400	3.0
2663.4960	23.00	-7.53	14548.830	2.5	18302.270	3.5
2663.5954	15.01	-3.30	127600.000	1.0	131353.300	2.0
2663.6522	6.00	-2.08	84851.530	1.0	88604.750	2.0
2663.7018	25.00	-4.68	27248.000	1.5	31001.150	2.5
2663.8225	28.01	-3.99	133809.760	3.5	137562.740	3.5
2663.8438	7.00	-3.03	110521.050	1.5	114274.000	2.5
2663.9290	27.00	-4.33	48317.170	3.5	52070.000	2.5
2663.9360	20.01	.04	56858.460	2.5	60611.280	1.5
2663.9858	28.01	-2.60	113321.950	4.5	117074.700	3.5
2664.1774	26.02	-4.73	201919.530	4.0	205672.010	4.0
2664.1916	28.01	-2.61	134262.070	3.5	138014.530	2.5
2664.2626	10.01	-4.97	302935.310	4.5	306687.670	3.5
2664.2847	28.00	-1.72	45418.858	2.0	49171.187	1.0
2664.3905	25.00	-2.38	41403.930	2.5	45156.110	2.5
2664.4430	14.00	-.50	45276.188	1.0	49028.294	0.0
2665.0645	26.00	-2.35	44285.436	2.0	48036.667	2.0
2665.1206	7.00	-1.88	111198.848	.5	114950.000	.5
2665.1206	7.00	-2.31	111198.848	.5	114950.000	1.5
2665.2144	14.00	-2.69	60042.500	0.0	63793.520	1.0
2665.2343	22.00	-2.66	37617.868	4.0	41368.860	4.0
2665.2784	25.01	-3.93	82144.340	3.0	85895.270	2.0
2665.3282	18.01	-4.21	210438.500	4.5	214189.360	4.5
2665.6977	28.01	-4.67	129419.580	4.5	133169.920	3.5
2665.7545	9.00	-2.11	130221.120	1.5	133971.380	1.5
2665.7759	28.01	-3.84	132982.510	1.5	136732.740	1.5
2665.8775	26.00	-2.95	48289.852	1.0	52039.939	1.0
2665.9230	26.00	-1.09	33412.706	3.0	37162.729	3.0
2666.1121	12.00	-2.23	56186.873	0.0	59936.630	1.0
2666.2166	7.00	-4.42	110498.390	3.5	114248.000	3.5
2666.2664	6.00	-1.62	85399.810	2.0	89149.350	1.0
2666.3233	28.01	-3.06	115565.980	2.5	119315.440	2.5
2666.3311	17.00	-4.47	91564.300	.5	95313.749	1.5
2666.3802	27.00	-1.87	52796.130	2.5	56545.510	2.5
2666.6860	28.01	-2.13	100332.090	4.5	104081.040	4.5
2666.7074	18.01	-3.06	199981.940	1.5	203730.860	1.5
2666.9222	26.00	-4.14	49604.402	5.0	53353.020	6.0
2667.1000	2.00	-.81	191445.000	0.0	195194.391	0.0
2667.2196	18.01	-2.35	192556.840	2.5	196305.040	3.5
2667.2936	18.00	-4.40	120600.944	2.0	124349.040	3.0
2667.2943	7.00	-2.63	111060.905	.5	114809.000	.5
2667.4687	23.00	-2.62	38003.930	1.5	41751.780	.5
2667.4687	23.00	-2.56	38003.930	1.5	41751.780	1.5
2667.8175	6.00	-4.08	84013.250	3.0	87760.610	4.0
2667.9243	28.01	-4.18	129988.050	2.5	133735.260	2.5
2667.9314	15.00	-3.00	77655.200	3.5	81402.400	2.5
2667.9955	7.00	-2.81	112877.890	3.5	116625.000	2.5
2668.0581	14.00	-1.77	60496.358	2.0	64243.380	2.0
2668.1237	28.01	-4.25	129988.050	2.5	133734.980	3.5
2668.1593	27.00	-2.93	49025.420	1.5	52772.300	2.5
2668.4776	7.00	-2.42	111143.567	.5	114890.000	1.5
2668.5795	18.01	-4.63	210438.500	4.5	214184.790	3.5
2668.5816	22.00	-4.29	37622.573	3.0	41368.860	4.0
2668.6508	7.00	-4.72	110486.010	2.5	114232.200	1.5
2668.6664	22.00	-3.95	34078.580	3.0	37824.748	4.0
2668.7975	7.00	-2.26	111204.016	2.5	114950.000	1.5
2668.9998	26.02	-2.97	219004.530	4.0	222750.230	3.0
2669.0354	7.00	-3.11	110544.850	2.5	114290.500	2.5
2669.0568	28.01	-4.41	116087.380	4.5	119833.000	5.5
2669.1851	25.00	-4.55	56356.210	3.5	60101.650	2.5
2669.2107	7.00	-2.62	111271.596	.5	115017.000	.5
2669.2107	7.00	-3.21	111271.596	.5	115017.000	1.5
2669.2207	28.01	-3.33	93528.440	3.5	97273.830	2.5
2669.3562	14.00	-3.86	58788.880	4.0	62534.080	4.0
2669.4502	14.00	-3.60	59191.072	2.0	62936.140	3.0
2669.6341	26.02	-2.46	218860.430	2.0	222605.240	3.0
2669.6769	6.00	-1.74	84015.860	5.0	87760.610	4.0
2669.8123	9.00	-.75	130221.120	1.5	133965.680	2.5
2669.8124	26.01	-3.05	83726.240	3.5	87470.800	4.5
2669.8551	7.00	-2.75	112880.500	2.5	116625.000	1.5
2669.8551	7.00	-3.09	112880.500	2.5	116625.000	2.5
2669.9172	26.00	-3.52	47606.092	5.0	51350.505	4.0
2669.9550	6.00	-3.43	84016.250	4.0	87760.610	4.0
2670.0691	25.01	-3.90	82151.070	2.0	85895.270	2.0
2670.0905	9.00	.41	125637.690	2.5	129381.860	2.5
2670.1119	23.00	-9.43	14514.750	1.5	18258.890	2.5
2670.1447	26.00	-2.76	47136.058	2.0	50880.152	1.0
2670.2552	7.00	-2.49	111853.061	1.5	115597.000	1.5
2670.2616	9.02	-.62	464939.500	2.5	468683.430	2.5
2670.5141	14.00	-3.17	58801.524	1.0	62545.100	1.0
2670.6325	9.02	-1.97	464939.500	2.5	468682.910	3.5
2670.6982	12.00	-2.69	57214.992	1.0	60958.310	2.0
2670.8345	7.00	-4.05	111260.873	3.5	115004.000	2.5
2670.8345	7.00	-2.03	111260.873	3.5	115004.000	3.5
2671.0321	6.00	-2.90	85399.810	2.0	89142.660	2.0
2671.0535	28.01	-3.75	132846.530	3.5	136589.350	3.5
2671.1392	15.01	-1.71	127889.300	3.0	131632.000	3.0
2671.1920	20.00	-2.39	36731.615	1.0	40474.241	1.0
2671.4154	17.00	-3.31	95612.357	1.5	99354.670	1.5
2671.4197	7.00	-.60	106477.800	.5	110220.107	1.5
2671.7031	26.02	-3.29	219092.860	5.0	222834.770	6.0
2672.1959	14.01	-1.30	122655.510	3.5	126396.730	3.5
2672.1959	14.01	.24	122655.510	3.5	126396.730	4.5
2672.2816	14.01	.13	122655.630	2.5	126396.730	3.5
2672.5173	6.00	-3.94	84036.400	2.0	87777.170	3.0
2672.5673	27.00	-3.66	41041.430	3.5	44782.130	4.5
2672.8674	23.00	-4.21	40325.770	2.5	44066.050	3.5
2672.8817	26.02	-3.26	219004.530	4.0	222744.790	5.0
2672.9232	28.00	-1.37	45418.858	2.0	49159.060	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2672.9596	17.00	-.83	91660.580	2.5	95400.731	2.5
2673.0675	15.00	-2.74	76021.600	1.5	79761.600	2.5
2673.0818	22.00	-4.57	42092.520	4.0	45832.500	5.0
2673.3392	26.02	-4.34	219092.860	5.0	222832.480	5.0
2673.3892	25.01	-4.36	82155.720	1.0	85895.270	2.0
2674.0757	9.00	-1.70	129484.660	1.5	133223.250	.5
2674.1401	30.02	-3.28	258171.200	5.0	261909.700	4.0
2674.5092	7.00	-1.80	111204.016	2.5	114942.000	2.5
2674.5336	7.00	-3.03	110521.050	1.5	114259.000	1.5
2674.5614	18.00	-1.52	121011.979	1.0	124749.890	0.0
2674.6552	18.01	-5.00	210447.010	3.5	214184.790	3.5
2674.7124	17.00	-.24	91089.450	3.5	94827.150	2.5
2674.7453	18.00	-4.01	120619.076	2.0	124356.730	2.0
2675.1633	28.01	-4.35	130236.260	2.5	133973.330	2.5
2675.2278	10.01	-.02	304440.240	.5	308177.220	1.5
2675.2349	22.00	-3.78	40844.190	3.0	44581.160	2.0
2675.2349	22.00	-3.79	40844.190	1.0	44581.160	2.0
2675.3566	6.00	-4.06	84036.290	1.0	87773.090	2.0
2675.4074	7.00	-2.18	111213.271	1.5	114950.000	.5
2675.4074	7.00	-1.61	111213.271	1.5	114950.000	1.5
2675.4354	6.00	-4.99	84036.400	2.0	87773.090	2.0
2675.5428	27.00	-4.49	51160.030	2.5	54896.570	3.5
2675.7024	12.00	-1.57	54706.536	1.0	58442.853	2.0
2675.9438	28.01	-4.38	130331.780	1.5	134067.760	1.5
2676.1945	27.00	-4.07	48334.370	1.5	52070.000	2.5
2676.5815	28.01	-3.29	116468.400	1.5	120203.490	2.5
2676.5972	26.00	-4.88	49434.142	6.0	53169.210	6.0
2676.8409	14.00	-2.61	59191.072	2.0	62925.800	1.0
2676.9040	6.00	-1.99	84103.100	2.0	87837.740	1.0
2676.9040	6.00	-1.06	84103.100	2.0	87837.740	2.0
2676.9326	13.01	-1.04	144939.100	1.0	148673.700	1.0
2677.4345	13.01	-.94	146414.500	3.0	150148.400	2.0
2677.4345	13.01	-2.37	146414.500	3.0	150148.400	3.0
2677.4345	13.01	-3.80	146414.500	3.0	150148.400	4.0
2677.4345	13.01	-1.54	146414.500	4.0	150148.400	3.0
2677.4345	13.01	-.46	146414.500	4.0	150148.400	3.0
2677.4345	13.01	-2.24	146414.500	4.0	150148.400	4.0
2677.4345	13.01	-2.38	146414.500	4.0	150148.400	4.0
2677.4345	13.01	-.71	146414.500	5.0	150148.400	4.0
2677.4704	18.01	.01	201345.220	1.5	205079.070	2.5
2677.6726	26.00	-4.41	45509.112	1.0	49242.680	2.0
2677.7070	9.00	.29	126282.580	1.5	130016.100	2.5
2677.7213	24.00	-4.24	44080.900	2.0	47814.400	3.0
2678.1037	26.00	-3.30	44022.518	4.0	47755.485	3.0
2678.1245	28.00	-2.28	42790.027	2.0	46522.965	2.0
2678.1690	17.00	-4.86	90749.360	2.5	94482.236	2.5
2678.2349	10.00	-3.59	167591.233	2.0	171324.017	1.0
2678.4244	28.01	-4.06	94067.140	1.5	97799.660	1.5
2679.1494	23.00	-3.16	34374.810	3.5	38106.320	2.5
2679.2283	30.02	-2.89	258178.300	4.0	261909.700	4.0
2679.2600	7.00	-2.14	111285.644	1.5	115017.000	.5
2679.2600	7.00	-3.11	111285.644	1.5	115017.000	1.5
2679.3217	28.01	-3.77	133001.470	.5	136732.740	1.5
2679.3289	22.00	-4.72	44375.570	5.0	48106.830	6.0
2679.6449	23.00	-7.88	14949.300	4.5	18680.120	5.5
2679.6736	28.01	-3.47	116468.400	1.5	120199.180	1.5
2679.6778	17.00	-4.34	94314.206	1.5	98044.980	1.5
2679.7296	7.00	-3.57	111326.798	2.5	115057.500	1.5
2679.7885	14.00	-2.85	59190.460	1.0	62921.080	2.0
2679.8029	17.01	-4.70	158177.100	1.0	161907.700	2.0
2680.0758	14.00	-3.17	60621.640	0.0	64351.860	1.0
2680.1261	7.00	-3.10	110544.850	2.5	114275.000	3.5
2680.1836	6.00	-.84	84032.150	1.0	87762.220	2.0
2680.2282	14.00	-2.02	59191.072	2.0	62921.080	2.0
2680.2598	18.00	-3.82	120619.076	2.0	124349.040	3.0
2680.3202	27.00	-1.91	46375.170	1.5	50105.050	1.5
2680.3389	26.00	-2.57	48289.852	1.0	52019.706	1.0
2680.3777	26.02	-3.44	219004.530	4.0	222734.330	4.0
2680.3849	9.00	-.39	125877.280	1.5	129607.070	.5
2680.3992	24.00	-2.30	42238.040	2.0	45967.810	2.0
2680.8448	7.00	-3.13	110544.850	2.5	114274.000	2.5
2680.9743	28.01	-4.50	130174.030	1.5	133903.000	1.5
2681.3388	18.00	-1.35	118906.665	2.0	122635.128	2.0
2681.5279	13.01	-.79	146185.000	2.0	149913.200	2.0
2681.5279	13.01	-.06	146185.000	1.0	149913.200	2.0
2681.5279	13.01	-.25	146185.000	2.0	149913.200	3.0
2681.5279	13.01	-2.33	146185.000	3.0	149913.200	2.0
2681.5279	13.01	-1.16	146185.000	3.0	149913.200	3.0
2681.5279	13.01	.27	146185.000	3.0	149913.200	4.0
2681.8373	24.00	-3.07	51246.870	1.0	54974.640	2.0
2682.0172	18.01	-2.09	201351.550	2.5	205079.070	2.5
2682.2762	6.00	-3.27	83986.220	3.0	87713.380	3.0
2682.2999	7.00	-4.64	111260.873	3.5	114988.000	2.5
2682.2999	7.00	-1.41	111260.873	3.5	114988.000	3.5
2682.4418	6.00	-2.56	83986.450	4.0	87713.380	3.0
2682.5641	28.01	-2.07	114836.630	3.5	118563.390	3.5
2683.1977	18.01	-.89	186470.280	1.5	190196.160	.5
2683.2236	26.00	-4.83	43163.282	4.0	46889.126	4.0
2683.5391	10.00	-4.41	168355.510	1.0	172080.916	1.0
2683.5888	18.00	-.56	113426.050	2.0	117151.387	1.0
2683.6133	17.00	-4.17	97807.707	2.5	101533.010	2.5
2683.6421	17.00	-4.23	97807.707	2.5	101532.970	1.5
2683.7019	19.00	-2.26	30185.240	2.5	33910.420	2.5
2683.7019	19.00	-.96	30185.240	2.5	33910.420	3.5
2683.8820	9.02	-2.50	440202.480	2.5	443927.410	3.5
2683.9454	7.00	-1.62	111165.158	1.5	114890.000	1.5
2684.0622	19.00	-1.11	30185.740	1.5	33910.420	2.5
2684.5602	28.00	-2.82	47030.148	3.0	50754.137	2.0
2684.6099	6.00	-1.40	84103.100	2.0	87827.020	2.0
2684.6532	28.01	-3.90	133001.470	.5	136725.330	.5
2684.6676	6.00	-.32	84103.100	2.0	87826.940	3.0
2684.9704	28.00	-3.31	50851.220	1.0	54574.640	1.0
2685.0714	27.00	-3.06	45105.590	3.5	48828.870	2.5
2685.1363	28.01	-4.04	115592.250	1.5	119315.440	2.5
2685.2228	7.00	-4.43	110485.930	1.5	114209.000	.5
2685.2329	14.00	-2.20	57583.657	4.0	61306.713	4.0
2685.3382	21.00	-1.77	33763.570	1.5	37486.480	1.5
2685.6196	25.00	-4.85	59360.720	2.5	63083.240	1.5
2685.7884	10.00	-4.49	168358.630	1.0	172080.916	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2685.8671	26.00	-4.73	46889.126	4.0	50611.303	3.0
2686.0020	6.00	-2.77	83986.220	3.0	87708.210	2.0
2686.0670	6.00	-3.38	84013.400	2.0	87735.300	1.0
2686.0814	10.00	-.62	158795.992	1.0	162517.872	1.0
2686.1464	9.00	-4.01	129937.330	1.5	133659.120	.5
2686.2474	6.00	-1.09	84116.090	1.0	87837.740	1.0
2686.2474	6.00	-.34	84116.090	1.0	87837.740	2.0
2686.3340	28.01	-4.19	104646.520	3.5	108368.050	2.5
2686.3845	27.00	-3.74	44480.140	2.5	48201.600	3.5
2686.4329	14.00	-3.46	57583.657	4.0	61305.050	3.0
2686.5217	28.01	-3.99	130331.780	1.5	134053.050	2.5
2686.5362	20.00	-1.11	44955.670	0.0	48676.920	1.0
2686.5650	14.00	-1.14	60300.860	2.0	64022.070	3.0
2686.6083	28.01	-3.80	116468.400	1.5	120189.550	.5
2686.6733	18.01	-5.00	194883.000	3.5	198604.060	4.5
2686.9333	30.02	-.64	257566.100	1.0	261286.800	1.0
2686.9766	6.00	-1.69	83497.620	2.0	87218.260	2.0
2687.1210	14.00	-2.80	60300.860	2.0	64021.300	2.0
2687.6260	17.00	-2.55	91680.990	1.5	95400.731	2.5
2687.6383	14.00	-2.77	57583.657	4.0	61303.381	3.0
2687.7380	18.00	-4.90	121068.804	1.0	124788.390	1.0
2687.7712	28.01	-1.28	134294.990	2.5	138014.530	2.5
2687.7800	3.00	.39	27206.000	0.0	30926.543	0.0
2687.9700	20.00	-1.24	44957.655	1.0	48676.920	1.0
2687.9700	20.00	-.93	44957.655	1.0	48676.920	2.0
2688.0596	14.00	-2.30	59506.359	2.0	63225.500	2.0
2688.1000	2.00	-.52	191217.000	0.0	194937.100	0.0
2688.3711	27.00	-4.66	42988.120	3.5	46706.830	3.5
2688.3784	18.01	-4.64	215441.700	3.5	219160.400	2.5
2688.4434	28.01	-4.19	130184.390	2.5	133903.000	1.5
2688.4940	14.00	-3.23	60300.860	2.0	64019.400	3.0
2688.5808	27.00	-3.00	48546.070	1.5	52264.490	1.5
2688.6271	7.00	-1.40	111285.644	1.5	115004.000	2.5
2688.6661	12.00	-1.82	57017.078	0.0	60735.380	1.0
2688.6965	27.00	-3.22	48443.760	2.5	52162.020	3.5
2688.7862	14.00	-2.76	58801.524	1.0	62519.660	2.0
2689.1333	12.00	-1.95	57017.724	1.0	60735.380	1.0
2689.1333	12.00	-1.64	57017.724	1.0	60735.380	2.0
2689.3872	26.00	-3.58	44243.668	5.0	47960.973	4.0
2689.3981	28.01	-4.53	130205.620	5.5	133922.910	4.5
2689.7136	7.00	-.78	106477.800	.5	110194.654	1.5
2689.7309	26.00	-4.71	48350.620	1.0	52067.450	2.0
2689.7526	6.00	-3.85	84103.100	2.0	87819.900	3.0
2689.8105	23.02	-4.78	160681.480	3.5	164398.200	4.5
2689.9025	17.00	-3.19	97807.707	2.5	101524.300	2.5
2689.9552	6.00	-.77	84121.220	0.0	87837.740	1.0
2689.9893	17.00	-1.42	97807.707	2.5	101524.180	3.5
2690.0276	9.00	-2.43	130374.860	1.5	134091.280	1.5
2690.0392	7.00	-1.54	111271.596	.5	114988.000	.5
2690.0392	7.00	-1.48	111271.596	.5	114988.000	1.5
2690.0486	7.00	-2.26	111905.609	2.5	115622.000	2.5
2690.0639	28.01	-4.66	113177.610	3.5	116893.980	2.5
2690.0747	12.00	-3.12	57019.025	2.0	60735.380	1.0
2690.0747	12.00	-2.12	57019.025	2.0	60735.380	2.0
2690.0747	12.00	-1.20	57019.025	2.0	60735.380	3.0
2690.3050	17.00	-.70	97149.323	.5	100865.360	1.5
2690.4142	10.00	-3.64	168355.510	1.0	172071.396	2.0
2690.8386	19.02	-2.11	241667.000	.5	245382.300	.5
2690.9378	20.00	-2.41	44961.757	2.0	48676.920	1.0
2690.9378	20.00	-1.40	44961.757	2.0	48676.920	2.0
2690.9378	20.00	-.48	44961.757	2.0	48676.920	3.0
2690.9545	17.00	-2.47	90948.530	1.5	94663.670	1.5
2690.9806	18.00	.30	113468.550	2.0	117183.654	2.0
2690.9958	26.00	-4.53	48304.623	2.0	52019.706	1.0
2691.1602	28.00	-.93	50039.180	2.0	53754.036	2.0
2691.5152	26.00	-4.38	48122.913	3.0	51837.279	3.0
2691.7080	6.00	-3.12	83919.650	3.0	87633.750	2.0
2691.7421	17.00	-2.60	97807.707	2.5	101521.760	3.5
2691.7878	6.00	-3.19	83919.760	2.0	87633.750	2.0
2691.8051	18.00	-2.23	121068.804	1.0	124782.770	1.0
2691.9544	6.00	-2.90	84935.340	1.0	88649.100	0.0
2691.9979	24.00	-1.95	42254.110	3.0	45967.810	2.0
2691.9994	14.00	-2.23	57798.072	2.0	61511.770	1.0
2692.6352	8.00	-2.73	103869.968	2.0	107582.789	1.0
2692.6352	8.00	-1.55	103869.968	2.0	107582.789	2.0
2692.6352	8.00	-.80	103869.968	2.0	107582.789	3.0
2692.6504	15.00	-2.35	75689.200	1.5	79402.000	2.5
2692.6787	8.00	-1.55	103870.028	1.0	107582.789	1.0
2692.6787	8.00	-1.07	103870.028	1.0	107582.789	2.0
2692.7593	23.00	-3.84	34529.810	4.5	38242.460	3.5
2692.8412	8.00	-1.43	103870.252	0.0	107582.789	1.0
2692.9471	7.00	-4.57	111905.609	2.5	115618.000	1.5
2692.9471	7.00	-2.12	111905.609	2.5	115618.000	2.5
2693.0131	7.00	-3.21	112868.700	3.5	116581.000	2.5
2693.1147	22.00	-4.53	38159.710	3.0	41871.870	2.0
2693.3338	26.00	-3.49	40052.080	2.0	43763.938	1.0
2693.7533	24.00	-2.22	45113.220	3.0	48824.500	4.0
2693.7678	6.00	-2.23	84935.340	1.0	88646.600	1.0
2693.8476	7.00	-4.86	110521.050	1.5	114232.200	1.5
2693.9566	18.01	-.56	201345.220	1.5	205056.220	1.5
2694.0073	6.00	-3.06	84116.090	1.0	87827.020	2.0
2694.1816	9.00	-2.92	130221.120	1.5	133931.810	2.5
2694.2034	26.00	-.98	50901.060	2.0	54611.720	2.0
2694.5577	7.00	.01	103735.450	2.5	107445.624	1.5
2694.6391	23.00	-8.30	14548.830	2.5	18258.890	2.5
2694.7625	9.00	-1.97	130374.860	1.5	134084.750	2.5
2695.0255	26.00	-5.00	44511.795	2.0	48221.323	1.0
2695.3939	26.00	-3.94	47271.999	1.0	50981.020	0.0
2695.6766	26.00	-2.78	47171.520	0.0	50880.152	1.0
2695.8162	23.02	-4.69	156671.200	2.5	160379.640	2.5
2695.8933	26.00	-4.92	49460.876	5.0	53169.210	6.0
2696.4634	6.00	-2.10	83926.200	3.0	87633.750	2.0
2696.5215	28.01	-3.19	118379.110	2.5	122086.580	3.5
2696.5652	28.01	-4.70	130215.500	4.5	133922.910	4.5
2696.7165	26.00	-4.07	47960.973	4.0	51668.175	4.0
2696.7688	26.02	-2.40	202030.380	3.0	205737.510	2.0
2696.8125	6.00	-1.85	84851.530	1.0	88558.600	1.0
2696.8489	18.01	-4.45	210477.770	3.5	214184.790	3.5
2697.0307	27.00	-3.86	48334.370	1.5	52041.140	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2697.0671	21.00	-.98	33846.620	3.5	37553.340	2.5
2697.1108	28.01	-4.93	118563.390	3.5	122270.050	3.5
2697.3145	27.00	-3.60	48753.720	1.5	52460.100	2.5
2697.6981	17.00	-3.08	97184.277	3.5	100890.130	2.5
2697.7585	28.01	-3.51	130197.230	1.5	133903.000	1.5
2697.8983	17.00	-2.07	97184.277	3.5	100889.855	3.5
2697.9063	17.00	-1.35	91906.790	2.5	95612.357	1.5
2698.1371	28.01	-2.63	100592.980	3.5	104298.230	4.5
2698.2522	14.00	-2.84	60381.278	1.0	64086.370	1.0
2698.3440	18.00	-2.81	122086.974	2.0	125791.940	2.0
2698.5596	18.01	-1.48	201351.550	2.5	205056.220	1.5
2698.7562	22.00	-3.82	41780.950	4.0	45485.350	5.0
2698.9020	29.01	-3.26	116388.000	2.0	120092.200	2.0
2699.2809	6.00	-2.40	84935.340	1.0	88639.020	1.0
2699.6009	17.00	-1.35	84485.309	1.5	88188.550	1.5
2699.6672	7.00	-2.83	110544.850	2.5	114248.000	3.5
2699.6964	7.00	-4.01	112877.890	3.5	116581.000	2.5
2699.7073	18.00	-.90	118906.665	2.0	122609.760	1.0
2699.7401	26.00	-3.57	54271.110	1.0	57974.160	2.0
2699.8189	26.00	-3.50	47177.210	1.0	50880.152	1.0
2699.8349	14.00	-1.62	58893.400	3.0	62596.320	2.0
2699.8742	18.00	-1.52	121068.804	1.0	124771.670	2.0
2700.0580	26.00	-4.69	45595.046	0.0	49297.660	1.0
2700.1222	7.00	-3.85	110473.210	4.5	114175.736	3.5
2700.1499	22.00	-4.49	18037.225	4.0	21739.713	5.0
2700.2425	26.00	-2.36	46720.824	4.0	50423.185	4.0
2700.2461	7.00	-3.03	111285.644	1.5	114988.000	.5
2700.2461	7.00	-2.13	111285.644	1.5	114988.000	1.5
2700.2461	7.00	-1.50	111285.644	1.5	114988.000	2.5
2700.3775	10.00	-4.92	168378.740	2.0	172080.916	1.0
2700.5131	26.02	-2.70	202030.380	3.0	205732.370	3.0
2700.5131	28.01	-3.84	99040.750	1.5	102742.740	1.5
2700.5497	18.01	-1.87	205221.470	1.5	208923.410	2.5
2700.6758	26.00	-3.10	54112.203	2.0	57813.970	3.0
2700.8999	6.00	-3.18	84935.340	1.0	88636.800	2.0
2700.9634	17.00	-3.03	95706.534	1.5	99407.907	.5
2701.1333	28.01	-4.18	118379.110	2.5	122080.250	2.5
2701.1479	28.01	-3.94	132818.160	4.5	136519.280	4.5
2701.6005	7.00	-2.67	112880.500	2.5	116581.000	1.5
2701.6005	7.00	-4.67	112880.500	2.5	116581.000	2.5
2701.6589	22.01	-4.87	59467.810	3.5	63168.230	2.5
2701.7173	10.01	-4.52	277325.600	1.5	281025.940	2.5
2701.8706	6.00	-3.96	84013.250	3.0	87713.380	3.0
2701.8780	17.00	-.95	91127.030	2.5	94827.150	2.5
2702.0569	14.00	-3.62	60962.105	2.0	64661.980	3.0
2702.1627	18.01	-2.38	205221.470	1.5	208921.200	1.5
2702.2161	17.00	-4.50	97842.783	1.5	101542.440	1.5
2702.5499	26.00	-4.10	48350.620	1.0	52049.820	2.0
2702.6888	6.00	-4.19	84036.290	1.0	87735.300	1.0
2702.7691	6.00	-4.53	84036.400	2.0	87735.300	1.0
2702.7764	27.00	-4.65	48334.370	1.5	52033.260	1.5
2702.8495	25.00	-4.63	59384.450	1.5	63083.240	1.5
2702.9445	19.00	-2.68	30274.280	.5	33972.940	1.5
2703.0614	15.00	-3.88	72493.800	1.5	76192.300	1.5
2703.1565	9.00	-.90	130221.120	1.5	133919.490	1.5
2703.2953	26.00	-3.80	48516.150	1.0	52214.330	1.0
2703.3392	28.01	-3.40	116468.400	1.5	120166.520	1.5
2703.3830	19.00	-2.98	30274.280	.5	33972.340	.5
2703.7120	7.00	-4.83	110498.390	3.5	114196.000	2.5
2703.7705	6.00	-1.94	84851.530	1.0	88549.060	1.0
2704.0265	24.00	-4.75	44088.920	1.0	47786.100	2.0
2704.0631	6.00	-2.76	84016.250	4.0	87713.380	3.0
2704.2854	18.00	-2.25	122086.974	2.0	125783.800	1.0
2704.2898	26.02	-4.52	198333.560	2.0	202030.380	3.0
2704.4142	10.01	-.47	304440.240	.5	308136.890	1.5
2704.4508	15.00	-2.02	75705.400	3.5	79402.000	2.5
2704.7141	6.00	-3.53	84950.360	2.0	88646.600	1.0
2705.1460	28.01	-3.66	129474.270	3.5	133169.920	3.5
2705.2111	26.00	-4.45	47008.351	5.0	50703.912	5.0
2705.2558	15.00	-2.95	78069.000	1.5	81764.500	1.5
2705.2682	18.00	-1.06	119566.110	3.0	123261.593	2.0
2705.4534	18.01	.09	186815.960	3.5	190511.190	2.5
2705.4754	13.01	-.54	146414.500	4.0	150109.700	3.0
2705.4754	13.01	-1.49	146414.500	4.0	150109.700	3.0
2705.4754	13.01	-2.25	146414.500	3.0	150109.700	3.0
2705.5903	28.00	-1.97	47139.392	2.0	50834.435	2.0
2705.6511	6.00	-3.59	84013.250	3.0	87708.210	2.0
2705.7609	6.00	-3.73	84013.400	2.0	87708.210	2.0
2705.8964	18.00	-2.43	118906.665	2.0	122601.290	1.0
2705.9441	26.02	-4.81	219004.530	4.0	222699.090	5.0
2706.2070	18.00	-2.11	119023.699	4.0	122717.900	3.0
2706.2070	18.00	-.58	119023.699	4.0	122717.900	4.0
2706.3851	17.00	-1.73	96494.722	4.5	100188.680	4.5
2706.3924	17.00	.01	96494.722	4.5	100188.670	5.5
2706.5227	20.01	-.22	56839.250	1.5	60533.020	.5
2706.6547	19.00	.30	21026.580	.5	24720.170	1.5
2706.6547	14.00	-3.79	60704.530	3.0	64398.120	2.0
2706.7939	29.01	-2.31	146556.600	3.0	150250.000	2.0
2706.8525	26.02	-3.18	198337.060	3.0	202030.380	3.0
2706.9405	23.00	-4.10	40225.380	1.5	43918.580	2.5
2707.0138	19.02	-2.00	240829.900	3.5	244523.000	2.5
2707.1597	14.00	-3.00	59109.959	3.0	62802.860	3.0
2707.1971	24.00	-4.82	34190.490	2.0	37883.340	2.0
2707.2557	26.00	-2.97	54004.820	3.0	57697.590	4.0
2707.2924	27.00	-4.22	48571.770	.5	52264.490	1.5
2707.3393	10.00	-4.27	168378.740	2.0	172071.396	2.0
2707.3459	28.00	-1.36	47139.392	2.0	50832.039	3.0
2707.3481	18.00	-3.03	120619.076	2.0	124311.720	1.0
2707.5564	15.01	-4.33	103668.740	3.0	107361.100	3.0
2707.6516	6.00	-2.75	84851.530	1.0	88543.760	0.0
2707.8886	7.00	-2.51	106778.337	1.5	110470.244	2.5
2707.8937	13.01	-3.92	139588.700	5.0	143280.600	4.0
2707.9964	26.02	-2.32	198338.620	4.0	202030.380	3.0
2707.9964	24.00	-3.65	37883.340	2.0	41575.100	3.0
2708.0110	28.01	-4.05	71457.740	3.5	75149.480	4.5
2708.2297	14.00	-2.12	60496.358	2.0	64187.800	3.0
2708.2671	7.00	-3.30	111905.609	2.5	115597.000	1.5
2708.3411	6.00	-4.03	85399.810	2.0	89091.100	1.0
2708.4424	7.00	-2.79	111198.848	.5	114890.000	1.5
2708.4784	18.00	-3.47	118469.117	2.0	122160.220	3.0
2708.9209	13.01	-1.07	142607.000	2.0	146297.500	1.0
2709.0127	14.00	-2.42	56690.903	2.0	60381.278	1.0
2709.0486	18.00	-3.86	122086.974	2.0	125777.300	1.0
2709.0677	15.00	-4.36	77843.900	2.5	81534.200	3.5
2709.1213	17.00	-4.47	97842.783	1.5	101533.010	2.5
2709.1397	7.00	-4.17	111326.798	2.5	115017.000	1.5
2709.1507	17.00	-4.61	97842.783	1.5	101532.970	1.5
2709.3835	6.00	-2.42	84851.530	1.0	88541.400	2.0
2709.6331	28.01	-3.84	114942.420	1.5	118631.950	.5
2709.7881	26.00	-4.30	48350.620	1.0	52039.939	1.0
2709.8240	9.00	-1.60	130221.120	1.5	133910.390	.5
2710.2722	6.00	-2.35	84950.360	2.0	88639.020	1.0
2710.3824	28.01	-2.64	114874.880	2.5	118563.390	3.5
2710.5360	7.00	-2.21	106758.731	.5	110447.032	1.5
2710.6690	24.00	-3.60	51286.520	2.0	54974.640	2.0
2710.7808	14.00	.02	57017.496	2.0	60705.464	3.0
2710.7940	7.00	-3.84	110521.050	1.5	114209.000	.5
2710.9042	21.00	-1.18	33798.680	2.5	37486.480	1.5
2710.9631	29.01	-2.02	117231.690	1.0	120919.410	1.0
2711.2351	23.00	-4.70	40378.700	4.5	44066.050	3.5
2711.2351	7.00	-3.33	110544.850	2.5	114232.200	1.5
2711.2887	17.00	-.81	97184.277	3.5	100871.554	3.5
2711.5425	17.00	.15	97184.277	3.5	100871.209	4.5
2711.8455	9.00	-1.87	129937.330	1.5	133623.850	1.5
2711.9044	6.00	-2.33	84950.360	2.0	88636.800	2.0
2712.2399	7.00	-1.34	111204.016	2.5	114890.000	1.5
2712.3678	9.01	.60	255498.600	2.0	259184.410	3.0
2712.5224	6.00	-1.98	85399.810	2.0	89085.410	1.0
2712.6881	14.00	-2.03	60962.105	2.0	64647.480	3.0
2712.9957	26.00	-4.17	44676.963	4.0	48361.920	4.0
2713.0893	25.00	-1.91	52883.100	.5	56567.930	1.5
2713.1997	20.02	-4.61	382565.100	5.0	386249.780	4.0
2713.2034	14.00	-2.88	60962.105	2.0	64646.780	2.0
2713.3647	10.00	-4.74	167639.561	1.0	171324.017	1.0
2713.4538	26.00	-3.83	43321.120	6.0	47005.455	5.0
2713.4721	9.02	-1.63	464921.740	3.5	468606.050	3.5
2713.5230	18.00	-1.86	119023.699	4.0	122707.940	3.0
2713.5532	9.02	.06	464921.740	3.5	468605.940	4.5
2713.6563	25.00	-3.46	52883.870	1.5	56567.930	1.5
2713.6563	25.00	-1.92	52883.870	2.5	56567.930	1.5
2713.6858	14.00	-4.03	59190.460	1.0	62874.480	2.0
2713.9952	15.00	-1.87	72741.600	1.5	76425.200	2.5
2714.0099	23.02	-2.64	158239.700	2.5	161923.280	2.5
2714.0099	20.02	-3.84	382565.100	5.0	386248.680	5.0
2714.0320	9.02	-2.75	440069.510	1.5	443753.060	2.5
2714.1367	14.00	-3.18	59191.072	2.0	62874.480	2.0
2714.1573	24.00	-2.71	44875.190	2.0	48558.570	2.0
2714.1941	23.00	-9.17	14514.750	1.5	18198.080	2.5
2714.3253	26.00	-3.56	47197.000	2.0	50880.152	1.0
2714.4211	26.00	-3.76	47420.215	5.0	51103.237	5.0
2714.5406	9.01	.45	255498.600	2.0	259181.460	2.0
2714.5574	18.00	-.58	113468.550	2.0	117151.387	1.0
2714.6290	26.02	-2.46	218923.080	3.0	222605.820	4.0
2714.6828	12.00	-1.72	57204.163	3.0	60886.830	2.0
2714.6828	12.00	-2.61	57204.163	3.0	60886.830	3.0
2714.7653	12.00	-2.56	57204.275	2.0	60886.830	2.0
2714.7653	12.00	-1.65	57204.275	2.0	60886.830	1.0
2714.7653	12.00	-2.35	57204.275	3.0	60886.830	2.0
2714.7653	12.00	-3.93	57204.275	2.0	60886.830	3.0
2714.7653	12.00	-2.77	57204.275	3.0	60886.830	3.0
2714.7653	12.00	-1.32	57204.275	4.0	60886.830	3.0
2714.9607	6.00	-2.24	85399.810	2.0	89082.100	3.0
2715.0566	26.02	-3.06	218923.080	3.0	222605.240	3.0
2715.2196	7.00	-2.25	111853.061	1.5	115535.000	2.5
2715.5116	17.00	-2.14	97184.277	3.5	100865.820	2.5
2715.5308	17.00	-4.26	97842.783	1.5	101524.300	2.5
2715.5463	26.00	-2.81	47017.170	3.0	50698.666	2.0
2715.6171	15.01	-1.25	127950.600	2.0	131632.000	3.0
2715.6827	26.00	-4.20	48531.896	3.0	52213.207	3.0
2715.7646	13.01	-.13	146185.000	2.0	149866.200	3.0
2715.7646	13.01	-1.04	146185.000	3.0	149866.200	3.0
2715.8185	7.00	-1.16	111260.873	3.5	114942.000	2.5
2715.8384	13.01	-.86	139588.700	4.0	143269.800	3.0
2715.8384	13.01	-.71	139588.700	4.0	143269.800	3.0
2715.8384	38.01	.12	64964.100	0.0	68646.204	0.0
2715.8598	22.00	-2.38	34170.950	0.0	37852.021	1.0
2715.8900	9.01	.23	255498.600	2.0	259179.630	1.0
2715.8915	14.00	-1.22	56700.250	1.0	60381.278	1.0
2716.1335	17.01	-2.51	149952.400	1.0	153633.100	1.0
2716.1483	28.01	-3.38	127219.970	3.5	130900.650	2.5
2716.5025	7.00	-4.15	110501.800	3.5	114182.000	2.5
2716.5837	6.00	-3.29	85399.810	2.0	89079.900	2.0
2716.5911	9.02	-.64	453696.100	.5	457376.180	.5
2716.8938	6.00	-2.02	84935.340	1.0	88615.010	1.0
2717.1759	22.00	-3.97	33980.639	2.0	37659.927	3.0
2717.3960	29.01	-1.45	141204.100	3.0	144883.090	2.0
2717.4108	28.01	-2.24	100619.260	4.5	104298.230	4.5
2717.7284	22.00	-3.66	37690.320	5.0	41368.860	4.0
2717.8289	7.00	-3.09	111271.596	.5	114950.000	.5
2717.8289	7.00	-2.68	111271.596	.5	114950.000	1.5
2717.8319	7.00	-3.41	112946.600	1.5	116625.000	1.5
2717.8319	7.00	-4.32	112946.600	1.5	116625.000	2.5
2717.9574	18.01	-2.38	205242.970	.5	208921.200	1.5
2717.9722	26.00	-3.58	46744.975	3.0	50423.185	4.0
2717.9796	15.00	-2.89	77843.900	2.5	81522.100	2.5
2718.0269	14.00	-.94	60705.464	3.0	64383.600	4.0
2718.4526	23.00	-3.91	34428.760	1.5	38106.320	2.5
2718.4948	22.00	-2.62	37659.927	3.0	41337.430	2.0
2718.6153	27.00	-3.37	49025.420	1.5	52702.760	1.5
2718.6204	26.00	-4.56	49604.402	5.0	53281.735	5.0
2718.6448	19.00	-.94	27397.100	2.5	31074.400	1.5
2718.7173	7.00	-1.88	111326.798	2.5	115004.000	2.5
2718.7173	7.00	-1.53	111326.798	2.5	115004.000	3.5
2718.9118	7.00	-4.34	111853.061	1.5	115530.000	.5
2718.9118	7.00	-2.50	111853.061	1.5	115530.000	1.5
2718.9406	15.00	-1.30	76659.400	2.5	80336.300	2.5
2719.0670	7.00	-2.09	111213.271	1.5	114890.000	1.5
2719.2438	27.00	-3.17	43847.980	3.5	47524.470	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2719.4132	18.00	-1.54	116942.815	3.0	120619.076	2.0
2719.4139	19.00	-1.90	27398.140	1.5	31074.400	1.5
2719.4864	28.00	-1.52	47030.148	3.0	50706.310	4.0
2719.5471	9.00	-1.79	129937.330	1.5	133613.410	.5
2719.9910	28.01	-3.49	130227.520	2.5	133903.000	1.5
2720.0672	10.00	-3.43	167648.640	2.0	171324.017	1.0
2720.2279	26.02	-2.84	219655.550	2.0	223330.710	3.0
2720.2590	17.00	-2.29	96494.722	4.5	100169.840	3.5
2720.2723	7.00	-2.18	112826.900	2.5	116502.000	1.5
2720.4204	15.00	-4.83	76021.600	1.5	79696.500	1.5
2720.4351	10.00	-2.03	168586.860	0.0	172261.740	1.0
2720.4573	19.00	0.00	21026.580	.5	24701.430	.5
2720.4943	15.00	-4.16	74271.800	1.5	77946.600	2.5
2720.5684	29.01	-2.37	146575.300	2.0	150250.000	2.0
2720.6128	6.00	-2.09	84950.360	2.0	88625.000	3.0
2720.9645	26.00	-3.46	47929.981	4.0	51604.146	3.0
2721.0868	13.01	-4.55	139588.700	3.0	143262.700	2.0
2721.1608	13.01	-.57	145126.500	2.0	148800.400	3.0
2721.1964	26.00	-2.29	48163.427	2.0	51837.279	3.0
2721.5311	15.00	-2.88	76875.400	1.5	80548.800	2.5
2721.5986	10.00	-3.53	167639.561	1.0	171312.870	0.0
2721.7461	26.02	-3.02	219092.860	5.0	222765.970	4.0
2721.9758	13.01	-1.36	142601.600	3.0	146274.400	2.0
2722.3093	26.02	-4.48	219162.420	6.0	222834.770	6.0
2722.3316	26.02	-3.39	219655.550	2.0	223327.870	2.0
2722.4517	8.00	-1.16	102116.710	2.0	105788.868	3.0
2722.4947	13.01	-1.29	139286.800	2.0	142958.900	1.0
2722.5681	18.00	-1.27	119023.699	4.0	122695.700	4.0
2722.5681	18.00	.36	119023.699	4.0	122695.700	5.0
2722.6451	8.00	-1.30	102116.710	2.0	105788.607	2.0
2722.6889	12.00	-3.94	57214.992	1.0	60886.830	2.0
2722.7097	6.00	-3.74	84036.400	2.0	87708.210	2.0
2722.7468	19.00	-1.20	27398.140	1.5	31069.900	.5
2722.7668	8.00	-1.52	102116.710	2.0	105788.443	1.0
2722.8135	20.00	-4.04	44762.620	2.0	48434.290	2.0
2722.8135	20.00	-3.13	44762.620	2.0	48434.290	1.0
2722.9396	13.01	-1.99	145128.900	3.0	148800.400	3.0
2722.9396	13.01	-3.92	145128.900	3.0	148800.400	4.0
2722.9396	13.01	-.46	145128.900	3.0	148800.400	4.0
2722.9433	17.00	-2.14	96494.722	4.5	100166.217	3.5
2722.9760	20.00	-3.13	44762.839	3.0	48434.290	2.0
2722.9760	20.00	-3.86	44762.839	3.0	48434.290	3.0
2723.1028	21.00	-3.85	32659.210	1.5	36330.490	2.5
2723.1829	20.00	-2.80	44763.118	4.0	48434.290	3.0
2723.2140	18.01	-2.64	189040.870	1.5	192712.000	1.5
2723.3491	14.00	-1.72	59131.912	4.0	62802.860	3.0
2723.3558	7.00	-2.79	111853.061	1.5	115524.000	1.5
2723.3558	7.00	-2.51	111853.061	1.5	115524.000	2.5
2723.3727	17.00	-.86	96494.722	4.5	100165.638	4.5
2723.6725	26.00	-4.51	51708.330	2.0	55378.842	2.0
2723.9560	28.01	-4.38	118442.810	1.5	122112.940	.5
2723.9783	30.02	-.68	258239.600	4.0	261909.700	4.0
2724.4237	13.01	-.33	142607.000	2.0	146276.500	3.0
2724.4905	6.00	-2.00	84935.340	1.0	88604.750	2.0
2724.5870	25.00	-4.53	51787.920	.5	55457.200	.5
2724.7311	26.00	-4.86	48350.620	1.0	52019.706	1.0
2725.0215	7.00	-2.63	106778.337	1.5	110447.032	1.5
2725.2703	23.01	-4.87	40430.100	4.0	44098.460	3.0
2725.3149	13.01	-1.86	145132.100	4.0	148800.400	4.0
2725.3149	13.01	-2.00	145132.100	4.0	148800.400	4.0
2725.3149	13.01	-.33	145132.100	4.0	148800.400	5.0
2725.3149	13.01	-3.42	145132.100	4.0	148800.400	3.0
2725.3818	24.00	-3.55	44050.870	4.0	47719.080	4.0
2725.4041	28.01	-4.77	118379.110	2.5	122047.290	3.5
2725.6961	26.00	-4.51	51708.330	2.0	55376.117	1.0
2726.0580	7.00	-3.25	112957.700	1.5	116625.000	1.5
2726.0580	7.00	-4.59	112957.700	1.5	116625.000	2.5
2726.0580	7.00	-3.54	112957.700	2.5	116625.000	1.5
2726.0580	7.00	-3.88	112957.700	2.5	116625.000	2.5
2726.1435	14.00	-.03	56973.256	1.0	60645.441	2.0
2726.5190	28.01	-3.63	129503.240	4.5	133169.920	3.5
2726.5264	27.00	-3.86	49197.740	4.5	52864.410	4.5
2726.6157	9.02	-.06	464939.500	2.5	468606.050	3.5
2726.7049	18.01	-2.58	196315.510	2.5	199981.940	1.5
2726.8760	9.02	-2.03	440202.480	2.5	443868.680	2.5
2727.4465	7.00	-2.12	111143.567	.5	114809.000	.5
2727.5530	23.00	-4.24	33360.310	3.5	37025.600	3.5
2727.6051	18.01	-3.84	199679.760	2.5	203344.980	1.5
2727.9780	28.00	-.56	50039.180	2.0	53703.899	1.0
2728.0294	6.00	-2.19	84950.360	2.0	88615.010	1.0
2728.2482	7.00	-2.41	111285.644	1.5	114950.000	.5
2728.2482	7.00	-3.19	111285.644	1.5	114950.000	1.5
2728.3867	6.00	-4.96	77679.820	2.0	81343.990	2.0
2728.5602	18.00	-1.33	114805.180	2.0	118469.117	2.0
2728.5654	10.01	-3.19	277325.600	1.5	280989.530	1.5
2728.6622	15.00	-2.05	76762.400	.5	80426.200	1.5
2729.3848	9.02	-3.74	440202.480	2.5	443865.310	1.5
2729.6441	14.00	-2.55	59056.508	1.0	62718.990	0.0
2729.6978	20.02	-4.73	382587.900	4.0	386250.310	3.0
2729.7873	26.02	-3.35	219162.420	6.0	222824.710	7.0
2730.1377	28.01	-2.78	129782.070	3.5	133443.890	2.5
2730.1824	28.01	-3.19	114970.190	.5	118631.950	.5
2730.3017	7.00	-4.46	110498.400	2.5	114160.000	1.5
2730.4359	10.01	-3.03	303237.910	1.5	306899.330	2.5
2730.5985	7.00	-2.92	111326.798	2.5	114988.000	1.5
2730.5985	7.00	-3.29	111326.798	2.5	114988.000	2.5
2730.5985	7.00	-1.51	111326.798	2.5	114988.000	3.5
2730.6895	25.00	-2.40	45754.270	3.5	49415.350	2.5
2730.9133	20.02	-3.44	382587.900	4.0	386248.680	5.0
2731.1296	20.02	-3.79	382587.900	4.0	386248.390	4.0
2731.3908	6.00	-1.47	84103.100	2.0	87763.240	3.0
2731.4348	37.00	.30	20132.510	0.0	23793.590	0.0
2731.7416	7.00	-3.10	112965.330	3.5	116625.000	2.5
2732.0103	23.00	-9.20	14514.750	1.5	18174.060	1.5
2732.1522	6.00	-1.80	84103.100	2.0	87762.220	2.0
2732.2268	6.00	-.74	84103.100	2.0	87762.120	3.0
2732.2493	22.00	-4.79	38159.710	3.0	41818.700	4.0
2732.3807	17.00	-1.44	96313.330	1.5	99972.144	.5
2732.5405	30.02	-.63	258171.200	5.0	261829.800	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2732.6234	14.00	-2.15	60645.441	2.0	64303.930	3.0
2732.8042	26.00	-4.03	44378.420	1.0	48036.667	2.0
2732.8393	7.00	-4.32	110501.800	3.5	114160.000	2.5
2732.8924	18.00	-2.09	116942.815	3.0	120600.944	2.0
2733.0470	14.00	-3.70	60706.558	1.0	64364.480	2.0
2733.1157	7.00	-3.96	112967.170	3.5	116625.000	2.5
2733.1979	24.00	-3.33	44050.870	4.0	47708.590	3.0
2733.2428	18.01	-3.40	210531.700	5.5	214189.360	4.5
2733.9125	17.00	-3.93	95612.357	1.5	99269.121	2.5
2734.1547	6.00	-1.97	84950.360	2.0	88606.800	3.0
2734.2175	7.00	-1.81	111285.644	1.5	114942.000	2.5
2734.3716	9.02	-1.66	440582.120	4.5	444238.270	4.5
2734.3791	26.01	-4.78	58666.360	3.5	62322.500	3.5
2734.6446	7.00	-.77	106814.459	2.5	110470.244	2.5
2734.7381	27.00	-3.74	42269.320	4.5	45924.980	3.5
2735.0299	22.00	-3.79	35757.510	4.0	39412.780	5.0
2735.0404	14.00	-1.40	53362.240	3.0	57017.496	2.0
2735.4191	9.00	-1.75	126282.580	1.5	129937.330	1.5
2735.5051	14.00	-3.15	60962.105	2.0	64616.740	2.0
2735.5163	18.00	-1.80	119566.110	3.0	123220.730	2.0
2735.5462	18.01	-1.88	196305.040	3.5	199959.620	2.5
2735.6196	18.00	-.42	114805.180	2.0	118459.662	1.0
2735.6885	6.00	-1.70	84950.360	2.0	88604.750	2.0
2735.7185	6.00	-3.14	85399.810	2.0	89054.160	2.0
2736.0748	26.00	-4.10	49627.861	4.0	53281.735	5.0
2736.2500	17.00	-2.74	91173.510	1.5	94827.150	2.5
2736.5047	30.02	-1.05	260584.100	1.0	264237.400	1.0
2736.6028	17.00	-1.38	91660.580	2.5	95313.749	1.5
2736.6920	6.00	-2.56	78116.740	1.0	81769.790	2.0
2736.7819	28.01	-4.90	106022.790	.5	109675.720	.5
2736.9101	17.00	-1.63	96594.096	.5	100246.855	1.5
2736.9243	26.00	-4.42	50614.020	4.0	54266.760	5.0
2737.4114	23.00	-2.87	38106.320	2.5	41758.410	3.5
2737.5313	26.02	-2.36	219092.860	5.0	222744.790	5.0
2737.5321	14.00	-4.45	60645.441	2.0	64297.370	3.0
2737.6063	6.00	-2.13	84984.970	3.0	88636.800	2.0
2737.8537	30.02	-1.71	258178.300	4.0	261829.800	5.0
2738.0486	27.00	-2.78	48443.760	2.5	52095.000	3.5
2738.2894	14.00	.14	57198.027	3.0	60848.946	4.0
2738.4011	23.00	-3.08	38003.930	1.5	41654.700	2.5
2738.5437	25.00	-4.69	45940.930	2.5	49591.510	1.5
2738.6037	30.02	-.96	260981.900	3.0	264632.400	3.0
2738.7087	24.00	-4.28	44068.720	3.0	47719.080	4.0
2738.7837	25.00	-4.85	57305.620	3.5	60955.880	4.5
2738.8287	15.00	-1.17	75689.200	1.5	79339.400	1.5
2738.9788	13.01	-4.66	142849.200	3.0	146499.200	4.0
2738.9788	13.01	-3.10	142849.200	4.0	146499.200	4.0
2738.9788	13.01	-3.24	142849.200	4.0	146499.200	4.0
2738.9788	13.01	-1.57	142849.200	5.0	146499.200	4.0
2739.0614	18.01	-3.50	210534.900	4.5	214184.790	3.5
2739.1380	14.00	-2.07	57798.072	2.0	61447.860	2.0
2739.2137	22.00	-4.64	36065.750	3.0	39715.437	3.0
2739.2715	14.01	-1.84	124496.000	2.5	128145.610	2.5
2739.2715	14.01	-.54	124496.000	2.5	128145.610	3.5
2739.2715	14.01	-.69	124496.000	1.5	128145.610	2.5
2739.2768	26.00	-4.34	47812.104	4.0	51461.707	4.0
2739.4216	22.00	-4.01	35652.950	3.0	39302.360	4.0
2739.5417	23.00	-7.79	14548.830	2.5	18198.080	2.5
2739.6694	19.00	-1.63	28999.270	.5	32648.350	.5
2739.7820	27.00	-4.23	48615.560	2.5	52264.490	1.5
2739.7895	6.00	-2.74	84935.340	1.0	88584.260	2.0
2739.8226	14.00	-1.49	58801.524	1.0	62450.400	1.0
2739.8646	22.00	-2.34	34327.960	1.0	37976.780	2.0
2740.0298	13.01	-3.23	142849.200	3.0	146497.800	3.0
2740.0298	13.01	-1.80	142849.200	4.0	146497.800	3.0
2740.0298	13.01	-1.07	142849.200	4.0	146497.800	3.0
2740.3753	28.00	-1.61	51124.800	3.0	54772.940	3.0
2740.3783	17.00	-2.62	95706.534	1.5	99354.670	1.5
2740.5571	14.00	-4.54	56733.380	0.0	60381.278	1.0
2740.7329	26.00	-3.63	48122.913	3.0	51770.577	3.0
2740.8261	12.01	-1.27	112197.060	2.5	115844.600	2.5
2740.8261	12.01	.03	112197.060	2.5	115844.600	3.5
2740.8336	6.00	-2.85	83986.220	3.0	87633.750	2.0
2740.8561	13.01	-1.81	142849.200	3.0	146496.700	2.0
2740.8862	28.01	-4.78	109038.840	1.5	112686.300	2.5
2740.8929	28.00	-2.80	47030.148	3.0	50677.599	3.0
2740.9012	12.01	-.13	112197.160	1.5	115844.600	2.5
2740.9913	14.00	-2.07	60704.530	3.0	64351.850	3.0
2741.1364	18.00	-.26	114821.990	3.0	118469.117	2.0
2741.1642	6.00	-1.61	84851.530	1.0	88498.620	2.0
2741.5273	26.00	-3.87	45281.816	2.0	48928.423	2.0
2741.5769	18.00	-2.84	121011.979	1.0	124658.520	2.0
2741.5777	28.01	-1.81	113177.610	3.5	116824.150	2.5
2741.8032	9.00	-4.68	129937.330	1.5	133583.570	2.5
2741.8258	17.00	-2.58	97530.130	2.5	101176.340	2.5
2741.8860	6.00	-3.08	84116.090	1.0	87762.220	2.0
2741.9529	17.00	-1.28	97530.130	2.5	101176.171	3.5
2742.0281	26.00	-3.44	46888.494	2.0	50534.435	3.0
2742.0289	6.00	-4.31	77679.820	2.0	81325.760	1.0
2742.3899	23.00	-3.36	38106.320	2.5	41751.780	1.5
2742.5035	26.00	-3.03	46889.126	4.0	50534.435	3.0
2742.5087	14.00	-4.28	60706.558	1.0	64351.860	1.0
2742.5554	10.01	-4.18	277344.290	2.5	280989.530	1.5
2742.6156	21.00	-5.94	14926.240	2.5	18571.400	2.5
2743.0822	18.01	-.86	201351.550	2.5	204996.090	3.5
2743.3456	10.01	-4.61	314018.940	.5	317663.130	1.5
2743.3682	29.01	-2.99	117231.690	1.0	120875.850	2.0
2743.4059	18.01	-3.19	196315.510	2.5	199959.620	2.5
2743.4887	30.02	-2.64	260988.400	4.0	264632.400	3.0
2743.5640	30.02	-2.67	258277.700	3.0	261921.600	2.0
2743.5737	10.00	-2.97	163012.621	1.0	166656.508	1.0
2743.6076	7.00	-2.13	111165.158	1.5	114809.000	.5
2743.6091	18.00	-3.10	120188.660	2.0	123832.500	3.0
2744.0090	18.00	-4.75	118870.981	0.0	122514.290	1.0
2744.3547	17.00	-2.38	91089.450	3.5	94732.300	3.5
2745.0209	12.00	-1.96	57017.724	1.0	60659.690	2.0
2745.0329	7.00	-3.59	110521.050	1.5	114163.000	1.5
2745.2742	26.02	-4.56	202030.380	3.0	205672.010	4.0
2745.3495	29.01	-1.42	117883.140	4.0	121524.670	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2745.3948	26.02	-2.57	219092.860	5.0	222734.330	4.0
2745.6738	15.00	-.87	76659.400	2.5	80300.500	3.5
2746.0018	12.00	-2.44	57019.025	2.0	60659.690	2.0
2746.0207	19.00	-1.34	29007.710	1.5	32648.350	.5
2746.2922	22.00	-2.35	38544.380	3.0	42184.660	4.0
2746.4507	9.00	-1.29	129937.330	1.5	133577.400	1.5
2746.4809	6.00	-2.74	84984.970	3.0	88625.000	3.0
2746.5487	9.00	-.30	126581.180	.5	130221.120	1.5
2746.6016	24.00	-3.44	44068.720	3.0	47708.590	3.0
2746.7148	18.00	-1.71	119566.110	3.0	123205.830	3.0
2746.7374	25.00	-2.33	59784.310	3.5	63424.000	3.5
2746.8054	15.00	-1.87	75699.800	.5	79339.400	1.5
2746.9570	22.00	-2.85	37555.021	3.0	41194.420	3.0
2746.9865	21.00	-3.84	32637.400	.5	36276.760	1.5
2747.2047	18.00	-2.13	121011.979	1.0	124651.050	1.0
2747.4092	13.01	.21	146274.400	2.0	149913.200	3.0
2747.6282	18.00	-3.22	120188.340	1.0	123826.850	2.0
2747.6433	29.01	-2.30	141244.600	1.0	144883.090	2.0
2747.8699	18.00	-4.61	120188.660	2.0	123826.850	2.0
2747.9303	26.02	-4.91	196886.010	6.0	200524.120	5.0
2748.2400	15.00	-3.35	75484.400	2.5	79122.100	1.5
2748.3253	14.00	-2.26	59032.140	2.0	62669.727	2.0
2748.4365	28.01	-4.02	118442.810	1.5	122080.250	2.5
2748.5876	22.00	-4.23	35577.140	2.0	39214.380	3.0
2748.7447	14.00	-4.00	60381.278	1.0	64018.310	1.0
2748.7508	14.00	-1.27	59032.140	2.0	62669.164	3.0
2748.9428	25.00	-4.83	59116.600	2.5	62753.370	2.5
2748.9716	7.00	-1.72	106758.731	.5	110395.463	1.5
2749.1121	28.00	-3.18	51124.800	3.0	54761.346	4.0
2749.5627	18.01	-1.68	186470.280	1.5	190106.230	1.5
2749.7647	14.00	-1.57	59032.140	2.0	62667.823	3.0
2749.9031	15.00	-.33	72386.100	2.5	76021.600	1.5
2750.7354	7.00	-3.15	112946.600	.5	116581.000	.5
2750.7354	7.00	-3.47	112946.600	.5	116581.000	1.5
2750.7354	7.00	-2.86	112946.600	1.5	116581.000	1.5
2750.7354	7.00	-4.27	112946.600	1.5	116581.000	2.5
2751.0230	29.01	-4.97	110365.980	2.0	114000.000	3.0
2751.1139	6.00	-1.68	84950.360	2.0	88584.260	2.0
2751.3032	21.00	-3.02	32696.840	2.5	36330.490	2.5
2751.5303	25.00	-1.66	57305.620	3.5	60938.970	4.5
2751.6969	27.00	-2.79	44568.470	2.5	48201.600	3.5
2751.8924	22.00	-2.61	37824.748	4.0	41457.620	3.0
2751.9545	10.00	-3.38	169976.740	0.0	173609.530	1.0
2751.9780	17.00	-2.30	91680.990	1.5	95313.749	1.5
2752.0772	10.00	-1.66	159379.993	0.0	163012.621	1.0
2752.1189	7.00	-1.08	106814.459	2.5	110447.032	1.5
2752.2727	24.00	-3.28	44875.190	2.0	48507.560	1.0
2752.2727	18.01	-1.30	201345.220	1.5	204977.590	2.5
2752.2901	10.00	-4.38	168967.353	1.0	172599.700	0.0
2752.5531	30.02	-1.79	258277.700	3.0	261909.700	4.0
2752.6289	15.00	-3.17	78132.600	.5	81764.500	1.5
2752.7652	18.00	-2.31	122160.220	3.0	125791.940	2.0
2752.7804	18.00	-3.08	121654.580	2.0	125286.280	1.0
2752.8858	18.00	-1.82	121011.979	1.0	124643.540	1.0
2752.9449	17.00	-4.20	94468.857	.5	98100.340	.5
2753.1367	27.00	-4.39	48828.870	2.5	52460.100	2.5
2753.1602	22.00	-1.88	37538.804	2.0	41170.003	3.0
2753.3111	15.00	-2.31	78133.500	2.5	81764.500	1.5
2753.8277	17.00	-1.22	97259.811	1.5	100890.130	2.5
2753.8420	29.01	-1.67	137614.300	0.0	141244.600	1.0
2753.9467	14.00	-4.29	53387.334	1.0	57017.496	2.0
2754.1159	7.00	-2.27	111853.061	1.5	115483.000	.5
2754.1159	7.00	-3.57	111853.061	1.5	115483.000	1.5
2754.5158	20.00	-3.44	44804.878	3.0	48434.290	2.0
2754.5318	7.00	-3.57	111905.609	2.5	115535.000	2.5
2754.5318	7.00	-2.37	111905.609	2.5	115535.000	3.5
2754.6615	28.01	-3.73	116167.760	1.5	119796.980	2.5
2754.9120	23.00	-4.43	33360.310	3.5	36989.200	2.5
2755.0411	24.00	-3.78	44068.720	3.0	47697.440	2.0
2755.0593	22.00	-3.19	37852.434	4.0	41481.130	5.0
2755.1930	10.02	-2.67	353148.000	3.0	356776.520	2.0
2755.2234	20.02	-4.83	370515.360	3.0	374143.840	3.0
2755.3987	12.00	-2.01	56308.381	2.0	59936.630	1.0
2755.4587	28.01	-4.59	88171.880	4.5	91800.050	4.5
2755.5271	20.02	-3.40	370515.360	3.0	374143.440	4.0
2755.6297	14.00	-.64	57017.496	2.0	60645.441	2.0
2755.6562	28.00	-4.68	40484.282	2.0	44112.192	1.0
2755.7322	24.00	-3.40	51176.880	0.0	54804.690	1.0
2755.8233	24.00	-4.06	44080.900	2.0	47708.590	3.0
2755.9753	18.00	-3.64	120753.520	3.0	124381.010	2.0
2756.0512	17.00	-3.29	98372.970	1.5	102000.360	1.5
2756.1196	17.01	-3.69	147053.700	2.0	150681.000	2.0
2756.2032	18.00	-2.56	120188.340	1.0	123815.530	1.0
2756.2123	26.00	-4.20	47834.529	5.0	51461.707	4.0
2756.2648	8.00	.53	95467.740	2.0	99094.849	3.0
2756.2990	7.00	-.80	106758.731	.5	110385.795	.5
2756.3560	12.00	-1.82	56308.381	2.0	59935.370	2.0
2756.3560	12.00	-1.62	56308.381	2.0	59935.370	3.0
2756.3560	12.00	-.87	56308.381	2.0	59935.370	3.0
2756.3940	7.00	-3.00	111853.061	1.5	115480.000	1.5
2756.3940	7.00	-2.61	111853.061	1.5	115480.000	.5
2756.4008	17.00	-4.46	98373.430	2.5	102000.360	1.5
2756.4464	18.00	-1.77	120188.660	2.0	123815.530	1.0
2756.4996	15.00	-1.91	76709.500	3.5	80336.300	2.5
2756.9101	14.00	-1.36	58893.400	3.0	62519.660	2.0
2756.9253	27.00	-2.73	48443.760	2.5	52070.000	2.5
2756.9504	28.00	-.91	47208.228	1.0	50834.435	2.0
2757.0698	18.01	-4.87	199525.150	1.5	203151.200	2.5
2757.0774	18.01	-.48	201351.550	2.5	204977.590	2.5
2757.0819	7.00	-.61	106477.800	.5	110103.834	1.5
2757.1534	28.01	-3.01	129988.050	2.5	133613.990	1.5
2757.1739	8.00	.38	95467.740	2.0	99093.653	2.0
2757.2598	15.01	-.02	127368.000	2.0	130993.800	3.0
2757.4652	26.00	-2.46	44411.137	1.0	48036.667	2.0
2757.5070	7.00	-4.54	110521.050	1.5	114146.525	2.5
2757.6858	8.00	.16	95467.740	2.0	99092.980	1.0
2757.6934	23.00	-9.51	14548.830	2.5	18174.060	1.5
2757.7482	14.00	-.93	57798.072	2.0	61423.230	3.0
2757.9239	22.00	-3.73	37743.933	3.0	41368.860	4.0
2757.9368	18.00	-1.75	119760.220	1.0	123385.130	0.0
2758.0738	18.00	-2.34	120207.770	4.0	123832.500	3.0
2758.1194	22.00	-1.79	34535.040	2.0	38159.710	3.0
2758.2708	14.00	-3.22	58311.659	0.0	61936.130	1.0
2758.3317	7.00	-3.57	111905.609	2.5	115530.000	1.5
2758.4413	12.00	-2.68	57204.163	3.0	60828.410	2.0
2758.5266	12.00	-1.95	57204.275	3.0	60828.410	2.0
2758.5266	12.00	-2.88	57204.275	2.0	60828.410	2.0
2758.8501	19.00	-1.17	27450.690	.5	31074.400	1.5
2759.1547	28.01	-4.02	130757.510	4.5	134380.820	3.5
2759.1623	7.00	-2.85	112957.700	1.5	116581.000	.5
2759.1623	7.00	-3.19	112957.700	1.5	116581.000	1.5
2759.1623	7.00	-3.45	112957.700	2.5	116581.000	1.5
2759.1623	7.00	-4.67	112957.700	2.5	116581.000	2.5
2759.1928	6.00	-2.46	84935.340	1.0	88558.600	1.0
2759.2263	18.00	-4.47	121068.804	1.0	124692.020	2.0
2759.2369	7.00	-2.68	111326.798	2.5	114950.000	1.5
2759.3763	7.00	-.62	106778.337	1.5	110401.356	2.5
2759.4365	23.00	-1.97	34619.520	2.5	38242.460	3.5
2759.7868	18.01	-1.82	199879.320	3.5	203501.800	2.5
2759.9187	10.00	-2.03	167867.178	0.0	171489.485	1.0
2760.0000	2.00	-1.09	191493.000	0.0	195116.188	0.0
2760.2822	6.00	-1.34	84984.970	3.0	88606.800	3.0
2760.3813	6.00	-2.64	78148.090	2.0	81769.790	2.0
2760.5337	22.00	-4.42	35527.760	1.0	39149.260	2.0
2760.5337	7.00	-4.09	112880.500	2.5	116502.000	1.5
2760.5794	26.02	-4.31	219092.860	5.0	222714.300	6.0
2761.1513	25.00	-2.22	52870.100	3.5	56490.790	2.5
2761.2351	9.02	.21	440582.120	4.5	444202.700	5.5
2761.4106	22.00	-3.81	36065.750	3.0	39686.100	2.0
2761.4106	6.00	-3.74	84013.400	2.0	87633.750	2.0
2761.4792	18.00	-2.90	120188.340	1.0	123808.600	2.0
2761.4945	18.01	-1.60	186890.950	2.5	190511.190	2.5
2761.6012	9.00	-1.94	129937.330	1.5	133557.430	2.5
2761.7233	18.00	-1.95	120188.660	2.0	123808.600	2.0
2761.8454	6.00	-2.92	84984.970	3.0	88604.750	2.0
2761.8477	22.00	-2.55	34204.971	4.0	37824.748	4.0
2761.9163	18.00	-1.85	116999.389	2.0	120619.076	2.0
2762.0438	23.00	-3.44	34486.800	2.5	38106.320	2.5
2762.1201	10.01	.48	303279.910	2.5	306899.330	2.5
2762.1735	14.00	-2.59	61305.050	3.0	64924.400	3.0
2762.2803	19.00	-1.48	27450.690	.5	31069.900	.5
2762.7460	17.01	-3.03	149952.400	1.0	153571.000	1.0
2762.8957	7.00	-1.76	111271.596	.5	114890.000	1.5
2762.9056	7.00	-3.12	111905.609	2.5	115524.000	2.5
2762.9056	7.00	-3.34	111905.609	2.5	115524.000	3.5
2762.9056	7.00	-4.07	111905.609	2.5	115524.000	1.5
2763.0843	10.00	-1.53	163038.351	2.0	166656.508	1.0
2763.0896	7.00	-4.55	110544.850	2.5	114163.000	1.5
2763.1431	23.00	-2.61	38242.460	3.5	41860.540	4.5
2763.3134	18.00	-3.94	118469.117	2.0	122086.974	2.0
2763.4432	14.00	-1.29	61306.713	4.0	64924.400	3.0
2763.5479	21.00	-3.18	32659.210	1.5	36276.760	1.5
2763.8306	23.00	-4.73	15062.940	6.5	18680.120	5.5
2763.8718	7.00	-.81	106778.337	1.5	110395.463	1.5
2763.9292	26.00	-4.58	48122.913	3.0	51739.964	2.0
2764.3197	24.00	-3.76	44080.900	2.0	47697.440	2.0
2764.3350	9.00	-.94	129381.860	2.5	132998.380	1.5
2764.4191	18.01	-1.03	186890.950	2.5	190507.360	1.5
2764.5949	9.00	-1.54	129607.070	.5	133223.250	.5
2764.6316	14.00	-2.00	60706.558	1.0	64322.690	0.0
2764.8013	28.01	-4.57	136392.850	3.5	140008.760	3.5
2764.9848	7.00	-4.14	112965.330	3.5	116581.000	2.5
2765.0460	6.00	-3.07	83497.620	2.0	87113.210	2.0
2765.0537	25.00	-3.72	59290.230	3.5	62905.810	2.5
2765.3366	20.00	-1.15	44955.670	0.0	48570.880	1.0
2765.3428	7.00	-1.45	111326.798	2.5	114942.000	2.5
2765.3672	17.00	-4.23	98372.970	1.5	101988.140	2.5
2765.6924	28.00	-2.87	47139.392	2.0	50754.137	2.0
2765.7192	17.00	-3.07	98373.430	2.5	101988.140	2.5
2766.1860	17.01	-3.00	150019.000	0.0	153633.100	1.0
2766.1860	7.00	-4.85	112826.900	2.5	116441.000	2.5
2766.1860	7.00	-4.21	112826.900	3.5	116441.000	2.5
2766.2648	26.00	-4.44	51762.120	2.0	55376.117	1.0
2766.3926	7.00	-4.23	112967.170	3.5	116581.000	2.5
2766.4769	6.00	-1.97	84935.340	1.0	88549.060	1.0
2766.7080	12.00	-3.89	57214.992	1.0	60828.410	2.0
2766.7831	28.01	-2.94	136392.850	3.5	140006.170	4.5
2766.8559	20.00	-1.28	44957.655	1.0	48570.880	1.0
2766.8559	20.00	-.97	44957.655	1.0	48570.880	2.0
2766.8604	14.00	-4.53	59056.508	1.0	62669.727	2.0
2767.0435	18.01	-2.36	196621.880	3.5	200234.860	2.5
2767.1752	14.00	-2.35	54185.264	1.0	57798.072	2.0
2767.5644	15.00	-.82	70689.400	3.5	74301.700	2.5
2767.9567	14.00	-4.42	59191.072	2.0	62802.860	3.0
2768.1468	22.00	-2.78	43583.140	3.0	47194.680	4.0
2768.1544	6.00	-.69	84984.970	3.0	88596.500	4.0
2768.1621	23.00	-9.11	14514.750	1.5	18126.270	1.5
2768.3798	28.00	-.26	50142.800	3.0	53754.036	2.0
2768.6681	25.00	-4.06	56490.790	2.5	60101.650	2.5
2768.6911	29.01	-2.94	141204.100	3.0	144814.930	3.0
2768.6987	56.01	.44	58025.180	0.0	61636.985	0.0
2768.7371	20.02	-4.51	370533.070	4.0	374143.840	3.0
2768.7447	28.01	-3.52	127331.600	2.5	130942.360	1.5
2768.7908	13.01	-.66	144638.900	3.0	148249.600	4.0
2769.0285	26.00	-1.89	50803.350	2.0	54413.740	3.0
2769.0438	20.02	-2.97	370533.070	4.0	374143.440	4.0
2769.0975	15.00	-1.04	75905.100	2.5	79515.400	3.5
2769.1129	18.00	-1.93	122601.290	1.0	126211.570	1.0
2769.1742	13.01	-1.18	144638.900	2.0	148249.100	3.0
2769.1742	13.01	-2.09	144638.900	3.0	148249.100	3.0
2769.2111	7.00	-2.32	111198.848	.5	114809.000	.5
2769.4811	13.01	-1.72	144638.900	2.0	148248.700	2.0
2769.4811	13.01	-.99	144638.900	1.0	148248.700	2.0
2769.4811	13.01	-3.26	144638.900	3.0	148248.700	2.0
2769.7880	17.01	-1.68	143996.300	4.0	147605.700	3.0
2769.7941	14.00	-3.18	60381.278	1.0	63990.670	2.0
2769.9415	27.00	-4.34	49025.420	1.5	52634.620	.5
2770.0005	20.00	-2.45	44961.757	2.0	48570.880	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2770.0005	20.00	-1.44	44961.757	2.0	48570.880	2.0
2770.0005	20.00	-.52	44961.757	2.0	48570.880	3.0
2770.0182	7.00	-3.78	112826.900	2.5	116436.000	1.5
2770.0182	7.00	-4.19	112826.900	2.5	116436.000	2.5
2770.0182	7.00	-2.65	112826.900	3.5	116436.000	2.5
2770.4634	24.00	-4.23	44088.920	1.0	47697.440	2.0
2770.4957	18.00	-3.19	118870.981	0.0	122479.459	1.0
2770.5402	6.00	-1.66	84935.340	1.0	88543.760	0.0
2770.6785	6.00	-3.07	84950.360	2.0	88558.600	1.0
2770.7536	14.00	-2.81	60010.458	1.0	63618.600	0.0
2770.7859	30.02	-.74	257678.700	2.0	261286.800	1.0
2771.0548	9.00	-1.80	130016.100	2.5	133623.850	1.5
2771.1508	28.00	-2.35	51124.800	3.0	54732.425	2.0
2771.2698	27.00	-2.25	45876.580	2.5	49484.050	3.5
2771.2790	7.00	-1.00	106778.337	1.5	110385.795	.5
2771.3390	9.00	-1.73	125877.280	1.5	129484.660	1.5
2771.5157	26.00	-2.36	48163.427	2.0	51770.577	3.0
2771.6540	28.01	-2.61	99418.610	3.5	103025.580	2.5
2771.6924	25.00	-1.80	52883.870	1.5	56490.790	2.5
2771.6924	25.00	-2.34	52883.870	2.5	56490.790	2.5
2771.7308	28.01	-4.60	117573.680	4.5	121180.550	5.5
2771.9153	26.02	-2.54	219004.530	4.0	222611.160	5.0
2772.0106	14.00	-1.15	60705.464	3.0	64311.970	4.0
2772.0882	12.00	-1.52	54248.809	0.0	57855.214	1.0
2772.1689	25.00	-2.70	59817.700	2.5	63424.000	3.5
2772.1690	13.01	.36	139242.900	3.0	142849.200	4.0
2772.1690	13.01	.53	139242.900	3.0	142849.200	4.0
2772.1690	13.01	-4.01	139242.900	3.0	142849.200	3.0
2772.2150	20.02	-3.51	370533.070	4.0	374139.310	5.0
2772.2158	18.00	-1.09	121165.431	3.0	124771.670	2.0
2772.3050	17.00	-3.61	91538.500	1.5	95144.623	2.5
2772.3534	6.00	-1.68	84935.340	1.0	88541.400	2.0
2772.3634	10.00	-3.89	168967.353	1.0	172573.400	2.0
2772.3926	17.00	-.72	97259.811	1.5	100865.820	2.5
2772.4203	26.00	-3.12	47092.693	3.0	50698.666	2.0
2772.4326	13.00	-2.09	43335.013	.5	46940.970	1.5
2772.7463	17.00	-1.53	97259.811	1.5	100865.360	1.5
2772.7763	28.01	-1.99	116191.470	2.5	119796.980	2.5
2772.7840	6.00	-4.47	83497.620	2.0	87103.120	1.0
2772.9609	17.00	-2.28	91127.030	2.5	94732.300	3.5
2772.9994	28.01	-3.09	100475.820	3.5	104081.040	4.5
2773.0701	12.00	-1.05	54250.086	1.0	57855.214	1.0
2773.6149	17.00	-4.92	98383.720	3.5	101988.140	2.5
2773.6640	7.00	-2.26	111285.644	1.5	114890.000	1.5
2774.0535	22.00	-4.64	35503.400	0.0	39107.250	1.0
2774.1305	23.00	-4.48	40314.830	3.5	43918.580	2.5
2774.1898	13.00	-1.83	43337.877	1.5	46941.550	2.5
2774.2152	28.01	-2.89	130691.350	1.5	134294.990	2.5
2774.3153	18.01	-1.41	192712.000	1.5	196315.510	2.5
2774.3845	23.00	-8.09	14910.040	3.5	18513.460	4.5
2774.4230	18.01	-3.39	196076.390	1.5	199679.760	2.5
2774.5462	18.00	-3.31	120753.520	3.0	124356.730	2.0
2774.6364	13.00	-2.79	43337.877	1.5	46940.970	1.5
2774.9467	18.00	-1.86	120229.810	3.0	123832.500	3.0
2775.0006	10.00	-3.91	169748.150	1.0	173350.770	1.0
2775.1000	56.00	-1.34	9033.000	0.0	12636.474	0.0
2775.1024	12.00	-.83	54252.726	2.0	57855.214	1.0
2775.1300	14.00	-2.58	58774.368	3.0	62376.820	3.0
2775.1393	25.00	-4.09	59480.800	2.5	63083.240	1.5
2775.1469	18.00	-3.37	120230.070	2.0	123832.500	3.0
2775.2363	18.00	-1.97	114805.180	2.0	118407.494	1.0
2775.6015	18.01	-3.95	196633.020	2.5	200234.860	2.5
2775.6247	18.00	-1.63	122609.760	1.0	126211.570	1.0
2775.7287	7.00	-3.40	110544.850	2.5	114146.525	2.5
2775.7619	7.00	-1.63	111501.368	1.5	115103.000	2.5
2775.7796	7.00	-.81	106868.635	3.5	110470.244	2.5
2775.7865	28.01	-4.50	119833.000	5.5	123434.600	4.5
2775.8213	18.00	-.99	116999.389	2.0	120600.944	2.0
2775.8405	18.00	-1.62	122601.290	1.0	126202.820	0.0
2775.9237	22.00	-2.49	38451.298	2.0	42052.720	3.0
2775.9646	14.00	-3.69	58775.451	2.0	62376.820	3.0
2775.9792	9.00	.25	130489.930	.5	134091.280	1.5
2776.0023	10.00	-3.22	169748.150	1.0	173349.470	2.0
2776.0255	26.02	-3.21	219004.530	4.0	222605.820	4.0
2776.4726	26.02	-4.65	219004.530	4.0	222605.240	3.0
2776.7086	26.00	-4.70	49460.876	5.0	53061.280	5.0
2777.1622	28.00	-.13	48671.900	3.0	52271.716	2.0
2777.2362	9.00	-3.66	130059.400	.5	133659.120	.5
2777.3751	18.01	-.08	201351.550	2.5	204951.090	3.5
2777.4908	20.01	-1.26	86727.060	3.5	90326.450	3.5
2777.4908	20.01	.28	86727.060	3.5	90326.450	4.5
2777.4908	20.01	.17	86727.060	2.5	90326.450	3.5
2777.5140	10.02	-3.27	353177.160	2.0	356776.520	2.0
2777.5680	6.00	-.97	84984.970	3.0	88584.260	2.0
2777.5858	14.00	-2.34	60487.103	1.0	64086.370	1.0
2777.6684	19.00	-2.92	28999.270	.5	32598.430	1.5
2777.9987	7.00	-2.26	111501.368	1.5	115100.100	2.5
2778.0234	6.00	-1.33	84950.360	2.0	88549.060	1.0
2778.1901	22.00	-2.53	18141.229	5.0	21739.713	5.0
2778.2040	14.00	-2.22	60705.464	3.0	64303.930	3.0
2778.2187	26.00	-4.50	48238.832	2.0	51837.279	3.0
2778.3044	18.00	-1.91	117563.020	0.0	121161.356	1.0
2778.4480	23.00	-3.04	36989.200	2.5	40587.350	3.5
2778.4866	25.00	-1.75	52758.110	4.5	56356.210	3.5
2778.5098	28.01	-3.91	132729.480	2.5	136327.550	1.5
2778.5700	18.00	-.31	114861.670	0.0	118459.662	1.0
2778.9894	26.00	-3.87	47106.463	4.0	50703.912	5.0
2779.0659	6.00	-4.49	84036.400	2.0	87633.750	2.0
2779.1973	25.00	-3.11	57305.620	3.5	60902.800	3.5
2779.3054	18.00	-3.29	120229.810	3.0	123826.850	2.0
2779.3363	15.01	-.56	127756.300	2.0	131353.300	2.0
2779.5064	18.00	-1.96	120230.070	2.0	123826.850	2.0
2779.7073	9.00	-1.42	130374.860	1.5	133971.380	1.5
2779.7459	18.00	-3.23	121191.920	2.0	124788.390	1.0
2780.0628	10.00	-4.92	167001.130	3.0	170597.190	2.0
2780.3187	7.00	-2.62	111213.271	1.5	114809.000	.5
2780.4804	18.00	-3.46	120753.520	3.0	124349.040	3.0
2780.5167	22.00	-1.75	37659.927	3.0	41255.400	4.0
2780.5368	10.00	-4.56	168967.353	1.0	172562.800	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2780.8516	14.03	.47	318742.790	.5	322337.830	1.5
2780.9212	28.01	-1.55	103025.580	2.5	106620.530	3.5
2781.0891	17.00	-1.76	84485.309	1.5	88080.042	2.5
2781.1533	17.00	-.85	91069.020	.5	94663.670	1.5
2781.1611	28.01	.14	134527.240	3.5	138121.880	4.5
2781.2384	6.00	-1.15	84950.360	2.0	88544.900	3.0
2781.3321	12.00	-3.42	56968.218	3.0	60562.637	2.0
2781.3321	12.00	-2.09	56968.218	3.0	60562.637	3.0
2781.3321	12.00	-2.28	56968.218	3.0	60562.637	3.0
2781.3321	12.00	-.81	56968.218	3.0	60562.637	4.0
2781.3553	12.00	-2.04	56968.248	2.0	60562.637	2.0
2781.3553	12.00	-1.15	56968.248	2.0	60562.637	3.0
2781.3553	12.00	-2.01	56968.248	2.0	60562.637	3.0
2781.3730	12.00	-1.14	56968.271	1.0	60562.637	2.0
2781.8792	10.00	-1.67	163012.621	1.0	166606.333	0.0
2782.3841	18.00	-1.93	122609.760	1.0	126202.820	0.0
2782.4445	14.00	-1.21	54205.090	2.0	57798.072	2.0
2782.5776	23.00	-4.32	40325.770	2.5	43918.580	2.5
2783.0145	14.00	-3.41	60705.464	3.0	64297.710	4.0
2783.2779	14.00	-3.28	60705.464	3.0	64297.370	3.0
2783.3601	13.01	.08	146274.400	2.0	149866.200	3.0
2783.7608	7.00	-2.07	106758.731	.5	110350.014	.5
2783.9491	6.00	-2.31	84950.360	2.0	88541.400	2.0
2783.9801	15.00	-1.13	76709.500	3.5	80300.500	3.5
2784.0406	14.00	-1.14	53387.334	1.0	56978.256	1.0
2784.0965	18.00	-1.37	121191.920	2.0	124782.770	1.0
2784.1197	9.00	-3.74	130374.860	1.5	133965.680	2.5
2784.1895	14.00	-2.03	60704.530	3.0	64295.260	3.0
2784.1973	19.00	-3.73	29007.710	1.5	32598.430	1.5
2784.2981	19.00	-2.77	29007.710	1.5	32598.300	2.5
2784.4376	9.00	.69	130016.100	2.5	133606.510	3.5
2784.6005	30.02	-2.36	258239.600	4.0	261829.800	5.0
2784.7463	14.00	-2.18	60496.358	2.0	64086.370	1.0
2784.7634	25.00	-2.43	41403.930	2.5	44993.920	3.5
2784.7867	14.00	-4.06	58786.860	3.0	62376.820	3.0
2784.8410	18.01	-3.73	196089.870	2.5	199679.760	2.5
2784.9046	14.00	-3.07	57372.297	2.0	60962.105	2.0
2785.1203	21.00	-4.90	14926.240	2.5	18515.770	1.5
2785.1358	28.01	-3.90	112686.300	2.5	116275.810	3.5
2785.1435	27.00	-2.72	48443.760	2.5	52033.260	1.5
2785.1598	12.00	-2.42	56308.381	2.0	59897.860	1.0
2785.1598	12.00	-2.90	56308.381	2.0	59897.860	2.0
2785.3414	26.00	-2.27	44166.240	3.0	47755.485	3.0
2785.5005	10.02	-3.00	353177.160	2.0	356766.200	1.0
2785.6612	14.00	-2.14	59636.667	1.0	63225.500	2.0
2785.7171	7.00	-.40	106814.459	2.5	110403.220	3.5
2785.8187	6.00	-3.10	83752.410	1.0	87341.040	0.0
2785.8933	18.00	-1.76	121161.356	1.0	124749.890	0.0
2786.3545	14.00	-1.72	58788.880	4.0	62376.820	3.0
2787.0847	15.00	-4.74	74301.700	2.5	77888.700	1.5
2787.1648	7.00	-.34	106814.459	2.5	110401.356	2.5
2787.7111	26.00	-4.79	46889.126	4.0	50475.320	4.0
2787.8806	7.00	-1.14	103667.130	1.5	107253.106	2.5
2788.2818	18.00	-3.32	120230.070	2.0	123815.530	1.0
2788.4373	18.00	-4.20	120188.660	2.0	123773.920	3.0
2788.7718	26.02	-2.95	219743.040	1.0	223327.870	2.0
2789.2464	14.02	-1.14	240284.280	2.0	243868.500	3.0
2789.2775	18.01	-2.00	201345.220	1.5	204929.400	.5
2789.3531	17.00	-1.64	84688.637	.5	88272.720	.5
2789.3888	26.00	-4.52	48928.423	2.0	52512.460	1.0
2789.7290	13.01	-1.22	142849.200	4.0	146432.800	4.0
2789.7290	13.01	-1.36	142849.200	4.0	146432.800	4.0
2789.7290	13.01	.41	142849.200	4.0	146432.800	5.0
2789.7290	13.01	-3.78	142849.200	4.0	146432.800	5.0
2789.7290	13.01	-2.69	142849.200	4.0	146432.800	5.0
2789.7290	13.01	.41	142849.200	4.0	146432.800	5.0
2789.7290	13.01	-2.98	142849.200	5.0	146432.800	4.0
2789.7290	13.01	-1.23	142849.200	5.0	146432.800	5.0
2789.7290	13.01	-1.34	142849.200	5.0	146432.800	5.0
2789.7290	13.01	.49	142849.200	5.0	146432.800	6.0
2789.7290	13.01	.31	142849.200	3.0	146432.800	4.0
2789.8847	13.01	-.58	142601.600	3.0	146185.000	2.0
2789.8847	13.01	-1.49	142601.600	3.0	146185.000	3.0
2790.0194	22.00	-3.32	36132.210	4.0	39715.437	3.0
2790.2351	26.02	-2.20	198336.580	5.0	201919.530	4.0
2790.3908	10.01	-.54	304440.240	.5	308022.990	.5
2790.5303	37.00	.01	20132.510	0.0	23716.058	0.0
2790.6089	26.02	-4.25	198337.060	3.0	201919.530	4.0
2790.6868	26.02	-3.17	219162.420	6.0	222744.790	5.0
2790.7024	18.00	-3.17	120250.150	3.0	123832.500	3.0
2790.7024	18.00	-1.17	120250.150	4.0	123832.500	3.0
2790.8193	15.01	-.92	127368.000	2.0	130950.200	2.0
2790.8232	14.00	-3.57	60815.925	2.0	64398.120	2.0
2790.8668	26.00	-3.40	48122.913	3.0	51705.052	2.0
2791.2595	26.00	-2.32	50423.185	4.0	54004.820	3.0
2791.4341	26.00	-3.47	40052.080	2.0	43633.491	2.0
2791.4583	26.02	-2.61	202156.130	2.0	205737.510	2.0
2791.4840	22.00	-2.83	34078.580	3.0	37659.927	3.0
2791.5518	17.00	-3.21	98419.100	2.5	102000.360	1.5
2791.7513	7.00	-1.01	106814.459	2.5	110395.463	1.5
2791.8246	26.02	-4.61	198338.620	4.0	201919.530	4.0
2792.1989	18.01	-.74	186074.350	2.5	189654.780	2.5
2792.3081	18.01	-.37	187589.230	2.5	191169.520	1.5
2792.5967	21.00	-2.69	32696.840	2.5	36276.760	1.5
2792.6755	26.00	-4.03	48460.120	0.0	52039.939	1.0
2792.7208	7.00	-3.60	110710.739	2.5	114290.500	2.5
2792.7294	18.00	-1.79	121191.920	2.0	124771.670	2.0
2792.9322	28.01	-4.69	130801.330	4.5	134380.820	3.5
2792.9322	22.00	-4.65	35527.760	1.0	39107.250	1.0
2792.9712	27.00	-4.99	50578.730	3.5	54158.170	4.5
2792.9876	14.00	-2.33	61303.381	3.0	64882.800	2.0
2793.0024	13.01	0.00	134917.300	1.0	138496.700	1.0
2793.1428	18.01	-.47	200151.640	1.5	203730.860	1.5
2793.2209	10.02	-3.34	353197.400	1.0	356776.520	0.0
2793.2209	10.02	-4.44	353197.400	1.0	356776.520	2.0
2793.3356	20.00	-4.44	39340.080	2.0	42919.053	2.0
2793.3536	21.00	-2.30	32751.540	3.5	36330.490	2.5
2793.4785	18.00	-1.34	120229.810	3.0	123808.600	2.0
2793.6580	15.00	.09	66813.040	1.5	70391.600	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2793.6814	25.00	-2.84	59652.900	5.5	63231.430	4.5
2793.6814	18.00	-2.47	120230.070	2.0	123808.600	2.0
2793.6916	14.00	-3.25	61304.283	2.0	64882.800	2.0
2793.7048	27.00	-2.98	42796.670	1.5	46375.170	1.5
2793.7205	18.00	-1.17	119683.113	2.0	123261.593	2.0
2793.7829	15.00	-3.32	77655.200	3.5	81233.600	3.5
2794.2764	26.00	-2.67	50534.435	3.0	54112.203	2.0
2794.2905	14.00	-3.65	61305.050	3.0	64882.800	2.0
2794.4584	28.00	-2.37	47139.392	2.0	50716.927	1.0
2794.5326	23.00	-8.76	14548.830	2.5	18126.270	1.5
2794.5709	7.00	-2.73	111905.609	2.5	115483.000	1.5
2794.6264	28.01	-4.98	118563.390	3.5	122140.710	4.5
2794.6420	38.01	.35	71065.800	0.0	74644.076	0.0
2794.6420	38.01	-.95	71065.800	0.0	74644.076	0.0
2794.6732	29.01	-1.22	135664.340	1.0	139241.600	1.0
2794.9670	17.00	-1.83	96594.096	.5	100170.980	1.5
2795.1108	18.00	-1.26	120250.150	3.0	123826.850	2.0
2795.2265	22.00	-3.72	37617.868	4.0	41194.420	3.0
2795.2382	26.00	-3.26	48163.427	2.0	51739.964	2.0
2795.3125	18.00	-1.23	122635.128	2.0	126211.570	1.0
2795.4703	26.02	-3.40	202156.130	2.0	205732.370	3.0
2795.9864	15.00	.27	67113.820	2.5	70689.400	3.5
2796.0004	14.00	-2.83	58774.368	3.0	62349.930	2.0
2796.1677	7.00	-4.20	110715.152	3.5	114290.500	2.5
2796.3070	23.00	-4.26	34428.760	1.5	38003.930	1.5
2796.3993	28.00	-4.14	51124.800	3.0	54699.852	3.0
2796.4008	24.00	-3.24	44125.900	1.0	47700.950	2.0
2796.8475	14.00	-2.91	58775.451	2.0	62349.930	2.0
2796.8835	28.00	-2.12	44112.192	1.0	47686.625	0.0
2796.9164	7.00	-2.16	111905.609	2.5	115480.000	1.5
2797.0033	24.00	-3.55	44125.900	1.0	47700.180	1.0
2797.0033	18.01	-1.83	196305.040	3.5	199879.320	3.5
2797.1598	26.00	-4.99	48475.740	3.0	52049.820	2.0
2797.1832	25.00	-4.91	56567.930	1.5	60141.980	.5
2797.7398	18.00	-.90	113426.050	2.0	116999.389	2.0
2797.7516	14.00	-.98	59917.336	2.0	63490.660	3.0
2798.3029	24.00	-4.50	33671.550	3.0	37244.170	4.0
2798.4407	26.00	-3.10	50698.666	2.0	54271.110	1.0
2798.4674	27.00	-2.74	43952.060	5.5	47524.470	4.5
2798.5536	7.00	-2.45	112868.700	3.5	116441.000	2.5
2798.6084	17.00	-.75	98372.970	1.5	101945.200	.5
2798.6084	17.00	-1.45	98372.970	1.5	101945.200	1.5
2798.6946	22.00	-4.58	35577.140	2.0	39149.260	2.0
2798.7071	14.00	-1.63	59917.336	2.0	63489.440	2.0
2798.8842	26.00	-2.32	44183.607	2.0	47755.485	3.0
2798.8850	18.00	-2.09	119683.113	2.0	123254.990	1.0
2798.9085	22.00	-4.52	37622.573	3.0	41194.420	3.0
2798.9688	17.00	-.73	98373.430	2.5	101945.200	1.5
2799.0416	7.00	-2.07	106778.337	1.5	110350.014	.5
2799.3136	29.01	-.92	135759.970	2.0	139331.300	3.0
2799.3999	28.01	-4.60	130331.780	1.5	133903.000	1.5
2799.7918	6.00	-3.52	78199.070	2.0	81769.790	2.0
2799.8279	14.00	-1.72	59917.336	2.0	63488.010	3.0
2799.8781	22.00	-2.79	43467.550	2.0	47038.160	3.0
2800.1369	27.00	-4.80	50712.450	2.5	54282.730	2.5
2800.2467	14.03	.17	318742.790	.5	322312.930	.5
2800.4028	14.00	-1.63	58311.659	0.0	61881.600	1.0
2800.4616	18.00	-1.77	117183.654	2.0	120753.520	3.0
2800.9057	15.00	-2.62	76192.300	1.5	79761.600	2.5
2800.9449	17.00	-2.73	98418.890	3.5	101988.140	2.5
2801.0548	23.00	-1.92	34537.210	1.5	38106.320	2.5
2801.1098	17.00	-4.31	98419.100	2.5	101988.140	2.5
2801.2981	10.02	-3.35	353197.400	1.0	356766.200	1.0
2801.5964	9.02	-4.07	440202.480	2.5	443770.900	3.5
2801.6907	19.00	-1.33	28127.850	2.5	31696.150	1.5
2801.8085	9.02	-2.72	440359.260	3.5	443927.410	3.5
2801.8949	19.00	-1.17	28127.850	3.5	31695.890	2.5
2801.8949	19.00	-2.47	28127.850	2.5	31695.890	2.5
2801.9262	8.01	-.01	257693.700	.5	261261.700	1.5
2801.9734	24.00	-4.92	53804.840	3.0	57372.780	4.0
2801.9812	28.01	-2.28	114874.880	2.5	118442.810	1.5
2802.0126	9.00	-.91	126581.180	.5	130149.070	.5
2802.3425	9.00	-.18	130016.100	2.5	133583.570	2.5
2802.4760	7.00	-3.47	112868.700	3.5	116436.000	2.5
2802.7039	6.01	.37	184074.590	1.5	187641.600	2.5
2802.7117	16.00	-3.12	78269.200	4.0	81836.200	3.0
2802.7117	16.00	-1.94	78269.200	4.0	81836.200	4.0
2802.7117	16.00	-1.08	78269.200	4.0	81836.200	5.0
2802.7982	28.01	-4.97	131103.180	2.5	134670.070	1.5
2802.9554	10.01	-.72	304440.240	.5	308006.930	.5
2803.0417	16.00	-2.82	78769.620	2.0	81836.200	1.0
2803.0417	16.00	-1.82	78269.620	2.0	81836.200	2.0
2803.0417	16.00	-2.82	78269.620	3.0	81836.200	2.0
2803.0417	16.00	-1.44	78269.620	2.0	81836.200	3.0
2803.0417	16.00	-1.80	78269.620	3.0	81836.200	3.0
2803.0417	16.00	-1.24	78269.620	3.0	81836.200	4.0
2803.1204	28.01	-4.06	97799.660	1.5	101366.140	2.5
2803.1778	17.00	-2.89	92140.127	1.5	95706.534	1.5
2803.2462	6.01	.52	184075.280	2.5	187641.600	3.5
2803.2462	6.01	-.78	184075.280	2.5	187641.600	2.5
2803.2933	25.00	-4.79	59339.550	3.5	62905.810	2.5
2803.3798	18.00	-1.11	120207.770	4.0	123773.920	3.0
2803.4112	16.00	-1.97	78270.090	1.0	81836.200	1.0
2803.4112	16.00	-1.97	78270.090	0.0	81836.200	1.0
2803.4112	16.00	-1.67	78270.090	1.0	81836.200	2.0
2803.5449	27.00	-4.95	49197.740	4.5	52763.680	3.5
2803.6864	28.01	-3.32	121437.680	5.5	125003.440	5.5
2803.7414	28.01	-3.77	117662.110	1.5	121227.800	2.5
2803.9939	28.00	-1.01	50138.530	0.0	53703.899	1.0
2804.3549	28.01	-4.57	130815.910	3.5	134380.820	3.5
2804.4053	17.00	-3.27	90749.360	2.5	94314.206	1.5
2804.4493	27.00	-4.95	50593.380	4.5	54158.170	4.5
2804.6145	15.00	-.15	66360.120	1.5	69924.700	2.5
2804.7089	28.01	-2.03	130730.530	2.5	134294.990	2.5
2804.7168	9.00	-1.05	130059.400	.5	133623.850	1.5
2804.8655	7.00	-2.62	110710.739	2.5	114275.000	3.5
2804.8671	17.00	-3.59	97666.650	4.5	101230.909	3.5
2804.9292	14.00	-2.03	59032.140	2.0	62596.320	2.0
2804.9450	23.00	-6.27	14949.300	4.5	18513.460	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2805.0788	7.00	-.30	106758.731	.5	110322.721	1.5
2805.2205	18.01	-3.26	196315.510	2.5	199879.320	3.5
2805.2551	22.00	-4.76	25388.334	4.0	28952.100	4.0
2805.5905	28.01	-2.54	130691.350	1.5	134254.690	1.5
2805.6377	6.00	-1.57	84935.340	1.0	88498.620	2.0
2805.6527	7.00	-3.27	110710.739	2.5	114274.000	2.5
2805.6991	7.00	-1.76	111326.798	2.5	114890.000	1.5
2805.7669	10.00	-4.91	169502.284	3.0	173065.400	2.0
2805.7669	10.00	-4.91	169502.284	3.0	173065.400	2.0
2805.7716	7.00	-4.37	112877.890	3.5	116441.000	2.5
2805.8031	14.00	-3.22	58786.860	3.0	62349.930	2.0
2805.9921	27.00	-4.80	52014.450	1.5	55577.280	1.5
2806.1102	72.00	-2.78	38544.380	3.0	42107.060	4.0
2806.1669	26.00	-2.88	47136.058	2.0	50698.666	2.0
2806.1835	17.00	-4.20	95706.534	1.5	99269.121	2.5
2806.5041	18.01	-.42	192556.840	2.5	196119.020	3.5
2806.6460	15.00	-4.38	74271.800	1.5	77833.800	1.5
2806.7539	28.00	-2.72	50689.490	2.0	54251.353	3.0
2806.8429	23.00	-3.73	37025.600	3.5	40587.350	3.5
2806.8902	25.00	-4.50	51718.220	1.5	55279.910	1.5
2807.0951	22.00	-4.62	35652.950	3.0	39214.380	3.0
2807.1976	9.00	-.87	130016.100	2.5	133577.400	1.5
2807.3159	18.01	-1.27	199446.540	.5	203007.690	1.5
2807.6233	20.00	-2.01	42919.053	2.0	46479.813	1.0
2807.6391	18.01	-1.43	196119.020	3.5	199679.760	2.5
2807.8283	7.00	-3.58	112880.500	2.5	116441.000	2.5
2807.8520	9.00	-.30	126581.180	.5	130141.650	1.5
2807.9072	17.01	-4.68	154616.700	0.0	158177.100	1.0
2807.9798	7.00	-1.05	103622.480	.5	107182.788	1.5
2808.2779	6.00	-4.22	84984.970	3.0	88544.900	3.0
2808.3016	29.01	-3.89	114511.440	1.0	118071.340	1.0
2808.3426	7.00	-3.96	110715.152	3.5	114275.000	3.5
2808.7750	17.01	-4.42	154617.800	1.0	158177.100	1.0
2808.9170	28.01	-4.48	132729.480	2.5	136288.600	2.5
2808.9328	15.00	-4.30	77843.300	1.5	81402.400	2.5
2808.9565	27.00	-1.90	45924.980	3.5	49484.050	3.5
2809.1317	7.00	-3.88	110715.152	3.5	114274.000	2.5
2809.2643	26.02	-2.06	198333.760	6.0	201892.440	5.0
2809.4064	15.00	-4.37	77843.900	2.5	81402.400	2.5
2809.4459	18.00	-4.77	120250.150	3.0	123808.600	2.0
2809.5091	28.01	-4.87	130691.350	1.5	134249.720	1.5
2809.5091	6.00	-4.73	80562.850	1.0	84121.220	0.0
2809.5249	28.01	-2.98	133031.000	4.5	136589.350	3.5
2809.6709	22.00	-3.01	33980.639	2.0	37538.804	2.0
2809.7143	7.00	-2.57	112877.890	3.5	116436.000	2.5
2809.8644	7.00	-.94	106477.800	.5	110035.720	.5
2809.9434	24.00	-3.60	51246.870	1.0	54804.690	1.0
2810.1962	17.01	-4.54	154619.600	2.0	158177.100	1.0
2810.6307	9.00	-1.05	130374.860	1.5	133931.810	2.5
2810.7357	17.00	-1.97	97674.092	3.5	101230.909	3.5
2810.9239	17.00	-3.50	97674.330	2.5	101230.909	3.5
2811.0417	6.00	-4.44	84984.970	3.0	88541.400	2.0
2811.0653	24.00	-3.79	53804.840	3.0	57361.240	3.0
2811.0654	8.01	.03	257797.900	1.5	261354.300	2.5
2811.0891	27.00	-3.93	41225.760	4.5	44782.130	4.5
2811.2772	7.00	-4.65	111501.368	1.5	115057.500	1.5
2811.3341	28.01	-2.88	112719.750	3.5	116275.810	3.5
2811.4338	17.00	-3.60	97667.396	3.5	101223.330	2.5
2811.4764	25.00	-4.62	59527.360	.5	63083.240	1.5
2811.4922	26.02	-3.10	198336.580	5.0	201892.440	5.0
2811.5397	9.02	-.17	440069.510	1.5	443625.310	2.5
2811.7769	7.00	-2.65	112880.500	2.5	116436.000	1.5
2811.7769	7.00	-3.06	112880.500	2.5	116436.000	2.5
2811.7769	38.01	.30	71065.800	0.0	74622.270	0.0
2811.8560	7.00	-2.75	112946.600	1.5	116502.000	.5
2811.8560	7.00	-3.33	112946.600	.5	116502.000	.5
2811.8560	7.00	-4.16	112946.600	1.5	116502.000	1.5
2811.8892	14.00	-2.45	59110.892	2.0	62666.250	1.0
2811.9351	17.01	-2.93	147125.700	3.0	150681.000	2.0
2812.0506	17.00	-3.27	92151.380	.5	95706.534	1.5
2812.6629	18.00	-1.46	121096.670	0.0	124651.050	1.0
2812.6732	26.00	-3.77	44676.963	4.0	48231.330	5.0
2812.7420	6.00	-1.59	78215.510	3.0	81769.790	2.0
2812.9083	9.02	.09	440359.260	3.5	443913.330	4.5
2812.9557	9.00	-1.67	130059.400	.5	133613.410	.5
2813.1061	26.02	-4.50	198338.620	4.0	201892.440	5.0
2813.5653	6.00	-.99	80562.850	1.0	84116.090	1.0
2813.6888	26.00	-4.91	51825.758	3.0	55378.842	2.0
2813.7870	29.01	-.93	135664.340	1.0	139217.300	2.0
2814.3416	18.01	-1.15	204929.400	.5	208481.660	.5
2814.3891	19.00	-1.79	30185.240	2.5	33737.440	1.5
2814.5475	17.01	-2.26	150019.000	0.0	153571.000	1.0
2814.6426	26.02	-2.25	219162.420	6.0	222714.300	6.0
2814.7852	19.00	-2.75	30185.740	1.5	33737.440	1.5
2814.7876	14.00	-2.68	59118.030	3.0	62669.727	2.0
2814.8645	10.01	-3.24	303518.210	1.5	307069.810	1.5
2815.1023	26.00	-4.05	48516.150	1.0	52067.450	2.0
2815.1253	22.00	-2.59	18037.225	4.0	21588.496	4.0
2815.1261	15.00	-.70	66343.330	.5	69894.600	1.5
2815.1474	17.00	-3.76	97338.887	2.5	100890.130	2.5
2815.2220	14.00	-1.03	59118.030	3.0	62669.179	4.0
2815.2339	14.00	-1.58	59118.030	3.0	62669.164	3.0
2815.3655	17.00	-.88	97338.887	2.5	100889.855	3.5
2815.4512	19.00	-2.05	30185.740	1.5	33736.600	.5
2815.4988	15.00	-.77	76875.400	1.5	80426.200	1.5
2815.6732	9.02	-2.27	440202.480	2.5	443753.060	2.5
2815.7906	18.00	-1.55	121932.908	1.0	125483.340	2.0
2816.2974	14.00	-2.11	59118.030	3.0	62667.823	3.0
2816.3482	18.00	-2.39	121165.431	3.0	124715.160	3.0
2816.7378	17.00	-1.28	97674.092	3.5	101223.330	2.5
2816.7957	26.00	-4.92	47755.485	3.0	51304.650	4.0
2816.9267	17.00	-2.22	97674.330	2.5	101223.330	2.5
2817.2800	14.00	-2.95	60815.925	2.0	64364.480	2.0
2817.4189	23.00	-3.02	38106.320	2.5	41654.700	2.5
2817.4268	24.00	-2.77	45113.220	3.0	48661.590	3.0
2817.5134	7.00	-4.02	110710.739	2.5	114259.000	1.5
2817.5142	6.00	-2.35	84950.360	2.0	88498.620	2.0
2817.7182	7.00	-.08	106814.459	2.5	110362.462	3.5
2817.7206	25.00	-3.95	51638.170	2.5	55186.170	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2817.7262	7.00	-3.93	112294.007	.5	115842.000	1.5
2817.9192	28.01	-4.83	118314.820	2.5	121862.570	3.5
2818.0780	14.00	-4.42	60704.530	3.0	64252.080	2.0
2818.4070	22.00	-1.17	18192.577	6.0	21739.713	5.0
2818.6183	18.00	-1.76	121096.670	0.0	124643.540	1.0
2819.0316	27.00	-2.83	43199.650	2.5	46746.000	2.5
2819.1509	12.01	-1.25	112301.470	3.5	115847.670	3.5
2819.1509	12.01	.29	112301.470	3.5	115847.670	4.5
2819.1509	12.01	.18	112301.470	2.5	115847.670	3.5
2819.3767	26.00	-3.23	44415.057	4.0	47960.973	4.0
2819.3822	28.00	-2.94	47208.228	1.0	50754.137	2.0
2819.4498	18.00	0.00	114861.670	0.0	118407.494	1.0
2819.5325	26.00	-4.47	52180.820	1.0	55726.540	0.0
2819.5484	15.01	-.69	127368.000	2.0	130913.700	3.0
2819.6900	14.00	-2.21	60706.558	1.0	64252.080	2.0
2820.0018	28.01	-4.06	119889.470	5.5	123434.600	4.5
2820.2245	22.00	-4.75	35757.510	4.0	39302.360	4.0
2820.2484	6.00	-3.25	85625.180	0.0	89170.000	1.0
2820.3995	9.00	-2.53	130374.860	1.5	133919.490	1.5
2820.5953	7.00	-2.15	106778.337	1.5	110322.721	1.5
2820.6621	7.00	-4.05	112957.700	2.5	116502.000	1.5
2820.6621	7.00	-3.63	112957.700	1.5	116502.000	.5
2820.8134	18.00	-3.12	120229.810	3.0	123773.920	3.0
2821.0203	18.00	-3.12	120230.070	2.0	123773.920	3.0
2821.0283	28.01	-4.45	130710.850	.5	134254.690	1.5
2821.5952	28.00	-1.12	51124.800	3.0	54667.928	4.0
2821.7528	38.01	.80	67522.870	0.0	71066.767	0.0
2822.0555	28.01	-4.96	133190.190	1.5	136732.740	1.5
2822.2125	37.00	-1.04	26311.437	0.0	29854.756	0.0
2822.2475	20.00	-.83	44989.830	2.0	48532.139	3.0
2822.3503	18.01	-.78	199959.620	2.5	203501.800	2.5
2822.9002	14.00	-4.09	60856.630	1.0	64398.120	2.0
2822.9241	20.00	-1.67	44989.830	2.0	48531.290	2.0
2822.9241	20.00	-.75	44989.830	2.0	48531.290	3.0
2823.0277	9.00	-.30	130016.100	2.5	133557.430	2.5
2823.4503	15.00	-.69	72884.400	2.5	76425.200	2.5
2823.6975	12.01	-1.28	112307.790	4.5	115848.280	4.5
2823.6975	12.01	.46	112307.790	4.5	115848.280	5.5
2823.6975	12.01	.37	112307.790	3.5	115848.280	4.5
2823.6975	14.00	-.91	54257.582	3.0	57798.072	2.0
2823.7294	17.00	-3.42	84648.100	2.5	88188.550	1.5
2823.7462	14.00	-4.31	61303.381	3.0	64843.810	4.0
2823.7741	18.00	-.20	113643.260	1.0	117183.654	2.0
2823.8890	6.00	-3.33	80562.850	1.0	84103.100	2.0
2824.0086	7.00	-2.28	112826.900	2.5	116367.000	1.5
2824.0086	7.00	-3.24	112826.900	2.5	116367.000	2.5
2824.0086	7.00	-2.18	112826.900	3.5	116367.000	2.5
2824.0086	7.00	-3.29	112826.900	3.5	116367.000	3.5
2824.2160	9.00	-3.82	126067.230	.5	129607.070	.5
2824.2384	14.00	-3.87	59056.508	1.0	62596.320	2.0
2824.3676	22.00	-4.64	37654.770	2.0	41194.420	3.0
2824.4394	6.00	-2.67	85625.180	0.0	89164.740	1.0
2824.5192	28.01	-3.82	116732.510	2.5	120271.970	2.5
2824.8449	26.00	-4.77	47831.132	2.0	51370.184	2.0
2825.0061	14.00	-2.22	60704.530	3.0	64243.380	2.0
2825.1977	12.01	-3.21	112309.060	4.5	115847.670	4.5
2825.1977	12.01	-1.48	112309.060	5.5	115847.670	4.5
2825.1977	12.01	-1.57	112309.060	4.5	115847.670	3.5
2825.3494	24.00	-4.07	45286.080	4.0	48824.500	4.0
2825.5195	28.00	-1.64	47139.392	2.0	50677.599	3.0
2825.7167	26.02	-2.55	202156.130	2.0	205694.090	1.0
2825.9907	18.00	-1.75	119683.113	2.0	123220.730	2.0
2826.0858	26.00	-4.13	39625.784	4.0	43163.282	4.0
2826.1608	7.00	-2.94	111271.596	.5	114809.000	.5
2826.2280	18.00	-1.57	119847.810	1.0	123385.130	0.0
2826.2751	7.00	-3.10	110710.739	2.5	114248.000	3.5
2826.4038	15.00	-1.69	76762.400	.5	80299.500	1.5
2826.4062	14.00	-2.71	61306.713	4.0	64843.810	4.0
2826.4102	22.00	-2.90	38451.298	2.0	41988.390	3.0
2826.6259	14.00	-1.63	60706.558	1.0	64243.380	2.0
2826.6355	12.01	-2.72	112307.790	3.5	115844.600	3.5
2826.6355	12.01	-1.17	112307.790	4.5	115844.600	3.5
2826.6355	12.01	-1.28	112307.790	3.5	115844.600	2.5
2826.7474	26.02	-2.55	219162.420	6.0	222699.090	5.0
2826.7714	17.00	-1.51	91127.030	2.5	94663.670	1.5
2826.8786	18.00	-1.23	120600.944	2.0	124137.450	2.0
2826.9569	28.00	-.42	48735.308	2.0	52271.716	2.0
2827.0064	18.00	.10	120600.944	2.0	124137.290	3.0
2827.0432	28.01	-3.56	116732.510	2.5	120268.810	3.5
2827.2247	17.00	-1.03	97354.057	1.5	100890.130	2.5
2827.3350	14.00	-2.63	60815.925	2.0	64351.860	1.0
2827.3430	14.00	-3.96	60815.925	2.0	64351.850	3.0
2827.6588	9.00	-1.63	130374.860	1.5	133910.390	.5
2827.8029	28.01	-3.56	130751.030	5.5	134286.380	4.5
2827.9269	7.00	-3.68	112319.805	1.5	115855.000	2.5
2827.9605	18.00	-2.08	121068.804	1.0	124603.957	2.0
2828.0508	27.00	-2.68	44782.130	4.5	48317.170	3.5
2828.1788	10.00	-3.71	169814.630	2.0	173349.510	3.0
2828.2109	10.00	-4.58	169814.630	2.0	173349.470	2.0
2828.2461	18.00	-2.02	120600.944	2.0	124135.740	3.0
2828.3596	14.00	-1.95	60848.946	4.0	64383.600	4.0
2828.4149	7.00	.09	106868.635	3.5	110403.220	3.5
2828.4941	28.00	-2.98	45418.858	2.0	48953.344	1.0
2828.4989	15.00	-.65	66360.120	1.5	69894.600	1.5
2828.5629	8.01	-4.98	252608.900	3.5	256143.300	3.5
2828.8191	28.01	-3.29	115565.980	2.5	119100.060	1.5
2828.8359	26.00	-2.25	46889.126	4.0	50423.185	4.0
2829.1072	25.00	-4.15	56567.930	1.5	60101.650	2.5
2829.1184	17.00	-2.94	90948.530	1.5	94482.236	2.5
2829.1473	26.00	-4.94	48516.150	1.0	52049.820	2.0
2829.4195	18.01	-3.45	192333.430	.5	195866.760	1.5
2829.5316	21.00	-3.60	33615.060	1.5	37148.250	1.5
2829.6598	18.01	-3.35	192556.840	2.5	196089.870	2.5
2829.7719	28.01	-3.96	116512.060	3.5	120044.950	4.5
2829.8056	7.00	-2.98	110715.152	3.5	114248.000	3.5
2829.9072	7.00	-1.14	106868.635	3.5	110401.356	2.5
2829.9505	17.00	-1.16	97338.887	2.5	100871.554	3.5
2829.9593	26.00	-4.69	48304.623	2.0	51837.279	3.0
2830.0547	20.00	-4.39	43933.477	1.0	47466.014	2.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
2830.4048	7.00	-3.10	112826.900	2.5	116359.000	2.5
2830.4048	7.00	-3.40	112826.900	3.5	116359.000	2.5
2830.4048	7.00	-4.62	112826.900	3.5	116359.000	3.5
2830.4609	24.00	-4.18	51286.520	2.0	54818.550	2.0
2830.7045	26.00	-2.79	47929.981	4.0	51461.707	4.0
2831.1126	12.00	-2.29	57204.163	3.0	60735.380	2.0
2831.1126	12.00	-3.47	57204.163	3.0	60735.380	3.0
2831.1206	14.00	-3.54	60487.103	1.0	64018.310	1.0
2831.1559	18.00	-2.24	121257.227	1.0	124788.390	1.0
2831.2024	12.00	-3.41	57204.275	2.0	60735.380	2.0
2831.2024	12.00	-2.51	57204.275	2.0	60735.380	1.0
2831.2024	12.00	-4.78	57204.275	2.0	60735.380	3.0
2831.2024	12.00	-3.63	57204.275	3.0	60735.380	3.0
2831.2024	12.00	-2.18	57204.275	4.9	60735.380	3.0
2831.4156	18.00	-.19	113468.550	2.0	116999.389	2.0
2831.5833	28.01	-2.65	130751.030	5.5	134281.660	5.5
2831.7437	28.01	-4.70	130331.780	1.5	133862.210	1.5
2831.7677	15.00	-2.94	75689.200	1.5	79219.600	.5
2831.7838	28.01	-3.47	115785.060	1.5	119315.440	2.5
2831.9627	7.00	-2.39	110715.152	3.5	114245.309	4.5
2832.3053	28.01	-3.84	130765.260	3.5	134294.990	2.5
2832.3695	28.01	-2.15	134252.850	3.5	137782.500	4.5
2832.4096	28.01	-2.88	116786.420	.5	120316.020	.5
2832.5540	21.00	-4.66	15041.980	3.5	18571.400	2.5
2832.6728	16.00	-1.41	76655.408	2.0	80184.680	1.0
2832.9955	28.01	-2.61	130757.510	4.5	134286.380	4.5
2833.2307	17.00	-4.19	94314.206	1.5	97842.783	1.5
2833.3408	9.00	-1.08	130016.100	2.5	133544.540	3.5
2833.6700	28.01	-4.17	100619.260	4.5	104147.290	5.5
2833.8548	15.00	-.48	72493.800	1.5	76021.600	1.5
2833.9913	14.00	-2.96	58893.400	3.0	62421.030	3.0
2834.1360	16.00	-1.24	76655.380	3.0	80182.830	2.0
2834.1585	16.00	-2.14	76655.408	2.0	80182.830	2.0
2834.2476	37.00	-1.62	27835.020	0.0	31363.293	0.0
2834.4976	19.02	-4.03	237512.000	2.5	241039.000	1.5
2834.5514	17.00	-1.55	97338.887	2.5	100865.820	2.5
2834.5578	26.00	-4.27	47452.702	4.0	50979.627	4.0
2834.5940	28.01	-1.47	121476.560	6.5	125003.440	5.5
2834.8279	18.00	-3.25	121165.431	3.0	124692.020	2.0
2834.8753	23.00	-2.09	34477.400	.5	38003.930	1.5
2834.9212	17.00	-2.89	97338.887	2.5	100865.360	1.5
2835.2210	17.00	-2.08	98419.100	2.5	101945.200	1.5
2835.2484	16.00	-1.08	76655.374	4.0	80181.440	3.0
2835.2532	16.00	-2.14	76655.380	3.0	80181.440	3.0
2835.2757	16.00	-3.68	76655.408	2.0	80181.440	3.0
2835.3416	28.01	-3.23	130331.780	1.5	133857.730	.5
2835.3625	17.00	-4.76	97667.396	3.5	101193.320	4.5
2835.4864	26.00	-4.32	47693.289	3.0	51219.059	3.0
2835.5507	24.00	-3.90	37883.340	2.0	41409.030	2.0
2835.6376	28.00	-1.43	48671.900	3.0	52197.482	3.0
2835.6690	18.00	-1.54	121257.227	1.0	124782.770	1.0
2835.6875	28.01	-4.08	130730.530	2.5	134256.050	2.5
2835.7727	18.00	-4.48	118407.494	1.0	121932.908	1.0
2836.2088	26.00	-4.85	44511.795	2.0	48036.667	2.0
2836.5322	9.00	-2.28	129484.660	1.5	133009.130	.5
2836.5484	28.01	.47	134597.430	5.5	138121.880	4.5
2836.7738	6.00	-2.43	85625.180	0.0	89149.350	1.0
2836.7818	28.01	-2.36	130730.530	2.5	134254.690	1.5
2836.7898	28.01	-2.38	130757.510	4.5	134281.660	5.5
2836.8300	7.00	-2.75	112826.900	2.5	116351.000	1.5
2836.8615	22.00	-2.60	34327.960	1.0	37852.021	1.0
2836.9186	17.00	-3.43	97703.640	1.5	101227.630	.5
2836.9589	14.01	-.71	119311.450	3.5	122835.390	3.5
2836.9589	14.01	.83	119311.450	3.5	122835.390	4.5
2836.9669	27.00	-3.28	48546.070	1.5	52070.000	2.5
2837.0797	14.01	.72	119311.600	2.5	122835.390	3.5
2837.0958	18.00	-1.95	120250.150	3.0	123773.920	3.0
2837.0958	18.00	-2.55	120250.150	4.0	123773.920	3.0
2837.1521	28.01	-1.21	134252.850	3.5	137776.550	3.5
2837.2407	28.01	-4.56	130751.030	5.5	134274.620	5.5
2837.3107	37.00	-1.47	26311.437	0.0	29835.901	0.0
2837.4291	7.00	-2.25	111285.644	1.5	114809.000	.5
2837.5226	18.00	-2.60	121191.920	2.0	124715.160	3.0
2837.9438	18.00	-.92	119683.113	2.0	123205.830	3.0
2838.2637	28.01	-2.07	130730.530	2.5	134252.850	3.5
2838.3644	7.00	-4.63	112319.805	1.5	115842.000	1.5
2838.5603	14.00	-3.86	60496.358	2.0	64018.310	1.0
2838.6022	13.01	-1.08	145185.000	1.0	148706.900	0.0
2838.8141	7.00	-3.52	106778.337	1.5	110299.974	2.5
2838.9560	7.00	-4.93	110710.739	2.5	114232.200	1.5
2838.9600	26.00	-2.66	47177.210	1.0	50698.666	2.0
2839.0374	25.00	-4.82	59384.450	1.5	62905.810	2.5
2839.1100	28.01	-3.31	119913.330	4.5	123434.600	4.5
2839.2309	28.01	-3.06	130765.260	3.5	134286.380	4.5
2839.4002	6.00	-4.78	83820.130	1.0	87341.040	0.0
2839.6826	28.01	-4.62	130751.030	5.5	134271.590	4.5
2839.7310	28.01	-3.09	134256.050	2.5	137776.550	3.5
2839.7793	6.00	.08	78731.270	1.0	82251.710	0.0
2839.7850	14.00	.20	56780.427	1.0	60300.860	2.0
2839.7874	28.01	-2.41	134262.070	3.5	137782.500	4.5
2839.8213	12.00	-4.31	57214.992	1.0	60735.380	2.0
2839.8358	22.00	-4.23	43674.310	4.0	47194.680	4.0
2839.8705	17.00	-3.57	90948.530	1.5	94468.857	.5
2840.2473	18.01	-3.92	199981.940	1.5	203501.800	2.5
2840.2642	17.00	-4.67	91660.580	2.5	95180.419	3.5
2840.2957	15.00	-1.86	75699.800	.5	79219.600	.5
2840.4974	18.01	-2.35	192556.840	2.5	196076.390	1.5
2840.6274	17.00	-4.25	97703.941	2.5	101223.330	2.5
2840.7880	28.01	-3.66	130730.530	2.5	134249.720	1.5
2840.9414	15.00	-.57	72386.100	2.5	75905.100	2.5
2840.9495	17.00	-4.84	97674.330	2.5	101193.320	3.5
2841.2482	18.01	-1.77	196633.020	2.5	200151.640	1.5
2841.3047	20.01	-2.62	86781.140	3.5	90299.690	3.5
2841.3047	20.01	-1.08	86781.140	4.5	90299.690	3.5
2841.3047	20.01	-1.19	86781.140	3.5	90299.690	2.5
2841.4469	18.00	-1.09	120619.076	2.0	124137.450	2.0
2841.5067	26.02	-2.91	219092.860	5.0	222611.160	5.0
2841.5374	12.00	-1.65	57017.078	0.0	60535.340	1.0
2841.5479	17.00	-1.17	97712.660	4.5	101230.909	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2841.5761	18.00	-3.19	120619.076	2.0	124137.290	3.0
2841.6116	24.00	-4.70	51286.520	2.0	54804.690	1.0
2841.7000	3.00	-.65	36470.000	0.0	39989.020	0.0
2841.7086	24.00	-3.36	45306.450	5.0	48824.500	4.0
2841.7490	9.00	-2.43	130059.400	.5	133577.400	1.5
2841.9364	20.00	-2.97	42743.002	1.0	46260.770	2.0
2841.9848	18.00	-4.70	121270.682	2.0	124788.390	1.0
2842.0074	18.01	-1.15	199679.760	2.5	203197.440	3.5
2842.0236	28.01	-3.87	116732.510	2.5	120250.170	3.5
2842.0592	12.00	-1.77	57017.724	1.0	60535.340	1.0
2842.0592	12.00	-1.47	57017.724	1.0	60535.340	2.0
2842.1772	9.00	-1.18	130141.650	1.5	133659.120	.5
2842.3428	26.00	-2.53	47017.170	3.0	50534.435	3.0
2842.4147	14.00	-2.74	58801.524	1.0	62318.700	0.0
2842.4519	23.00	-3.21	34486.800	2.5	38003.930	1.5
2842.4681	28.01	-3.50	130757.510	4.5	134274.620	5.5
2842.5085	25.00	.33	47387.620	3.5	50904.680	2.5
2842.7146	22.00	-1.62	37824.748	4.0	41341.553	5.0
2842.7469	18.00	-2.11	113426.050	2.0	116942.815	3.0
2842.8286	18.00	.07	120619.076	2.0	124135.740	3.0
2842.8722	21.00	-4.35	33056.190	3.5	36572.800	2.5
2843.0210	22.00	-3.82	37852.434	4.0	41368.860	4.0
2843.0905	28.01	-.80	134238.440	6.5	137754.780	5.5
2843.1107	12.00	-2.95	57019.025	2.0	60535.340	1.0
2843.1107	12.00	-1.94	57019.025	2.0	60535.340	2.0
2843.1107	12.00	-1.02	57019.025	2.0	60535.340	3.0
2843.2280	28.01	-4.06	130751.030	5.5	134267.200	6.5
2843.2280	25.00	-4.80	59116.600	2.5	62632.770	3.5
2843.3218	20.00	-1.80	42744.716	2.0	46260.770	2.0
2843.3848	26.00	-3.69	47834.529	5.0	51350.505	4.0
2843.3897	18.01	-1.74	189040.870	1.5	192556.840	2.5
2843.4059	23.00	-3.06	38242.460	3.5	41758.410	3.5
2843.6064	26.00	-3.65	48238.832	2.0	51754.534	1.0
2843.6420	7.00	-2.10	103667.130	1.5	107182.788	1.5
2843.6631	7.00	-2.37	111501.368	1.5	115017.000	.5
2843.6841	20.00	-.40	43933.477	1.0	47449.083	2.0
2843.8669	24.00	-3.62	44186.920	2.0	47702.300	3.0
2843.8685	20.00	-1.80	42743.002	1.0	46258.380	1.0
2844.2148	25.00	-3.76	59568.290	.5	63083.240	1.5
2844.5070	26.00	-3.40	47008.351	5.0	50522.940	6.0
2844.5709	28.01	.36	134607.370	4.5	138121.880	4.5
2844.5952	28.01	-3.67	134262.070	3.5	137776.550	3.5
2844.6251	18.00	-2.23	121257.227	1.0	124771.670	2.0
2844.6437	26.00	-4.60	51365.300	3.0	54879.720	2.0
2844.9190	28.01	-3.82	130757.510	4.5	134271.590	4.5
2844.9594	24.00	-3.83	44186.920	2.0	47700.950	2.0
2845.0242	22.00	-1.85	38670.710	4.0	42184.660	4.0
2845.2105	9.00	-.75	129484.660	1.5	132998.380	1.5
2845.2557	20.00	-1.32	42744.716	2.0	46258.380	1.0
2845.4834	20.00	-1.05	42747.387	3.0	46260.770	2.0
2845.5425	24.00	-4.26	35398.020	4.0	38911.330	3.0
2845.5830	24.00	-3.01	44186.920	2.0	47700.180	1.0
2845.8260	26.02	-4.17	219092.860	5.0	222605.820	4.0
2845.8260	14.00	-1.95	59032.140	2.0	62545.100	1.0
2846.0528	26.00	-1.39	50901.060	2.0	54413.740	3.0
2846.3251	17.00	-1.79	92194.190	1.5	95706.534	1.5
2846.5326	18.00	-1.81	121270.682	2.0	124782.770	1.0
2846.7741	18.01	-4.28	200406.360	.5	203918.150	1.5
2846.7960	17.00	-.41	97354.057	1.5	100865.820	2.5
2846.8390	23.00	-3.15	37075.640	4.5	40587.350	3.5
2846.9362	28.01	-2.90	51045.460	4.5	54557.050	4.5
2846.9890	14.00	-1.51	57450.580	3.0	60962.105	2.0
2847.1551	10.00	-4.62	169839.450	1.0	173350.770	1.0
2847.1552	23.00	-3.44	34428.760	1.5	37940.080	.5
2847.1689	17.00	-1.22	97354.057	1.5	100865.360	1.5
2847.1876	10.00	-4.12	169748.150	1.0	173259.430	1.0
2847.2038	28.01	-4.89	131750.730	3.5	135261.990	4.5
2847.2525	28.01	-1.80	113321.950	4.5	116833.150	4.5
2847.4876	28.01	-1.63	134271.590	4.5	137782.500	4.5
2847.6012	27.00	-2.89	48753.720	1.5	52264.490	1.5
2847.6604	22.00	-3.84	25317.813	1.0	28828.510	2.0
2848.1642	22.00	-2.85	37659.927	3.0	41170.003	3.0
2848.1853	10.00	-4.07	169839.450	1.0	173349.500	2.0
2848.1853	9.00	-1.74	130149.070	.5	133659.120	.5
2848.2502	27.00	-3.47	45105.590	3.5	48615.560	2.5
2848.3833	18.00	-3.49	122282.134	2.0	125791.940	2.0
2848.5180	26.02	-2.34	219092.860	5.0	222602.500	6.0
2848.6560	15.00	-.69	66343.330	.5	69852.800	.5
2848.6966	9.02	-4.13	440359.260	3.5	443868.680	2.5
2848.7697	10.01	-3.51	318828.550	3.5	322337.880	2.5
2849.1756	10.01	-4.95	318828.550	3.5	322337.380	3.5
2849.2820	28.00	-1.41	47208.228	1.0	50716.927	1.0
2849.5735	22.00	-2.00	38544.380	3.0	42052.720	3.0
2849.6370	7.00	-2.51	106814.459	2.5	110322.721	1.5
2849.7465	18.00	.10	113643.260	1.0	117151.387	1.0
2849.8757	7.00	-.10	106778.337	1.5	110286.305	2.5
2849.9472	28.01	-1.46	134274.620	5.5	137782.500	4.5
2849.9716	14.00	-3.43	60856.630	1.0	64364.480	2.0
2850.0041	28.01	-2.15	115592.250	1.5	119100.060	1.5
2850.1763	14.00	-2.31	57798.072	2.0	61305.670	1.0
2850.3072	14.00	-.63	57198.027	3.0	60705.464	3.0
2850.3941	28.01	.17	134614.550	5.5	138121.880	4.5
2850.4900	22.00	-1.96	38451.298	2.0	41958.510	2.0
2850.5729	10.00	-4.39	169748.150	1.0	173255.260	0.0
2850.7843	28.01	-4.81	96052.480	2.5	99559.330	2.5
2851.2071	28.01	-2.56	130765.260	3.5	134271.590	4.5
2851.2924	10.00	-1.80	169488.415	1.0	172994.640	2.0
2851.4023	13.02	.64	205375.740	.5	208881.830	1.5
2851.4998	26.00	-1.69	43499.485	4.0	47005.455	5.0
2851.7601	10.00	-4.94	169843.820	2.0	173349.470	2.0
2851.8130	28.00	-2.34	47328.850	2.0	50834.435	2.0
2852.1262	28.01	-3.72	133014.080	5.5	136519.280	4.5
2852.3134	18.00	-.62	119212.930	3.0	122717.900	3.0
2852.3134	18.00	-.80	119212.930	3.0	122717.900	4.0
2852.3215	28.01	-2.58	134271.590	4.5	137776.550	3.5
2852.3866	24.00	-4.85	48507.560	1.0	52012.440	2.0
2852.5820	6.00	-4.14	83497.620	2.0	87002.260	3.0
2852.6308	9.00	-.72	125877.280	1.5	129381.860	2.5
2852.6715	23.01	-4.44	69912.100	4.0	73416.630	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2852.6878	28.01	-1.37	134238.440	6.5	137742.950	5.5
2852.9157	28.01	-2.67	114874.880	2.5	118379.110	2.5
2852.9402	15.00	-2.68	76192.300	1.5	79696.500	1.5
2853.0370	18.00	-.79	115366.900	1.0	118870.981	0.0
2853.1079	20.00	-4.08	43933.477	1.0	47437.471	0.0
2853.3220	10.00	-1.08	159534.620	1.0	163038.351	2.0
2853.4556	14.00	-2.67	60487.103	1.0	63990.670	2.0
2853.6470	14.00	-3.29	60381.278	1.0	63884.610	1.0
2853.7635	28.00	-2.36	47328.850	2.0	50832.039	3.0
2853.8767	27.00	-2.83	43242.950	2.5	46746.000	2.5
2854.2000	2.00	-.85	190298.000	0.0	193801.609	0.0
2854.2026	38.01	.86	67563.150	0.0	71066.756	0.0
2854.2026	38.01	-.44	67563.150	0.0	71066.756	0.0
2854.2173	7.00	-1.30	111501.368	1.5	115004.000	2.5
2854.8221	28.01	-2.94	101144.630	3.5	104646.520	3.5
2854.8383	13.02	-.78	213737.440	2.5	217239.310	2.5
2854.8383	13.02	.52	213737.440	2.5	217239.310	3.5
2854.8383	13.02	.37	213737.440	1.5	217239.310	2.5
2855.0047	26.00	-3.69	47197.000	2.0	50698.666	2.0
2855.1156	27.00	-4.73	50925.110	1.5	54426.640	1.5
2855.2436	18.00	-1.72	119760.220	1.0	123261.593	2.0
2855.4401	26.00	-4.80	48238.832	2.0	51739.964	2.0
2855.5315	28.01	-2.46	134252.850	3.5	137753.870	4.5
2855.5576	18.00	-1.39	121270.682	2.0	124771.670	2.0
2855.6783	28.01	-1.00	134281.660	5.5	137782.500	4.5
2856.0454	28.01	-3.08	114942.420	1.5	118442.810	1.5
2856.2820	18.00	-2.11	121191.920	2.0	124692.020	2.0
2856.3343	8.00	-1.46	102412.007	1.0	105912.043	1.0
2856.3343	8.00	-1.23	102412.007	1.0	105912.043	2.0
2856.3343	8.00	-1.93	102412.007	1.0	105912.043	0.0
2856.4347	17.00	-1.86	84688.637	.5	88188.550	1.5
2856.7718	17.01	-3.73	128662.500	2.0	132162.000	3.0
2856.7800	25.00	-2.12	59731.940	4.5	63231.430	4.5
2857.1049	14.00	-3.76	59034.988	3.0	62534.080	4.0
2857.4250	13.01	-.95	146414.500	3.0	149913.200	2.0
2857.4250	13.01	-2.37	146414.500	3.0	149913.200	3.0
2857.4250	13.01	-3.80	146414.500	3.0	149913.200	4.0
2857.4250	13.01	-1.52	146414.500	4.0	149913.200	3.0
2857.4250	13.01	-.45	146414.500	4.0	149913.200	3.0
2857.4250	13.01	-2.24	146414.500	4.0	149913.200	4.0
2857.4250	13.01	-2.38	146414.500	4.0	149913.200	4.0
2857.4250	13.01	-.71	146414.500	5.0	149913.200	4.0
2857.7517	7.00	-4.53	112868.700	3.5	116367.000	2.5
2857.7517	7.00	-3.33	112868.700	3.5	116367.000	3.5
2858.2583	29.01	-1.53	118484.000	3.0	121981.680	2.0
2858.3809	28.01	-4.59	119315.440	2.5	122812.970	3.5
2858.4781	20.00	-3.57	44762.839	3.0	48260.250	3.0
2858.6800	18.00	-1.07	121161.356	1.0	124658.520	2.0
2858.6956	26.00	-2.93	47606.092	5.0	51103.237	5.0
2858.7062	20.00	-2.51	44763.118	4.0	48260.250	3.0
2858.7839	14.00	-2.18	59037.043	4.0	62534.080	4.0
2858.8958	15.00	-3.14	75905.100	2.5	79402.000	2.5
2858.9367	28.01	-2.58	135606.200	5.5	139103.050	5.5
2858.9694	28.01	-2.64	130765.260	3.5	134262.070	3.5
2858.9940	28.01	-2.65	134238.440	6.5	137735.220	6.5
2859.0185	28.01	-.70	135606.300	6.5	139103.050	5.5
2859.1248	26.00	-.96	50628.000	3.0	54124.620	4.0
2859.1412	18.00	-2.40	121653.400	3.0	125150.000	3.0
2859.1412	18.00	-1.09	121653.400	4.0	125150.000	3.0
2859.3374	20.00	-3.62	44762.620	2.0	48258.980	2.0
2859.4764	27.00	-4.86	49847.080	2.5	53343.270	1.5
2859.5165	20.00	-2.72	44762.839	3.0	48258.980	2.0
2859.5337	28.01	-1.46	134286.380	4.5	137782.500	4.5
2859.6073	10.01	-3.63	318841.850	3.5	322337.880	2.5
2859.6318	18.01	-4.92	200234.860	2.5	203730.860	1.5
2859.8936	18.00	-2.51	121654.320	3.0	125150.000	3.0
2859.8936	20.00	-2.88	44762.620	2.0	48258.300	1.0
2860.0409	18.01	.56	201608.820	3.5	205104.320	4.5
2860.0490	10.01	-3.60	318841.890	4.5	322337.380	3.5
2860.1063	18.00	-3.69	121654.580	2.0	125150.000	3.0
2860.1227	23.00	-1.19	34747.060	3.5	38242.460	3.5
2860.1718	28.01	-3.35	130757.510	4.5	134252.850	3.5
2860.2455	18.00	-1.73	119212.930	3.0	122708.180	2.0
2860.2618	14.00	-2.92	60856.630	1.0	64351.860	1.0
2860.3141	18.00	-2.50	122282.134	2.0	125777.300	1.0
2860.3927	27.00	-3.17	48546.070	1.5	52041.140	.5
2860.4337	24.00	-4.57	51176.880	0.0	54671.900	1.0
2860.4418	18.00	-1.41	119212.930	3.0	122707.940	3.0
2860.6383	18.00	-1.37	119760.220	1.0	123254.990	1.0
2860.8618	17.00	-2.55	98693.013	3.5	102187.510	2.5
2860.9412	7.00	-3.19	112946.600	.5	116441.000	.5
2860.9412	7.00	-3.49	112946.600	.5	116441.000	1.5
2860.9412	7.00	-2.97	112946.600	1.5	116441.000	.5
2860.9412	7.00	-3.67	112946.600	1.5	116441.000	1.5
2860.9412	7.00	-3.92	112946.600	1.5	116441.000	2.5
2861.0133	14.00	-2.13	60496.358	2.0	63990.670	2.0
2861.0312	17.00	-3.85	98693.220	2.5	102187.510	2.5
2861.1819	22.00	-4.99	25388.334	4.0	28882.440	3.0
2861.2196	13.02	.89	205387.770	1.5	208881.830	2.5
2861.2196	13.02	-.06	205387.770	1.5	208881.830	1.5
2861.2229	10.00	-3.72	168586.860	0.0	172080.916	1.0
2861.2302	18.00	.39	114975.070	1.0	118469.117	2.0
2861.3171	17.00	-3.17	91906.790	2.5	95400.731	2.5
2861.4103	7.00	-.85	106868.635	3.5	110362.462	3.5
2861.5144	13.01	-1.07	144638.900	2.0	148132.600	3.0
2861.5144	13.01	-1.98	144638.900	3.0	148132.600	3.0
2861.7192	14.00	-1.31	60300.860	2.0	63794.310	2.0
2861.8494	22.00	-4.61	18911.399	2.0	22404.690	3.0
2862.0846	10.00	-4.88	169501.636	4.0	172994.640	3.0
2862.0846	10.00	-4.29	169501.636	4.0	172994.640	3.0
2862.0846	10.00	-3.34	169501.636	4.0	172994.640	4.0
2862.1370	12.01	-2.14	112301.470	2.5	115794.410	2.5
2862.1370	12.01	-.84	112301.470	3.5	115794.410	2.5
2862.1370	12.01	-.99	112301.470	2.5	115794.410	1.5
2862.3501	15.00	-1.46	66360.120	1.5	69852.800	.5
2862.3665	14.00	-3.19	60300.860	2.0	63793.520	1.0
2862.6156	10.00	-2.44	169502.284	3.0	172994.640	2.0
2862.6156	10.00	-3.45	169502.284	3.0	172994.640	3.0
2862.6156	10.00	-4.81	169502.284	3.0	172994.640	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2862.7263	37.00	-1.38	27870.110	0.0	31363.284	0.0
2862.9157	25.00	-3.93	51787.920	.5	55279.910	1.5
2863.0714	28.01	-1.65	134262.070	3.5	137753.870	4.5
2863.8998	28.01	-2.91	130765.260	3.5	134256.050	2.5
2863.9326	27.00	-3.48	42434.230	2.5	45924.980	3.5
2864.2362	28.01	-4.66	116732.510	2.5	120222.890	1.5
2864.3019	7.00	-3.37	112868.700	3.5	116359.000	2.5
2864.3019	7.00	-2.96	112868.700	3.5	116359.000	3.5
2864.3429	9.00	-.05	126282.580	1.5	129772.830	2.5
2864.4086	28.01	-1.10	134286.380	4.5	137776.550	3.5
2864.4168	17.00	-.87	91173.510	1.5	94663.670	1.5
2864.5399	18.01	-4.13	200623.700	.5	204113.710	1.5
2864.7993	18.00	-1.77	121161.356	1.0	124651.050	1.0
2865.0407	7.00	-3.86	112946.600	.5	116436.000	1.5
2865.0407	7.00	-3.09	112946.600	1.5	116436.000	1.5
2865.0407	7.00	-4.20	112946.600	1.5	116436.000	2.5
2865.2706	7.00	-3.23	112877.880	4.5	116367.000	3.5
2865.2788	7.00	-2.39	112877.890	3.5	116367.000	2.5
2865.2788	7.00	-3.24	112877.890	3.5	116367.000	3.5
2865.3881	18.00	-1.38	119683.113	2.0	123172.090	1.0
2865.5383	26.00	-4.91	46889.126	4.0	50377.920	5.0
2865.5580	23.00	-8.66	14949.300	4.5	18438.070	4.5
2865.6155	13.01	-.42	145185.000	1.0	148673.700	1.0
2865.6155	13.01	-.11	145185.000	2.0	148673.700	1.0
2865.6155	13.01	-.81	145185.000	0.0	148673.700	1.0
2865.7043	14.00	-2.55	59056.508	1.0	62545.100	1.0
2865.7059	17.00	-3.14	97739.040	.5	101227.630	.5
2865.9359	17.00	-2.84	97739.320	1.5	101227.630	.5
2866.1413	28.01	-2.76	100592.980	3.5	104081.040	4.5
2866.4372	13.01	-.31	135009.000	0.0	138496.700	1.0
2866.5276	28.01	-3.18	130765.260	3.5	134252.850	3.5
2866.5358	28.01	-1.38	134267.200	6.5	137754.780	5.5
2866.5851	14.00	-1.17	59032.140	2.0	62519.660	2.0
2866.6755	28.01	-1.92	130751.030	5.5	134238.440	6.5
2866.7660	17.01	-2.54	147605.700	3.0	151093.000	3.0
2866.8564	27.00	-3.96	48546.070	1.5	52033.260	1.5
2867.1770	23.00	-1.51	34619.520	2.5	38106.320	2.5
2867.2839	28.01	-2.83	113407.310	2.5	116893.980	2.5
2867.3152	7.00	-2.68	111501.368	1.5	114988.000	.5
2867.3152	7.00	-1.84	111501.368	1.5	114988.000	1.5
2867.3152	7.00	-1.80	111501.368	1.5	114988.000	2.5
2867.4237	7.00	-4.04	112880.500	2.5	116367.000	3.5
2867.4632	7.00	-1.92	106758.731	.5	110245.183	.5
2867.7239	18.00	-2.11	121068.804	1.0	124554.939	1.0
2867.7445	25.00	-2.13	52870.100	3.5	56356.210	3.5
2867.7708	10.00	-1.56	169508.562	2.0	172994.640	2.0
2867.7708	10.00	-2.76	169508.562	2.0	172994.640	3.0
2867.8433	17.00	-3.54	98372.970	1.5	101858.960	2.5
2868.2217	17.00	-2.41	98373.430	2.5	101858.960	2.5
2868.2300	28.01	-4.03	118314.820	2.5	121800.340	1.5
2868.2341	7.00	-.64	106814.459	2.5	110299.974	2.5
2868.3764	26.00	-3.21	44551.325	3.0	48036.667	2.0
2868.4110	19.02	-4.37	242526.700	.5	246012.000	1.5
2868.4357	28.01	-3.25	113408.710	1.5	116893.980	2.5
2868.6168	28.01	-2.36	130801.330	4.5	134286.380	4.5
2868.7979	29.01	-1.58	133727.870	2.0	137212.700	1.0
2868.9543	28.01	-1.85	116312.340	1.5	119796.980	2.5
2868.9872	13.01	-.31	135012.100	1.0	138496.700	1.0
2868.9938	18.00	-.01	114975.070	1.0	118459.662	1.0
2869.2071	14.00	-2.09	57372.297	2.0	60856.630	1.0
2869.2721	14.00	-.64	54313.818	1.0	57798.072	2.0
2869.3842	18.00	-2.24	121165.431	3.0	124649.549	3.0
2869.4402	19.00	-4.70	30617.310	3.5	34101.360	3.5
2869.4402	19.00	-3.15	30617.310	4.5	34101.360	3.5
2869.4402	19.00	-3.27	30617.310	3.5	34101.360	2.5
2869.4459	17.00	-4.15	91660.580	2.5	95144.623	2.5
2869.4730	17.00	-2.96	97739.320	1.5	101223.330	2.5
2869.5472	28.01	-.64	134251.300	7.5	137735.220	6.5
2869.7696	17.00	-.73	91343.500	2.5	94827.150	2.5
2869.8520	29.01	-1.98	133594.050	3.0	137077.600	3.0
2869.8989	7.00	-.62	104144.790	.5	107628.283	1.5
2870.0580	7.00	-3.49	112957.700	1.5	116441.000	.5
2870.0580	7.00	-2.79	112957.700	1.5	116441.000	1.5
2870.0580	7.00	-3.62	112957.700	1.5	116441.000	2.5
2870.0580	7.00	-4.46	112957.700	2.5	116441.000	2.5
2870.0827	14.00	-2.27	60704.530	3.0	64187.800	3.0
2870.1486	28.01	-2.55	134271.590	4.5	137754.780	5.5
2870.2969	22.00	-4.47	42206.880	2.0	45689.890	3.0
2870.3793	28.01	-4.94	134053.050	2.5	137535.960	3.5
2870.3958	25.00	-3.58	59600.350	2.5	63083.240	1.5
2870.4947	18.00	.16	119212.930	3.0	122695.700	4.0
2870.6843	18.01	-.35	199525.150	1.5	203007.690	1.5
2870.7156	14.00	-3.47	60381.278	1.0	63863.780	2.0
2870.7750	27.00	-2.57	43263.570	1.5	46746.000	2.5
2870.7832	11.00	-3.87	37057.650	2.5	40540.070	2.5
2870.7832	11.00	-2.57	37057.650	3.5	40540.070	2.5
2870.7832	11.00	-2.72	37057.650	2.5	40540.070	1.5
2870.8970	28.00	-.07	48715.200	4.0	52197.482	3.0
2870.8986	28.01	-1.28	134271.590	4.5	137753.870	4.5
2870.9505	20.00	-.72	45049.073	1.0	48531.290	2.0
2870.9645	9.00	-1.91	130141.650	1.5	133623.850	1.5
2870.9777	18.00	-1.46	121161.356	1.0	124643.540	1.0
2871.1048	28.01	-2.93	115081.360	4.5	118563.390	3.5
2871.3604	20.00	-.63	45050.419	2.0	48532.139	3.0
2871.4346	29.01	-2.48	135759.970	2.0	139241.600	1.0
2871.4923	28.01	-1.77	134294.990	2.5	137776.550	3.5
2871.5831	9.00	-1.32	130489.930	.5	133971.380	1.5
2871.7621	26.00	-2.87	48122.913	3.0	51604.146	3.0
2871.8140	27.00	-4.29	50945.470	.5	54426.640	1.5
2871.8223	23.00	-4.37	40437.420	1.5	43918.580	2.5
2871.8553	7.00	-2.71	112877.880	4.5	116359.000	3.5
2871.8635	7.00	-3.59	112877.890	3.5	116359.000	2.5
2871.8635	7.00	-4.38	112877.890	3.5	116359.000	3.5
2872.0607	20.00	-.98	45050.419	2.0	48531.290	3.0
2872.0607	20.00	-1.85	45050.419	2.0	48531.290	2.0
2872.3504	18.01	-2.88	195123.540	5.5	198604.060	4.5
2872.5072	28.01	-1.98	130801.330	4.5	134281.660	5.5
2872.6392	28.01	-4.39	130900.650	2.5	134380.820	3.5
2872.6475	28.01	-1.78	134274.620	5.5	137754.780	5.5
2872.9529	28.01	-2.32	134642.090	3.5	138121.880	4.5
2872.9736	20.00	-4.84	45052.374	3.0	48532.139	3.0
2873.2419	27.00	-3.96	48615.560	2.5	52095.000	3.5
2873.3286	14.00	-2.61	60815.925	2.0	64295.260	3.0
2873.3988	28.01	-1.19	134274.620	5.5	137753.870	4.5
2873.5392	28.01	-4.93	130815.910	3.5	134294.990	2.5
2873.6202	14.00	-2.88	60010.458	1.0	63489.440	2.0
2873.6747	20.00	-1.46	45052.374	3.0	48531.290	3.0
2873.6747	20.00	-.39	45052.374	3.0	48531.290	4.0
2873.6747	20.00	-3.00	45052.374	3.0	48531.290	2.0
2873.8449	28.01	-.59	103663.500	1.5	107142.210	1.5
2873.8531	23.00	-3.94	40587.350	3.5	44066.050	3.5
2873.9192	20.00	-2.09	44955.670	0.0	48434.290	1.0
2874.1837	7.00	-4.54	112957.700	1.5	116436.000	1.5
2874.1837	7.00	-3.52	112957.700	2.5	116436.000	1.5
2874.1837	7.00	-3.93	112957.700	2.5	116436.000	2.5
2874.1919	14.00	-1.18	59118.030	3.0	62596.320	2.0
2874.2497	9.00	-.75	126581.180	.5	130059.400	.5
2874.4067	28.01	-4.78	115085.360	3.5	118563.390	3.5
2874.4307	10.00	-1.79	159534.620	1.0	163012.621	1.0
2874.5969	13.01	.39	135018.900	2.0	138496.700	1.0
2874.6216	28.01	-4.54	130730.530	2.5	134208.300	2.5
2874.6878	28.01	-2.19	116838.330	1.5	120316.020	.5
2874.7208	10.00	-.64	169516.990	1.0	172994.640	2.0
2875.2665	6.00	-2.28	85169.610	0.0	88646.600	1.0
2875.5601	20.00	-2.22	44957.655	1.0	48434.290	1.0
2875.5601	20.00	-1.91	44957.655	1.0	48434.290	2.0
2875.8372	6.00	-3.76	78293.490	1.0	81769.790	2.0
2876.2592	18.01	-4.61	195128.270	4.5	198604.060	4.5
2876.2592	14.00	-3.13	59190.460	1.0	62666.250	1.0
2876.2923	28.01	-.94	134267.200	6.5	137742.950	5.5
2876.3585	7.00	-2.57	112965.330	3.5	116441.000	2.5
2876.7657	14.00	-1.60	59191.072	2.0	62666.250	1.0
2876.9337	17.00	-1.17	97666.650	4.5	101141.625	4.5
2877.0455	22.00	-3.93	15220.390	5.0	18695.230	4.0
2877.0952	9.00	-2.37	130149.070	.5	133623.850	1.5
2877.2111	28.01	-2.50	135628.410	4.5	139103.050	5.5
2877.2939	17.00	-3.00	97666.650	4.5	101141.190	3.5
2877.3933	25.00	-3.15	45940.930	2.5	49415.350	2.5
2877.5217	18.00	.55	113468.550	2.0	116942.815	3.0
2877.5515	17.00	-2.49	97667.396	3.5	101141.625	4.5
2877.5655	7.00	-.80	106996.032	1.5	110470.244	2.5
2877.8821	7.00	-3.42	112967.170	3.5	116441.000	2.5
2877.9119	17.00	-4.39	97667.396	3.5	101141.190	3.5
2878.0063	28.01	-4.88	134053.050	2.5	137526.730	2.5
2878.1803	18.00	-2.50	119212.930	3.0	122686.400	2.0
2878.2632	18.01	-1.02	201720.670	1.5	205194.040	1.5
2878.3295	28.01	-4.04	130801.330	4.5	134274.620	5.5
2878.3659	18.00	-3.83	118459.662	1.0	121932.908	1.0
2878.4455	24.00	-4.74	48558.570	2.0	52031.720	3.0
2878.4703	28.01	-1.64	134281.660	5.5	137754.780	5.5
2878.8019	14.00	-1.63	60300.860	2.0	63773.580	2.0
2878.8433	17.00	-2.45	98372.970	1.5	101845.640	1.5
2878.8848	28.01	-4.38	114970.190	.5	118442.810	1.5
2878.9570	20.00	-3.39	44961.757	2.0	48434.290	1.0
2878.9570	20.00	-2.38	44961.757	2.0	48434.290	2.0
2878.9570	20.00	-1.46	44961.757	2.0	48434.290	3.0
2879.0423	14.00	-.72	60300.860	2.0	63773.290	3.0
2879.1169	25.00	-1.98	52883.870	2.5	56356.210	3.5
2879.2081	17.00	.15	92140.127	1.5	95612.357	1.5
2879.2247	28.01	-1.48	134281.660	5.5	137753.870	4.5
2879.2247	17.00	-1.50	98373.430	2.5	101845.640	1.5
2879.4735	27.00	-2.68	46375.170	1.5	49847.080	2.5
2879.5266	7.00	-3.51	106814.459	2.5	110286.305	2.5
2879.5979	9.00	-1.94	130141.650	1.5	133613.410	.5
2879.6809	10.01	-3.47	277325.600	1.5	280797.260	2.5
2879.8634	18.01	-4.34	199679.760	2.5	203151.200	2.5
2879.9297	28.01	-1.99	134271.590	4.5	137742.950	5.5
2880.2450	28.01	-3.66	116732.510	2.5	120203.490	2.5
2880.3363	6.00	-2.34	83747.390	2.0	87218.260	2.0
2880.5023	7.00	-3.59	112965.330	3.5	116436.000	2.5
2880.5106	21.00	-2.80	33615.060	1.5	37085.720	.5
2880.5687	27.00	-3.03	53074.920	1.5	56545.510	2.5
2880.6683	28.01	-3.63	130815.910	3.5	134286.380	4.5
2880.7389	26.00	-2.96	50534.435	3.0	54004.820	3.0
2880.8509	18.01	-1.59	201608.820	3.5	205079.070	2.5
2881.0178	26.00	-4.13	44285.436	2.0	47755.485	3.0
2881.3159	14.01	-2.43	122835.390	3.5	126305.080	3.5
2881.3159	14.01	-.88	122835.390	4.5	126305.080	3.5
2881.3159	14.01	-.99	122835.390	3.5	126305.080	2.5
2881.5218	22.00	-4.79	37617.868	4.0	41087.310	3.0
2881.5485	6.00	-3.11	85169.610	0.0	88639.020	1.0
2881.5816	27.00	-4.88	48571.770	.5	52041.140	.5
2881.5982	18.01	-4.26	154203.970	3.5	157673.320	2.5
2881.5983	25.00	-3.20	51638.170	2.5	55107.520	3.5
2881.6397	6.00	-.66	80562.850	1.0	84032.150	1.0
2881.9612	17.00	-2.13	97703.640	1.5	101172.553	1.5
2881.9720	13.01	-.54	144780.200	2.0	148249.100	3.0
2882.0302	7.00	-4.32	112967.170	3.5	116436.000	2.5
2882.2114	17.00	-1.67	97703.941	2.5	101172.553	1.5
2882.3875	28.01	-2.77	134286.380	4.5	137754.780	5.5
2882.4108	10.00	-1.08	169526.268	2.0	172994.640	2.0
2882.4108	10.00	-2.95	169526.268	2.0	172994.640	3.0
2882.4108	10.00	-4.14	169526.268	2.0	172994.640	3.0
2882.4249	26.00	-3.20	50423.185	4.0	53891.540	3.0
2882.4457	28.01	-1.28	134274.620	5.5	137742.950	5.5
2882.4706	15.00	-3.13	77655.200	3.5	81123.500	2.5
2882.7034	28.01	-1.36	134267.200	6.5	137735.220	6.5
2882.7615	25.00	-3.62	51718.220	1.5	55186.170	2.5
2882.8239	26.00	-4.91	50833.485	5.0	54301.360	4.0
2882.8613	6.00	-2.84	83497.620	2.0	86965.450	2.0
2882.9237	10.00	-2.24	169526.885	3.0	172994.640	2.0
2882.9237	10.00	-4.28	169526.885	3.0	172994.640	3.0
2882.9237	10.00	-2.82	169526.885	3.0	172994.640	3.0
2882.9237	10.00	-2.81	169526.885	3.0	172994.640	4.0
2882.9786	18.00	-1.44	117151.387	1.0	120619.076	2.0
2883.1082	17.00	-2.82	97674.092	3.5	101141.625	4.5
2883.1440	28.01	-1.61	134286.380	4.5	137753.870	4.5
2883.4699	17.00	-1.27	97674.092	3.5	101141.190	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2883.4849	19.00	-2.07	30185.240	2.5	33652.320	2.5
2883.4849	19.00	-.77	30185.240	2.5	33652.320	3.5
2883.5148	18.00	-.40	113716.610	3.0	117183.654	2.0
2883.6679	17.00	-2.60	97674.330	2.5	101141.190	3.5
2883.6796	7.00	-1.31	106778.337	1.5	110245.183	.5
2883.7844	23.00	-1.88	34537.210	1.5	38003.930	1.5
2883.8259	28.01	-3.90	116732.510	2.5	120199.180	1.5
2883.8426	18.01	-3.03	195128.270	4.5	198594.920	3.5
2883.8759	25.00	-3.63	53101.320	.5	56567.930	1.5
2883.9008	19.00	-.93	30185.740	1.5	33652.320	2.5
2883.9241	7.00	-1.43	106980.480	.5	110447.032	1.5
2884.2003	26.00	-3.11	48238.832	2.0	51705.052	2.0
2884.3335	14.00	-2.72	60856.630	1.0	64322.690	0.0
2884.4217	26.00	-4.09	48304.623	2.0	51770.577	3.0
2884.4500	6.00	-3.33	85625.180	0.0	89091.100	1.0
2884.5083	6.00	-2.79	83752.410	1.0	87218.260	2.0
2884.7080	20.02	-3.48	382784.700	3.0	386250.310	3.0
2885.1493	20.02	-2.03	382784.700	3.0	386249.780	4.0
2885.4199	26.00	-4.50	39969.830	3.0	43434.585	3.0
2885.4349	22.00	-3.49	37622.573	3.0	41087.310	3.0
2885.4407	14.00	-2.36	60621.640	0.0	64086.370	1.0
2885.7655	9.00	-3.04	130149.070	.5	133613.410	.5
2885.8472	17.00	-1.89	97666.650	4.5	101130.892	4.5
2886.0487	15.01	-2.35	127889.300	3.0	131353.300	2.0
2886.1404	28.01	-3.67	117763.910	1.5	121227.800	2.5
2886.1487	27.00	-4.82	43242.950	2.5	46706.830	3.5
2886.2154	8.01	-.51	257797.900	1.5	261261.700	1.5
2886.2738	6.00	-1.26	83877.310	1.0	87341.040	0.0
2886.3071	20.02	-4.41	382784.700	3.0	386248.390	4.0
2886.4687	17.00	-3.41	97667.396	3.5	101130.892	4.5
2886.5071	25.00	-4.01	56189.450	4.5	59652.900	5.5
2886.5804	14.00	-2.96	60381.278	1.0	63844.640	0.0
2886.6488	28.01	-.09	134658.600	4.5	138121.880	4.5
2886.7071	18.00	-3.22	122601.290	1.0	126064.500	2.0
2886.7487	19.00	-2.44	30274.280	.5	33737.440	1.5
2886.7554	14.00	-2.32	59056.508	1.0	62519.660	2.0
2886.7655	25.00	-3.83	59290.230	3.5	62753.370	2.5
2886.8621	14.00	-2.11	60848.946	4.0	64311.970	4.0
2887.1322	15.00	-4.92	74271.800	1.5	77734.500	2.5
2887.1489	23.00	-2.11	34477.400	.5	37940.080	.5
2887.2824	28.01	-3.28	135640.530	4.5	139103.050	5.5
2887.3657	23.00	-6.80	14910.040	3.5	18372.460	3.5
2887.4492	19.00	-2.74	30274.280	.5	33736.600	.5
2887.5325	25.00	-4.66	31001.150	2.5	34463.370	1.5
2887.5325	18.00	-4.04	122329.720	3.0	125791.940	2.0
2887.5709	28.00	-1.15	48735.308	2.0	52197.482	3.0
2887.5826	6.00	-4.50	78307.630	2.0	81769.790	2.0
2887.7628	14.00	-.47	60848.946	4.0	64310.890	5.0
2887.7628	14.00	-.50	60848.946	4.0	64310.890	5.0
2887.8387	28.00	-3.97	50789.500	4.0	54251.353	3.0
2887.8996	28.01	-2.17	100619.260	4.5	104081.040	4.5
2888.1415	27.00	-4.48	48571.770	.5	52033.260	1.5
2888.2366	7.00	-.46	106758.731	.5	110220.107	1.5
2888.2666	14.00	-.47	60300.860	2.0	63762.200	3.0
2888.3084	28.01	-1.77	134281.660	5.5	137742.950	5.5
2888.5695	17.00	-.56	92151.380	.5	95612.357	1.5
2888.7674	28.01	-3.93	130801.330	4.5	134262.070	3.5
2888.8843	28.01	-2.32	134274.620	5.5	137735.220	6.5
2888.8976	26.00	-3.09	44760.739	1.0	48221.323	1.0
2888.9594	18.00	-1.18	119760.220	1.0	123220.730	2.0
2889.1932	6.00	-2.89	85625.180	0.0	89085.410	1.0
2889.1982	22.00	-3.96	34078.580	3.0	37538.804	2.0
2889.2583	26.00	-4.16	47420.000	2.0	50880.152	1.0
2889.2600	6.00	-2.11	85188.950	1.0	88649.100	0.0
2889.3184	18.00	-1.24	121653.400	3.0	125113.480	2.0
2889.6442	18.01	-2.40	201720.670	1.5	205180.360	.5
2890.3041	18.00	-2.39	121654.580	2.0	125113.480	2.0
2890.3794	20.02	-2.65	382791.500	3.0	386250.310	3.0
2890.4545	25.00	-2.91	53109.210	2.5	56567.930	1.5
2890.6050	6.00	-1.32	83497.620	2.0	86956.160	1.0
2890.7638	28.01	-4.40	97799.660	1.5	101258.010	1.5
2891.0982	28.01	-1.47	135645.100	5.5	139103.050	5.5
2891.1016	18.00	-2.53	121068.804	1.0	124526.750	0.0
2891.3156	10.00	-3.49	169536.950	2.0	172994.640	2.0
2891.3156	10.00	-4.64	169536.950	3.0	172994.640	2.0
2891.3490	6.00	-3.14	85188.950	1.0	88646.600	1.0
2891.3666	18.00	-1.59	121191.920	2.0	124649.549	3.0
2891.4678	17.00	-.06	96731.172	3.5	100188.680	4.5
2891.4745	29.01	-2.38	135135.600	1.0	138593.100	1.0
2891.4745	15.00	-4.53	77843.300	1.5	81300.800	1.5
2891.5028	17.00	-3.52	92140.127	1.5	95597.593	.5
2891.5447	18.00	-1.63	120600.944	2.0	124058.360	3.0
2891.6166	29.01	-1.37	135759.970	2.0	139217.300	2.0
2891.8926	6.00	-1.32	83761.260	3.0	87218.260	2.0
2891.9010	28.01	-1.26	134249.720	1.5	137706.710	2.5
2891.9763	15.00	-2.12	77843.900	2.5	81300.800	1.5
2891.9847	20.02	-2.23	382791.500	3.0	386248.390	4.0
2892.0273	10.00	-2.79	167867.178	0.0	171324.017	1.0
2892.0600	17.00	-3.53	97674.092	3.5	101130.892	4.5
2892.0608	26.00	-4.71	51668.175	4.0	55124.974	3.0
2892.2524	28.01	-2.47	134286.380	4.5	137742.950	5.5
2892.5219	8.00	-.30	96225.061	1.0	99681.309	0.0
2892.7395	8.00	.40	96225.061	1.0	99681.049	2.0
2892.8073	8.00	.18	96225.061	1.0	99680.968	1.0
2892.8634	28.01	-3.70	129988.050	2.5	133443.890	2.5
2892.9973	28.01	-2.61	130815.910	3.5	134271.590	4.5
2893.1254	12.00	-3.85	57204.163	3.0	60659.690	2.0
2893.2192	12.00	-2.26	57204.275	3.0	60659.690	2.0
2893.2192	12.00	-3.73	57204.275	2.0	60659.690	2.0
2893.2820	24.00	-4.97	53927.590	4.0	57382.930	5.0
2893.3515	26.00	-2.09	43922.652	3.0	47377.909	4.0
2893.5273	22.00	-3.51	25317.813	1.0	28772.860	0.0
2893.5499	22.00	-2.03	43583.140	3.0	47038.160	3.0
2893.5801	14.00	-3.26	60848.946	4.0	64303.930	3.0
2893.6035	22.00	-3.84	34204.971	4.0	37659.927	3.0
2893.7761	25.00	-4.91	49415.350	2.5	52870.100	3.5
2893.7844	18.00	-1.76	122609.760	1.0	126064.500	2.0
2894.0358	27.00	-4.61	48615.560	2.5	52070.000	2.5
2894.0425	18.00	-1.52	122635.128	2.0	126089.560	3.0
2894.0609	28.01	-4.47	134252.850	3.5	137707.260	3.5
2894.1916	17.00	-2.07	96731.172	3.5	100185.426	2.5
2894.3072	28.00	-1.34	48817.600	1.0	52271.716	2.0
2894.3190	20.00	-4.68	44804.878	3.0	48258.980	2.0
2894.5218	28.01	-2.94	134252.850	3.5	137706.710	2.5
2894.5301	10.00	-2.54	169540.790	3.0	172994.640	2.0
2894.5301	10.00	-4.40	169540.790	4.0	172994.640	3.0
2894.5804	23.00	-5.00	36983.630	1.5	40437.420	1.5
2894.7732	28.01	-3.31	134281.660	5.5	137735.220	6.5
2894.8403	28.01	-4.61	117662.110	1.5	121115.590	1.5
2895.1589	15.00	-4.33	78069.000	1.5	81522.100	2.5
2895.2678	10.01	-3.76	277344.290	2.5	280797.260	2.5
2895.5982	17.00	-.48	96313.330	1.5	99765.906	2.5
2895.6200	26.00	-4.86	50614.020	4.0	54066.570	4.0
2895.7710	10.00	-4.75	169542.270	4.0	172994.640	3.0
2895.7710	10.00	-4.66	169542.270	5.0	172994.640	4.0
2895.8625	7.00	-3.42	110710.739	2.5	114163.000	1.5
2896.0646	28.01	-2.73	134254.690	1.5	137706.710	2.5
2896.1485	18.00	-1.63	122601.290	1.0	126053.210	2.0
2896.2408	20.02	-4.08	382798.500	4.0	386250.310	3.0
2896.3331	13.01	-.54	146414.500	4.0	149866.200	3.0
2896.3331	13.01	-1.48	146414.500	4.0	149866.200	3.0
2896.3331	13.01	-2.25	146414.500	3.0	149866.200	3.0
2896.4674	6.00	-2.43	78318.250	3.0	81769.790	2.0
2896.4841	28.01	-3.17	130801.330	4.5	134252.850	3.5
2896.4841	26.01	-4.56	58631.650	4.5	62083.170	4.5
2896.5848	28.02	-4.48	118115.300	2.0	121566.700	1.0
2896.6855	20.02	-2.55	382798.500	4.0	386249.780	4.0
2896.7443	28.01	-1.41	134256.050	2.5	137707.260	3.5
2896.9206	7.00	-.48	106996.032	1.5	110447.032	1.5
2897.1640	12.00	-2.15	55891.800	1.0	59342.510	0.0
2897.1640	12.00	-1.67	55891.800	1.0	59342.510	1.0
2897.1640	12.00	-1.45	55891.800	1.0	59342.510	2.0
2897.1674	18.00	-2.29	120600.944	2.0	124051.650	2.0
2897.1724	15.00	-.86	72741.600	1.5	76192.300	1.5
2897.2060	28.01	-1.37	134256.050	2.5	137706.710	2.5
2897.3438	18.00	-3.60	120600.944	2.0	124051.440	3.0
2897.3513	22.00	-4.06	37743.933	3.0	41194.420	3.0
2897.5335	19.00	-2.16	30606.730	2.5	34057.000	1.5
2897.5839	19.00	-2.00	30606.730	3.5	34056.940	2.5
2897.5839	19.00	-3.30	30606.730	2.5	34056.940	2.5
2897.6091	20.02	-2.15	382798.500	4.0	386248.680	5.0
2897.6511	22.00	-1.86	43744.550	4.0	47194.680	4.0
2897.6662	26.00	-3.21	48289.852	1.0	51739.964	2.0
2897.7015	6.00	-2.12	85188.950	1.0	88639.020	1.0
2897.8350	26.00	-4.17	48304.623	2.0	51754.534	1.0
2897.8526	20.02	-3.98	382798.500	4.0	386248.390	4.0
2897.9367	28.01	-3.64	117662.110	1.5	121111.900	.5
2898.1324	18.00	-1.02	117151.387	1.0	120600.944	2.0
2898.1467	28.01	-3.52	95017.710	4.5	98467.250	3.5
2898.1551	29.01	-1.34	118532.150	2.0	121981.680	2.0
2898.2559	23.00	-3.13	37940.080	.5	41389.490	1.5
2898.6349	18.00	-2.32	117563.020	0.0	121011.979	1.0
2898.7988	14.00	-1.49	60848.946	4.0	64297.710	4.0
2898.8022	18.01	-2.54	196076.390	1.5	199525.150	1.5
2898.8190	26.02	-4.36	219162.420	6.0	222611.160	5.0
2898.8257	14.00	-1.15	60496.358	2.0	63945.090	3.0
2898.9097	7.00	-3.17	111501.368	1.5	114950.000	.5
2898.9097	7.00	-2.94	111501.368	1.5	114950.000	1.5
2899.0846	14.00	-2.85	60848.946	4.0	64297.370	3.0
2899.2561	23.00	-3.94	36989.200	2.5	40437.420	1.5
2899.2670	26.00	-4.58	47960.973	4.0	51409.180	4.0
2899.6850	28.01	-3.70	97799.660	1.5	101247.370	2.5
2899.7472	28.00	-2.93	50789.500	4.0	54237.136	4.0
2899.9340	14.00	-2.16	57198.027	3.0	60645.441	2.0
2900.0576	22.00	-1.29	18141.229	5.0	21588.496	4.0
2900.1813	25.00	-3.04	59784.310	3.5	63231.430	4.5
2900.6777	10.01	.11	303974.290	1.5	307420.820	2.5
2900.7030	28.01	-3.92	97799.660	1.5	101246.160	.5
2900.9446	17.00	-3.50	92151.380	.5	95597.593	.5
2900.9892	28.01	-2.56	130815.910	3.5	134262.070	3.5
2901.1660	26.00	-4.05	44676.963	4.0	48122.913	3.0
2901.1929	18.00	-1.03	120207.320	5.0	123653.238	4.0
2901.5702	28.01	-4.70	114869.350	1.5	118314.820	2.5
2901.5718	18.00	-2.68	120207.770	4.0	123653.238	4.0
2901.6165	14.00	-2.72	59273.575	1.0	62718.990	0.0
2901.6291	6.00	-3.10	85169.610	0.0	88615.010	1.0
2901.6712	24.00	-3.60	45113.220	3.0	48558.570	2.0
2901.8060	28.01	-1.16	134262.070	3.5	137707.260	3.5
2901.8060	24.00	-4.24	53927.590	4.0	57372.780	4.0
2901.8734	28.01	-4.58	117872.780	2.5	121317.890	3.5
2902.1345	10.00	-4.46	169814.630	2.0	173259.430	1.0
2902.2204	12.00	-4.15	57214.992	1.0	60659.690	2.0
2902.2693	28.01	-1.78	134262.070	3.5	137706.710	2.5
2902.3957	24.00	-4.77	48558.570	2.0	52003.060	1.0
2902.3991	18.00	-1.50	121165.431	3.0	124609.917	4.0
2902.4058	18.00	-1.74	121270.682	2.0	124715.160	3.0
2902.4547	18.01	-1.15	210447.010	3.5	213891.430	2.5
2902.8002	22.00	-2.33	38544.380	3.0	41988.390	3.0
2903.0792	7.00	-.32	104144.790	.5	107588.469	.5
2903.1222	14.00	-2.01	57372.297	2.0	60815.925	2.0
2903.1947	22.00	-2.83	25438.898	2.0	28882.440	3.0
2903.2722	18.00	-4.48	122609.760	1.0	126053.210	2.0
2903.6854	6.00	-2.50	85203.640	2.0	88646.600	1.0
2903.7023	24.00	-3.13	44259.360	3.0	47702.300	3.0
2903.9554	18.01	-.16	210438.500	4.5	213881.140	5.5
2904.2000	27.00	-3.03	42434.230	2.5	45876.580	2.5
2904.4363	28.01	-4.80	132846.530	3.5	136288.600	2.5
2904.5629	9.00	-1.53	130141.650	1.5	133583.570	2.5
2904.6895	7.00	-.15	106778.337	1.5	110220.107	1.5
2904.7131	26.00	-2.81	47092.693	3.0	50534.435	3.0
2904.7147	22.00	-2.17	34535.040	2.0	37976.780	2.0
2904.7232	27.00	-1.55	53103.780	3.5	56545.510	2.5
2904.8413	24.00	-3.12	44259.360	3.0	47700.950	2.0
2904.9680	28.01	-3.77	118828.610	2.5	122270.050	3.5
2905.3394	21.00	-2.59	33707.250	2.5	37148.250	1.5
2905.6502	7.00	-1.83	111501.368	1.5	114942.000	2.5
2905.6535	14.00	-.30	54871.031	1.0	58311.659	0.0
2905.7160	56.01	-.14	45949.496	0.0	49390.989	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2905.7617	13.01	-.80	146185.000	2.0	149625.500	2.0
2905.7617	13.01	-.07	146185.000	1.0	149625.500	2.0
2905.7617	13.01	-.26	146185.000	2.0	149625.500	3.0
2905.7617	13.01	-2.34	146185.000	3.0	149625.500	2.0
2905.7617	13.01	-1.17	146185.000	3.0	149625.500	3.0
2905.7617	13.01	.27	146185.000	3.0	149625.500	4.0
2905.9677	18.00	-3.56	120600.944	2.0	124041.200	1.0
2906.0657	28.01	-2.80	130815.910	3.5	134256.050	2.5
2906.1164	26.02	-3.02	219162.420	6.0	222602.500	6.0
2906.1249	17.00	-1.80	98418.890	3.5	101858.960	2.5
2906.3023	17.00	-4.15	98419.100	2.5	101858.960	2.5
2906.7890	18.00	-4.64	120619.076	2.0	124058.360	3.0
2907.1660	17.00	-4.31	96731.172	3.5	100170.010	2.5
2907.3097	17.00	-.93	96731.172	3.5	100169.840	3.5
2907.4298	18.00	-3.00	121165.431	3.0	124603.957	2.0
2907.5364	15.00	-1.67	76425.200	2.5	79863.600	3.5
2907.8746	9.00	-1.08	130221.120	1.5	133659.120	.5
2908.5142	26.00	-4.23	48531.896	3.0	51969.140	3.0
2908.5489	22.00	-4.37	15156.787	4.0	18593.990	3.0
2908.7714	28.01	-3.83	130815.910	3.5	134252.850	3.5
2908.9830	28.01	-3.31	114942.420	1.5	118379.110	2.5
2909.0440	16.00	-1.14	77889.582	2.0	81326.200	1.0
2909.1438	15.03	-.50	316627.000	0.0	320063.500	1.0
2909.1693	28.01	-4.12	116786.420	.5	120222.890	1.5
2909.2709	22.00	-2.18	38670.710	4.0	42107.060	4.0
2909.4360	14.00	-4.39	60815.925	2.0	64252.080	2.0
2909.5469	28.00	-4.63	47030.148	3.0	50466.172	4.0
2909.5841	15.00	.09	66544.120	2.5	69980.100	3.5
2909.6324	7.00	-.06	106758.731	.5	110194.654	1.5
2909.7485	7.00	-4.57	110710.739	2.5	114146.525	2.5
2909.7790	9.00	-1.97	130141.650	1.5	133577.400	1.5
2909.8213	13.01	-1.52	144781.900	3.0	148217.600	3.0
2909.8213	13.01	-.14	144781.900	3.0	148217.600	4.0
2909.8213	13.01	-2.98	144781.900	3.0	148217.600	4.0
2909.8467	28.01	-1.29	134271.590	4.5	137707.260	3.5
2909.8467	25.00	-4.01	59470.140	3.5	62905.810	2.5
2909.8636	20.01	.42	81498.000	.5	84933.650	1.5
2909.8890	27.00	-3.66	48828.870	2.5	52264.490	1.5
2910.0245	23.00	-4.32	33640.180	4.5	37075.640	4.5
2910.0567	18.00	-.50	117183.654	2.0	120619.076	2.0
2910.0923	6.00	-2.09	85203.640	2.0	88639.020	1.0
2910.1254	26.00	-4.26	48304.623	2.0	51739.964	2.0
2910.1771	18.01	-1.77	196089.870	2.5	199525.150	1.5
2910.2533	27.00	-1.19	44782.130	4.5	48217.320	3.5
2910.2592	17.00	-2.92	91538.500	1.5	94973.683	.5
2910.3549	18.01	-1.75	210438.500	4.5	213873.570	3.5
2910.3761	17.00	-2.53	96731.172	3.5	100166.217	3.5
2910.3939	18.00	-4.48	120619.076	2.0	124054.100	3.0
2910.5896	18.00	-1.86	121257.227	1.0	124692.020	2.0
2910.6854	27.00	-4.12	49025.420	1.5	52460.100	2.5
2910.7549	7.00	.67	106868.635	3.5	110303.233	4.5
2910.8668	17.00	-3.70	96731.172	3.5	100165.638	4.5
2911.0074	15.00	-1.67	75905.100	2.5	79339.400	1.5
2911.2118	7.00	.28	106778.337	1.5	110212.396	2.5
2911.2533	28.01	-2.06	116732.510	2.5	120166.520	1.5
2911.4313	25.00	-3.52	57305.620	3.5	60739.420	3.5
2911.5161	15.01	-1.10	127368.000	2.0	130801.700	1.0
2911.5585	24.00	-4.32	53927.590	4.0	57361.240	3.0
2911.5670	28.01	-3.89	116838.330	1.5	120271.970	2.5
2911.6747	17.00	-2.83	97739.040	.5	101172.553	1.5
2911.9122	17.00	-2.60	97739.320	1.5	101172.553	1.5
2911.9614	7.00	.04	107037.069	2.5	110470.244	2.5
2911.9741	6.00	-1.37	85203.640	2.0	88636.800	2.0
2912.1946	15.00	-1.83	75689.200	1.5	79122.100	1.5
2912.1946	15.00	-4.64	76875.400	1.5	80308.300	2.5
2912.2549	7.00	.52	106814.459	2.5	110247.288	3.5
2912.2795	15.00	-4.23	74301.700	2.5	77734.500	2.5
2912.4712	18.00	-2.58	120619.076	2.0	124051.650	2.0
2912.5985	18.00	-.30	114975.070	1.0	118407.494	1.0
2912.6494	18.00	-1.49	120619.076	2.0	124051.440	3.0
2912.7300	22.00	-1.40	18037.225	4.0	21469.494	3.0
2912.7885	17.01	-4.50	128729.800	3.0	132162.000	3.0
2912.8734	7.00	-3.60	112826.900	3.5	116259.000	2.5
2913.0076	17.00	-3.03	84648.100	2.5	88080.042	2.5
2913.2129	17.01	-2.89	144174.000	3.0	147605.700	3.0
2913.3828	30.02	-3.48	260805.900	2.0	264237.400	1.0
2913.4906	7.00	-3.27	110715.152	3.5	114146.525	2.5
2913.5186	25.00	-1.19	52758.110	4.5	56189.450	4.5
2913.5195	7.00	-4.83	106868.635	3.5	110299.974	2.5
2913.8328	16.00	-1.42	77849.790	1.0	81280.760	2.0
2914.1029	22.00	-2.79	37824.748	4.0	41255.400	4.0
2914.2558	17.00	-3.45	98372.970	1.5	101803.442	2.5
2914.2609	14.00	-4.65	58801.524	1.0	62231.990	2.0
2914.6466	17.00	-2.30	98373.430	2.5	101803.442	2.5
2915.0307	9.00	-2.22	130489.930	.5	133919.490	1.5
2915.0732	6.00	.42	78340.280	1.0	81769.790	2.0
2915.1668	14.00	-1.46	60704.530	3.0	64133.930	4.0
2915.1906	18.00	-2.55	122635.128	2.0	126064.500	2.0
2915.3878	28.00	-2.13	51343.800	2.0	54772.940	3.0
2915.5111	17.00	-.11	97712.630	5.5	101141.625	4.5
2915.5238	24.00	-4.52	24299.890	2.0	27728.870	2.0
2915.5366	17.00	-1.84	97712.660	4.5	101141.625	4.5
2915.7025	14.02	-1.01	254584.600	4.0	258013.370	3.0
2915.8725	14.02	-.91	254584.800	4.0	258013.370	3.0
2915.9065	17.00	-.21	97712.660	4.5	101141.190	3.5
2915.9490	9.02	-.05	440202.480	2.5	443630.960	3.5
2915.9524	16.00	-1.20	77852.284	2.0	81280.760	2.0
2915.9831	26.02	-2.22	219162.420	6.0	222590.860	7.0
2916.0767	9.00	-1.83	130149.070	.5	133577.400	1.5
2916.2723	25.00	-3.94	56356.210	3.5	59784.310	3.5
2916.8211	14.00	-1.51	60815.925	2.0	64243.380	2.0
2916.8414	18.00	-4.09	121011.979	1.0	124439.410	0.0
2916.9530	13.01	-1.22	142849.200	4.0	146276.500	3.0
2916.9530	13.01	-1.80	142849.200	4.0	146276.500	3.0
2916.9530	13.01	-3.14	142849.200	3.0	146276.500	3.0
2917.0211	6.00	-2.58	83791.040	2.0	87218.260	2.0
2917.3871	18.01	-1.47	210447.010	3.5	213873.800	2.5
2917.4041	27.00	-4.75	48837.720	.5	52264.490	1.5
2917.4467	18.01	-.12	210464.710	2.5	213891.430	2.5
2917.4918	26.00	-3.63	47271.999	1.0	50698.666	2.0
2917.5829	18.01	-.53	210447.010	3.5	213873.570	3.5
2917.6255	18.01	-1.09	210464.710	2.5	213891.220	1.5
2917.7439	26.00	-3.79	40207.120	3.0	43633.491	2.0
2918.0087	6.00	-3.00	85188.950	1.0	88615.010	1.0
2918.0598	15.03	-.80	316627.000	0.0	320053.000	1.0
2918.5403	26.00	-3.93	47555.584	1.0	50981.020	0.0
2918.6672	28.00	-2.33	47328.850	2.0	50754.137	2.0
2918.6868	16.00	-1.06	77855.496	3.0	81280.760	2.0
2918.7328	6.00	-3.49	77679.820	2.0	81105.030	1.0
2918.8862	24.00	-4.45	51246.870	1.0	54671.900	1.0
2918.9033	25.00	-4.99	59480.800	2.5	62905.810	2.5
2918.9118	23.00	-3.60	38003.930	1.5	41428.930	2.5
2918.9613	16.00	-1.84	77901.258	0.0	81326.200	1.0
2918.9715	24.00	-4.22	24303.940	3.0	27728.870	2.0
2919.0260	14.00	-2.49	58801.524	1.0	62226.390	1.0
2919.6611	14.00	-3.40	59109.959	3.0	62534.080	4.0
2919.6791	15.00	-.42	76875.400	1.5	80299.500	1.5
2920.2521	18.00	-3.27	120229.810	3.0	123653.238	4.0
2920.4808	23.00	-5.63	14949.300	4.5	18372.460	3.5
2920.5149	18.01	-.29	187589.230	2.5	191012.350	1.5
2920.7624	9.02	-1.06	440202.480	2.5	443625.310	2.5
2920.9689	55.00	-1.57	25709.140	0.0	29132.662	0.0
2921.2113	18.00	-2.07	120619.076	2.0	124041.380	2.0
2921.2147	29.01	-2.56	115569.200	5.0	118991.500	4.0
2921.2147	15.00	-2.22	75699.800	.5	79122.100	1.5
2921.3017	18.00	-.88	119212.930	3.0	122635.128	2.0
2921.3649	18.00	-3.00	120619.076	2.0	124041.200	1.0
2921.4622	18.01	-1.35	210438.500	4.5	213860.510	3.5
2921.5562	18.01	-.37	210438.500	4.5	213860.400	4.5
2921.7764	20.00	-.37	42743.002	1.0	46164.644	2.0
2922.0172	6.00	-2.36	85203.640	2.0	88625.000	3.0
2922.0360	18.00	-3.13	121270.682	2.0	124692.020	2.0
2922.3606	18.00	-1.95	122790.612	0.0	126211.570	1.0
2922.4000	56.00	-.88	9215.000	0.0	12636.845	0.0
2922.4273	28.01	-3.88	134286.380	4.5	137707.260	3.5
2922.4529	18.01	-.51	210438.500	4.5	213859.350	4.5
2922.5469	18.01	.73	210438.500	4.5	213859.240	5.5
2922.6904	22.00	-2.75	38451.298	2.0	41871.870	2.0
2922.7314	26.00	-3.69	47929.981	4.0	51350.505	4.0
2922.7861	9.00	-1.57	130489.930	.5	133910.390	.5
2922.8374	7.00	-3.04	112946.600	1.5	116367.000	.5
2922.8374	7.00	-4.67	112946.600	1.5	116367.000	1.5
2923.1202	20.00	-.20	42744.716	2.0	46164.785	3.0
2923.2408	20.00	-1.10	42744.716	2.0	46164.644	2.0
2923.3262	22.00	-4.12	38764.832	3.0	42184.660	4.0
2923.4169	17.00	-4.99	98383.720	3.5	101803.442	2.5
2923.6580	28.01	-3.38	132869.160	3.5	136288.600	2.5
2923.6665	28.01	-3.85	133169.920	3.5	136589.350	3.5
2923.6836	20.01	.68	81517.000	1.5	84936.410	2.5
2923.8974	26.02	-4.63	219415.610	5.0	222834.770	6.0
2924.2138	21.00	-3.44	33154.010	2.5	36572.800	2.5
2924.2822	28.01	-1.01	103663.500	1.5	107082.210	2.5
2924.3250	10.01	-4.10	302844.110	2.5	306262.770	1.5
2924.5474	15.01	-2.52	127934.900	1.0	131353.300	2.0
2924.6655	17.00	-1.10	97712.630	5.5	101130.892	4.5
2924.6672	14.00	-1.57	59032.140	2.0	62450.400	1.0
2924.6912	17.00	-2.83	97712.660	4.5	101130.892	4.5
2924.7468	17.00	-3.65	92194.190	1.5	95612.357	1.5
2924.8195	18.00	-2.63	122635.128	2.0	126053.210	2.0
2925.1721	7.00	-4.35	106868.635	3.5	110286.305	2.5
2925.2458	20.00	-.04	42747.387	3.0	46164.971	4.0
2925.3690	24.00	-3.98	33816.060	4.0	37233.500	5.0
2925.3775	9.00	-.96	126067.230	.5	129484.660	1.5
2925.4049	20.00	-1.10	42747.387	3.0	46164.785	3.0
2925.4246	12.00	-1.79	57017.724	1.0	60435.099	2.0
2925.4974	18.00	-2.46	117183.654	2.0	120600.944	2.0
2925.5257	20.00	-2.65	42747.387	3.0	46164.644	2.0
2925.8827	28.01	-2.94	113407.310	2.5	116824.150	2.5
2925.8912	25.00	-1.93	57485.970	2.5	60902.800	3.5
2925.9598	9.02	-3.19	441158.600	1.5	444575.350	2.5
2926.0453	20.01	-.28	81517.000	1.5	84933.650	1.5
2926.0505	26.00	-4.35	51708.330	2.0	55124.974	3.0
2926.3306	7.00	-1.02	106778.337	1.5	110194.654	1.5
2926.4137	26.00	-4.86	50475.320	4.0	53891.540	3.0
2926.5388	12.00	-2.27	57019.025	2.0	60435.099	2.0
2926.7649	10.00	-4.89	169839.450	1.0	173255.260	0.0
2926.7735	6.00	-1.67	85188.950	1.0	88604.750	2.0
2926.7906	9.00	-1.63	130141.650	1.5	133557.430	2.5
2926.9363	10.00	-4.86	169843.820	2.0	173259.430	1.0
2927.0820	28.01	-2.73	113408.710	1.5	116824.150	2.5
2927.1163	28.01	-3.54	132912.150	2.5	136327.550	1.5
2927.2277	18.00	-.84	114147.750	1.0	117563.020	0.0
2927.2534	6.00	-2.13	83497.620	2.0	86912.860	1.0
2927.4737	7.00	-1.13	106980.480	.5	110395.463	1.5
2927.6014	26.00	-4.80	47008.351	5.0	50423.185	4.0
2927.9281	26.00	-4.24	45061.287	3.0	48475.740	3.0
2927.9650	23.02	-2.60	158155.000	1.5	161569.410	1.5
2928.0156	20.00	.08	33317.264	0.0	36731.615	1.0
2928.2051	29.01	-2.18	135484.300	0.0	138898.430	1.0
2928.2051	22.00	-3.14	38544.380	3.0	41958.510	2.0
2928.5028	18.00	-3.58	119847.810	1.0	123261.593	2.0
2928.6082	18.01	-2.32	210477.770	3.5	213891.430	2.5
2928.6537	16.00	-1.37	77912.593	1.0	81326.200	1.0
2928.7138	26.00	-2.84	50698.666	2.0	54112.203	2.0
2928.7456	7.00	-2.97	112953.500	4.5	116367.000	3.5
2928.7456	18.01	-.17	210447.010	3.5	213860.510	3.5
2928.8400	18.01	.19	210447.010	3.5	213860.400	4.5
2928.9172	17.01	-3.09	147605.700	3.0	151019.000	2.0
2929.0879	18.00	-3.39	121653.400	3.0	125066.501	2.0
2929.0888	7.00	-4.73	112826.900	2.5	116240.000	1.5
2929.2424	26.00	-4.31	47960.973	4.0	51373.894	5.0
2929.4870	22.00	-4.71	36000.144	4.0	39412.780	5.0
2929.6896	7.00	-4.61	112946.600	1.5	116359.000	2.5
2929.7411	18.01	.13	210447.010	3.5	213859.350	4.5
2929.8184	18.01	-1.31	201781.790	2.5	205194.040	1.5
2929.8184	10.01	-3.66	302831.170	3.5	306243.420	2.5
2929.8270	23.00	-3.79	38242.460	3.5	41654.700	2.5
2929.8777	18.00	-1.20	121654.320	3.0	125066.501	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2930.0014	18.00	-3.41	121191.920	2.0	124603.957	2.0
2930.1009	18.00	-2.56	121654.580	2.0	125066.501	2.0
2930.1447	18.00	-2.06	119760.220	1.0	123172.090	1.0
2930.2736	28.01	-2.75	134294.990	2.5	137706.710	2.5
2930.3423	9.02	-1.71	440359.260	3.5	443770.900	3.5
2930.4540	27.00	-4.36	43295.320	4.5	46706.830	3.5
2930.5742	6.00	-3.68	85203.640	2.0	88615.010	1.0
2930.6344	15.00	-.92	72493.800	1.5	75905.100	2.5
2930.7572	22.00	-3.37	41170.003	3.0	44581.160	2.0
2930.7710	55.00	.31	18535.519	0.0	21947.590	0.0
2931.1584	18.01	.18	211586.110	2.5	214996.800	3.5
2931.2358	15.00	-.93	76762.400	.5	80173.000	.5
2931.6914	24.00	-4.93	35501.260	3.0	38911.330	3.0
2931.7834	7.00	-.47	107037.069	2.5	110447.032	1.5
2932.0543	26.00	-3.40	44551.325	3.0	47960.973	4.0
2932.0784	20.00	-1.78	39333.382	0.0	42743.002	1.0
2932.0912	28.00	-1.70	47424.830	1.0	50834.435	2.0
2932.2727	20.00	-1.44	39335.322	1.0	42744.716	2.0
2932.2821	17.00	-1.11	91564.300	.5	94973.683	.5
2932.3535	7.00	-4.92	112957.700	2.5	116367.000	3.5
2932.5342	18.01	-.46	210464.710	2.5	213873.800	2.5
2932.7320	18.01	-.11	210464.710	2.5	213873.570	3.5
2932.9067	26.00	-4.57	48361.920	4.0	51770.577	3.0
2932.9213	28.01	-3.69	105861.190	2.5	109269.830	1.5
2933.0418	29.01	-3.69	135733.600	3.0	139142.100	2.0
2933.7475	20.00	-1.86	39335.322	1.0	42743.002	1.0
2934.0688	20.00	-1.17	39340.080	2.0	42747.387	3.0
2934.1781	18.00	-1.63	119847.810	1.0	123254.990	1.0
2934.3685	17.00	-.64	91906.790	2.5	95313.749	1.5
2934.6062	7.00	.23	104221.600	1.5	107628.283	1.5
2935.1257	24.00	-4.06	45255.510	3.0	48661.590	3.0
2935.1817	26.00	-2.85	47017.170	3.0	50423.185	4.0
2935.3412	24.00	-4.52	37883.340	2.0	41289.170	1.0
2935.4705	14.00	-.99	59128.400	5.0	62534.080	4.0
2935.4981	7.00	-1.12	106814.459	2.5	110220.107	1.5
2935.6256	7.00	-2.60	112953.500	4.5	116359.000	3.5
2935.7635	24.00	.45	42238.040	2.0	45643.380	3.0
2935.7773	7.00	-.55	106996.032	1.5	110401.356	2.5
2935.7851	7.00	-.08	106980.480	.5	110385.795	.5
2935.9704	30.02	-2.81	296720.900	3.0	300126.000	4.0
2936.3706	20.00	-1.83	39340.080	2.0	42744.716	2.0
2936.5552	20.00	-.97	45425.358	1.0	48829.780	2.0
2936.5742	7.00	-3.03	112946.600	.5	116351.000	.5
2936.5742	7.00	-3.47	112946.600	1.5	116351.000	1.5
2936.6371	26.00	-4.92	47960.973	4.0	51365.300	3.0
2936.9279	18.01	-.73	211593.440	4.5	214997.430	4.5
2936.9934	26.00	-3.50	48350.620	1.0	51754.534	1.0
2937.0986	12.00	-2.51	57017.078	0.0	60420.870	1.0
2937.2644	15.00	-.75	72618.000	.5	76021.600	1.5
2937.3075	25.00	-4.30	59827.880	5.5	63231.430	4.5
2937.3679	28.01	-4.66	130331.780	1.5	133735.260	2.5
2937.4343	17.00	-.96	92194.190	1.5	95597.593	.5
2937.4715	18.01	-2.37	211593.440	4.5	214996.800	3.5
2937.5578	16.00	-1.24	76719.800	1.0	80123.060	0.0
2937.6182	25.00	-4.52	54218.710	1.5	57621.900	1.5
2937.6441	6.00	-1.30	85203.640	2.0	88606.800	3.0
2937.6562	12.00	-2.03	57017.724	1.0	60420.870	1.0
2937.6700	28.01	-3.93	116786.420	.5	120189.550	.5
2937.7063	18.00	-3.53	120250.150	3.0	123653.238	4.0
2937.7063	18.00	-1.98	120250.150	4.0	123653.238	4.0
2937.8496	20.00	-2.95	39340.080	2.0	42743.002	1.0
2937.8945	23.00	-2.13	34537.210	1.5	37940.080	.5
2938.0154	9.00	-1.01	130221.120	1.5	133623.850	1.5
2938.0413	15.01	-1.57	127950.600	2.0	131353.300	2.0
2938.0585	24.00	-4.80	48661.590	3.0	52064.270	4.0
2938.4472	18.01	.41	211572.270	1.5	214974.500	2.5
2938.5006	14.00	-2.79	59131.912	4.0	62534.080	4.0
2938.5939	9.00	-1.14	129607.070	.5	133009.130	.5
2938.7797	12.00	-1.81	57019.025	2.0	60420.870	1.0
2938.9308	7.00	-3.45	112965.330	3.5	116367.000	3.5
2938.9654	14.00	-1.55	59118.030	3.0	62519.660	2.0
2939.1296	12.01	-.71	108900.030	2.5	112301.470	2.5
2939.1296	12.01	.60	108900.030	2.5	112301.470	3.5
2939.2678	12.01	.44	108900.190	1.5	112301.470	2.5
2939.2765	28.01	-3.72	116512.060	3.5	119913.330	4.5
2939.4148	6.00	-3.47	85203.640	2.0	88604.750	2.0
2939.8037	29.01	-3.00	115639.020	2.0	119039.680	2.0
2940.0034	26.00	-3.74	48304.623	2.0	51705.052	2.0
2940.4003	22.00	-4.58	42311.310	3.0	45711.280	4.0
2940.4263	7.00	-2.51	112967.060	4.5	116367.000	3.5
2940.4695	10.01	-3.82	302843.530	3.5	306243.420	2.5
2940.5214	7.00	-4.34	112967.170	3.5	116367.000	3.5
2940.7117	16.00	-.77	76719.800	1.0	80119.410	1.0
2940.7377	28.01	-3.58	132927.970	1.5	136327.550	1.5
2940.8666	7.00	-.52	106996.032	1.5	110395.463	1.5
2940.9539	24.00	-4.42	51246.870	1.0	54646.200	0.0
2940.9713	10.01	-4.53	302844.110	2.5	306243.420	2.5
2941.1097	28.01	-3.10	101247.370	2.5	104646.520	3.5
2941.7761	28.01	-4.52	118294.170	3.5	121692.550	4.5
2941.7787	26.00	-2.63	47136.058	2.0	50534.435	3.0
2941.9925	6.00	-4.44	83820.130	1.0	87218.260	2.0
2942.0964	20.02	-2.24	382852.300	2.0	386250.310	3.0
2942.1137	25.00	-3.98	59116.600	2.5	62514.590	2.5
2942.1233	17.00	-1.91	96313.330	1.5	99711.309	.5
2942.1596	7.00	-.28	106814.459	2.5	110212.396	2.5
2942.5319	14.00	-2.21	60487.103	1.0	63884.610	1.0
2942.5917	26.00	-2.37	33765.291	2.0	37162.729	3.0
2942.6680	28.00	-3.27	47139.392	2.0	50536.742	1.0
2943.5205	18.00	-2.28	122086.974	2.0	125483.340	2.0
2943.6765	18.00	-3.31	122086.974	2.0	125483.160	3.0
2943.8117	18.01	-1.91	210477.770	3.5	213873.800	2.5
2943.8898	28.01	-3.73	118874.110	3.5	122270.050	3.5
2944.0111	18.01	.21	210464.710	2.5	213860.510	3.5
2944.0111	18.01	-.80	210477.770	3.5	213873.570	3.5
2944.0753	18.00	-1.08	122086.974	2.0	125482.700	3.0
2944.3146	14.00	-1.61	60856.630	1.0	64252.080	2.0
2944.4360	6.00	-1.90	85188.950	1.0	88584.260	2.0
2944.7829	10.00	-.75	162517.872	1.0	165912.782	1.0
2944.8818	17.00	-.25	92140.127	1.5	95534.923	.5
2945.2228	26.00	-2.83	44826.920	0.0	48221.323	1.0
2945.3911	20.00	-1.66	44989.830	2.0	48384.039	3.0
2945.6662	14.00	-2.50	59056.508	1.0	62450.400	1.0
2945.6940	18.00	-4.54	122695.700	4.0	126089.560	3.0
2945.7461	9.02	-3.70	440359.260	3.5	443753.060	2.5
2945.8589	7.00	-4.67	112965.330	3.5	116359.000	2.5
2945.8589	7.00	-3.08	112965.330	3.5	116359.000	3.5
2946.1802	7.00	-2.73	112957.700	1.5	116351.000	.5
2946.3598	14.00	-.26	53387.334	1.0	56780.427	1.0
2946.4832	20.00	-1.54	44989.830	2.0	48382.781	3.0
2946.5536	20.00	-2.48	44989.830	2.0	48382.700	2.0
2946.6264	17.00	-1.30	91089.450	3.5	94482.236	2.5
2946.7446	25.00	-2.42	59360.720	2.5	62753.370	2.5
2946.9704	28.01	-4.44	130815.910	3.5	134208.300	2.5
2947.0225	16.00	-.55	76719.800	1.0	80112.130	2.0
2947.0573	9.00	-1.30	130221.120	1.5	133613.410	.5
2947.1094	23.00	-9.09	14910.040	3.5	18302.270	3.5
2947.3614	7.00	-2.75	112967.060	4.5	116359.000	3.5
2947.4570	7.00	-3.92	112967.170	3.5	116359.000	3.5
2947.9089	9.00	-.17	129607.070	.5	132998.380	1.5
2948.2132	18.01	.45	211606.470	3.5	214997.430	4.5
2948.2149	26.00	-2.97	50880.152	1.0	54271.110	1.0
2948.6132	8.01	.38	257963.800	2.5	261354.300	2.5
2948.7001	28.01	-4.34	102742.740	1.5	106133.140	1.5
2948.7610	18.01	-1.22	211606.470	3.5	214996.800	3.5
2948.8045	27.00	-4.26	45688.150	2.5	49078.430	1.5
2949.2543	7.00	-1.59	106996.032	1.5	110385.795	.5
2949.2612	14.00	-2.39	60962.105	2.0	64351.860	1.0
2949.2699	14.00	-3.25	60962.105	2.0	64351.850	3.0
2949.3526	28.01	-2.16	120044.950	4.5	123434.600	4.5
2949.3856	22.00	-2.95	25438.898	2.0	28828.510	2.0
2949.4039	26.00	-4.62	53393.715	4.0	56783.306	3.0
2949.6833	24.00	.60	42254.110	3.0	45643.380	3.0
2949.9165	14.00	-3.08	60381.278	1.0	63770.280	1.0
2949.9269	6.00	-1.91	85169.610	0.0	88558.600	1.0
2950.0140	14.00	-2.20	59032.140	2.0	62421.030	3.0
2950.0924	17.00	.56	91343.500	2.5	94732.300	3.5
2950.1637	22.00	-3.58	25493.722	2.0	28882.440	3.0
2950.2386	7.00	-2.01	111501.368	1.5	114890.000	1.5
2950.2447	28.00	-2.79	51343.800	2.0	54732.425	2.0
2950.2664	15.00	-4.57	78133.500	2.5	81522.100	2.5
2950.3971	18.01	-.03	211586.110	2.5	214974.560	3.5
2950.4493	18.01	-.39	211586.110	2.5	214974.500	2.5
2950.5695	14.00	-1.57	60496.358	2.0	63884.610	1.0
2950.7219	28.00	-2.59	47328.850	2.0	50716.927	1.0
2950.8525	26.00	-4.09	47831.132	2.0	51219.059	3.0
2951.1374	25.00	-3.14	53103.190	1.5	56490.790	2.5
2951.4249	18.01	-.48	201608.820	3.5	204996.090	3.5
2951.4859	30.02	-3.07	296720.900	3.0	300108.100	3.0
2951.8781	14.00	-2.09	60856.630	1.0	64243.380	2.0
2952.0437	28.01	-3.80	53037.930	2.5	56424.490	1.5
2952.1657	37.00	-1.75	27835.020	0.0	31222.364	0.0
2952.5581	23.00	-3.23	38106.320	2.5	41492.290	3.5
2952.6191	29.01	-2.65	135733.600	3.0	139119.500	3.0
2952.9156	23.00	-3.27	38003.930	1.5	41389.490	1.5
2952.9330	18.01	-.85	211593.440	4.5	214978.980	4.5
2953.0168	17.00	-4.48	97667.396	3.5	101052.840	2.5
2953.0377	23.00	-3.86	33640.180	4.5	37025.600	3.5
2953.0377	18.01	-4.59	211593.440	4.5	214978.860	5.5
2953.0726	24.00	-4.47	51286.520	2.0	54671.900	1.0
2953.0901	18.01	-1.26	199959.620	2.5	203344.980	1.5
2953.7881	28.01	-3.81	116838.330	1.5	120222.890	1.5
2953.7951	17.00	-1.80	98418.890	3.5	101803.442	2.5
2953.9190	23.00	-1.97	34619.520	2.5	38003.930	1.5
2953.9783	17.00	-2.54	98419.100	2.5	101803.442	2.5
2954.3345	26.00	-1.83	47966.571	3.0	51350.505	4.0
2954.3380	18.00	-2.40	120753.520	3.0	124137.450	2.0
2954.4777	18.00	-1.18	120753.520	3.0	124137.290	3.0
2954.6262	13.01	-.14	146185.000	2.0	149568.600	3.0
2954.6262	13.01	-1.05	146185.000	3.0	149568.600	3.0
2954.6759	17.00	-.56	92151.380	.5	95534.923	.5
2954.8881	28.01	-3.50	132818.160	4.5	136201.460	3.5
2955.3772	18.01	-.53	210477.770	3.5	213860.510	3.5
2955.4734	18.01	-.12	210477.770	3.5	213860.400	4.5
2955.5826	26.00	-3.75	40052.080	2.0	43434.585	3.0
2955.6325	14.00	-2.46	58774.368	3.0	62156.816	2.0
2955.8316	18.00	-1.11	120753.520	3.0	124135.740	3.0
2955.8316	18.00	.22	120753.520	3.0	124135.740	4.0
2956.0152	22.00	-3.28	38670.710	4.0	42052.720	3.0
2956.2774	23.02	-2.58	158187.700	.5	161569.410	1.5
2956.3561	18.00	-4.68	122707.940	3.0	126089.560	3.0
2956.3911	25.00	-3.38	53109.210	2.5	56490.790	2.5
2956.3911	18.01	.55	210477.770	3.5	213859.350	4.5
2956.5791	14.00	-2.53	58775.451	2.0	62156.816	2.0
2956.5834	10.01	-3.25	303928.100	.5	307309.460	.5
2956.7933	10.01	-.75	303518.210	1.5	306899.330	2.5
2956.7933	18.01	-2.30	211593.440	4.5	214974.560	3.5
2956.8021	7.00	-3.53	112877.890	3.5	116259.000	2.5
2957.0058	17.00	-4.56	98373.430	2.5	101754.307	3.5
2957.2306	6.00	-1.31	85203.640	2.0	88584.260	2.0
2957.2656	15.00	-.65	66544.120	2.5	69924.700	2.5
2957.4231	15.00	-2.68	76021.600	1.5	79402.000	2.5
2957.4581	27.00	-4.62	49484.050	3.5	52864.410	4.5
2957.4931	23.00	-3.50	33695.320	5.5	37075.640	4.5
2957.6024	7.00	-4.21	106814.459	2.5	110194.654	1.5
2957.6155	6.00	-3.82	83838.080	2.0	87218.260	2.0
2957.6856	28.01	-4.40	116786.420	.5	120166.520	1.5
2957.9376	14.00	-3.31	60706.558	1.0	64086.370	1.0
2958.2545	6.00	-1.95	85169.610	0.0	88549.060	1.0
2958.7649	18.00	-3.12	121270.682	2.0	124649.549	3.0
2958.8691	17.00	-3.02	97674.092	3.5	101052.840	2.5
2958.8761	26.00	-4.57	51304.650	4.0	54683.390	4.0
2958.8936	7.00	-2.05	106477.800	.5	109856.520	1.5
2958.9523	7.00	-3.12	106868.635	3.5	110247.288	3.5
2958.9987	30.02	-4.22	257908.200	1.0	261286.800	1.0
2959.0775	17.00	-3.47	97674.330	2.5	101052.840	2.5
2959.0862	7.00	-4.75	112880.500	2.5	116259.000	1.5
2959.0862	7.00	-3.99	112880.500	2.5	116259.000	2.5
2959.1300	18.01	.18	210512.980	1.5	213891.430	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2959.2615	18.00	-4.29	122686.200	1.0	126064.500	2.0
2959.3140	18.01	-.15	210512.980	1.5	213891.220	1.5
2959.4366	18.00	-3.45	122686.400	2.0	126064.500	2.0
2959.4822	17.00	-2.13	96594.096	.5	99972.144	.5
2959.6382	18.01	-.44	192712.000	1.5	196089.870	2.5
2960.2253	30.02	-4.22	296720.900	3.0	300098.100	4.0
2960.6286	23.00	-3.57	37075.640	4.5	40452.380	5.5
2960.6637	29.01	-1.77	137212.700	1.0	140589.400	0.0
2960.6838	14.00	-1.92	60487.103	1.0	63863.780	2.0
2960.6856	26.00	-3.51	45551.748	1.0	48928.423	2.0
2960.8829	28.01	-3.44	132912.150	2.5	136288.600	2.5
2961.4003	14.01	-1.65	124822.340	3.5	128198.200	3.5
2961.4003	14.01	-.11	124822.340	3.5	128198.200	4.5
2961.4012	14.00	-1.90	60645.441	2.0	64021.300	2.0
2961.4530	14.01	-.22	124822.400	2.5	128198.200	3.5
2961.5144	25.00	-4.07	56356.210	3.5	59731.940	4.5
2961.7074	24.00	-3.57	45286.080	4.0	48661.590	3.0
2961.8654	25.00	-3.89	59257.440	4.5	62632.770	3.5
2962.4007	18.01	-3.58	196305.040	3.5	199679.760	2.5
2962.4183	8.01	-3.98	252608.900	3.5	255983.600	4.5
2962.7870	29.01	-2.61	115665.400	1.0	119039.680	2.0
2963.0066	10.00	-3.12	169976.740	0.0	173350.770	1.0
2963.0690	14.00	-.90	60645.441	2.0	64019.400	3.0
2963.4264	7.00	-.19	103622.480	.5	106996.032	1.5
2963.4413	26.00	-4.83	47606.092	5.0	50979.627	4.0
2963.6302	29.01	-3.01	136336.880	1.0	139710.200	2.0
2963.7005	55.00	-2.39	26047.860	0.0	29422.020	0.0
2963.9817	18.00	-2.63	119847.810	1.0	123220.730	2.0
2964.2014	22.00	-2.52	38544.380	3.0	41917.050	4.0
2964.2365	27.00	-4.71	49484.050	3.5	52856.680	3.5
2964.2576	26.00	-3.46	44664.061	2.0	48036.667	2.0
2964.3420	18.01	-1.22	211606.470	3.5	214978.980	4.5
2964.5266	17.01	-4.57	161989.800	1.0	165362.100	0.0
2964.6936	28.01	-4.07	118897.940	2.5	122270.050	3.5
2964.8853	22.00	-4.15	38451.298	2.0	41823.190	3.0
2964.9003	14.00	-.94	60815.925	2.0	64187.800	3.0
2965.2564	22.00	-3.99	36414.470	3.0	39785.940	4.0
2965.3083	20.00	-.89	41679.008	1.0	45050.419	2.0
2965.4059	7.00	-3.38	112868.700	3.5	116240.000	2.5
2965.6206	17.00	-1.76	97674.330	2.5	101045.386	1.5
2965.7754	23.02	-4.90	161027.320	4.5	164398.200	4.5
2965.7780	17.00	-1.66	98383.430	4.5	101754.307	3.5
2965.9866	18.01	-2.73	205221.470	1.5	208592.110	.5
2966.0332	17.00	-2.64	98383.720	3.5	101754.307	3.5
2966.2770	18.01	-2.21	205221.470	1.5	208591.780	1.5
2966.4178	18.01	-1.81	196076.390	1.5	199446.540	.5
2966.4266	18.01	.68	212071.800	3.5	215441.940	4.5
2966.4354	24.00	-4.78	48661.590	3.0	52031.720	3.0
2966.4926	20.00	-.52	41679.008	1.0	45049.073	1.0
2966.5886	14.00	-1.32	58786.860	3.0	62156.816	2.0
2966.6036	7.00	-.06	103667.130	1.5	107037.069	2.5
2966.6379	29.01	-1.17	137614.300	0.0	140984.200	1.0
2966.6379	18.01	-.86	212071.800	3.5	215441.700	3.5
2966.7260	8.01	-4.25	252607.700	4.5	255977.500	5.5
2966.8404	10.00	-2.52	169727.630	1.0	173097.300	0.0
2966.8580	6.00	-2.85	85188.950	1.0	88558.600	1.0
2966.9601	7.00	-1.35	106980.480	.5	110350.014	.5
2967.0517	6.00	-2.20	83848.830	3.0	87218.260	2.0
2967.3318	14.00	-1.45	60381.278	1.0	63750.390	1.0
2967.4031	18.00	-4.04	121011.979	1.0	124381.010	2.0
2967.5009	25.00	-4.73	59384.450	1.5	62753.370	2.5
2967.6074	18.00	-4.65	120188.660	2.0	123557.459	3.0
2967.6330	18.01	-2.22	201608.820	3.5	204977.590	2.5
2967.7229	28.00	-3.92	48671.900	3.0	52040.568	2.0
2967.7537	17.00	-2.12	97807.707	2.5	101176.340	2.5
2967.8207	17.00	-2.28	96313.330	1.5	99681.887	1.5
2967.8779	20.00	-1.41	42518.708	1.0	45887.200	0.0
2967.9025	17.00	-.82	97807.707	2.5	101176.171	3.5
2968.1528	24.00	.70	42275.200	4.0	45643.380	3.0
2968.2321	18.01	-.51	211606.470	3.5	214974.560	3.5
2968.2850	18.01	-2.00	211606.470	3.5	214974.500	2.5
2968.8210	14.00	-1.79	60496.358	2.0	63863.780	2.0
2969.3086	7.00	-.47	104221.600	1.5	107588.469	.5
2969.4144	10.00	-2.85	168924.651	2.0	172291.400	1.0
2969.4144	10.00	-1.98	168924.651	2.0	172291.400	2.0
2969.4576	25.00	-3.01	53124.090	3.5	56490.790	2.5
2969.9420	7.00	.28	107037.069	2.5	110403.220	3.5
2970.0046	28.01	-4.70	118809.340	1.5	122175.420	2.5
2970.2340	6.00	-4.21	83747.390	2.0	87113.210	2.0
2970.3611	17.00	-3.93	90948.530	1.5	94314.206	1.5
2970.6532	14.00	-.82	57450.580	3.0	60815.925	2.0
2971.1264	55.00	-.99	24317.151	0.0	27682.878	0.0
2971.1344	18.01	.57	212076.900	2.5	215441.700	3.5
2971.4055	10.00	-2.05	159534.620	1.0	162899.113	2.0
2971.4965	18.01	-1.46	192712.000	1.5	196076.390	1.5
2971.5494	18.01	-.89	210527.100	2.5	213891.430	2.5
2971.5874	7.00	-.68	107037.069	2.5	110401.356	2.5
2971.5927	26.00	-4.66	47929.981	4.0	51294.262	3.0
2971.6201	18.01	-2.15	196315.510	2.5	199679.760	2.5
2971.7350	18.01	-4.01	210527.100	2.5	213891.220	1.5
2971.7526	13.01	-.51	139242.900	3.0	142607.000	2.0
2971.9647	29.01	-2.36	135664.340	1.0	139028.200	2.0
2972.1149	29.01	-3.57	146886.310	1.0	150250.000	2.0
2972.6274	9.00	-1.83	129381.860	2.5	132744.970	1.5
2972.6716	6.00	-1.82	83740.060	0.0	87103.120	1.0
2972.6893	18.01	-3.19	199981.940	1.5	203344.980	1.5
2972.7078	18.00	-3.22	121191.920	2.0	124554.939	1.0
2972.7688	18.01	-4.42	200138.850	3.5	203501.800	2.5
2972.8396	25.00	-3.72	57305.620	3.5	60668.490	4.5
2972.8484	28.01	-3.92	132927.970	1.5	136290.830	.5
2972.8537	26.00	-4.55	51762.120	2.0	55124.974	3.0
2973.2109	9.00	-3.41	130221.120	1.5	133583.570	2.5
2973.4762	21.00	-2.42	33763.570	1.5	37125.720	.5
2973.4771	10.00	-2.85	168924.651	2.0	172286.800	2.0
2973.5116	7.00	-4.86	112877.890	3.5	116240.000	2.5
2973.5204	30.02	-3.32	296720.900	3.0	300083.000	3.0
2973.6770	14.00	-2.33	61562.477	3.0	64924.400	3.0
2973.8300	21.00	-3.77	33154.010	2.5	36515.760	1.5
2974.3078	13.00	-4.36	43831.090	2.5	47192.300	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2974.3113	13.00	-3.06	43831.094	3.5	47192.300	2.5
2974.3432	29.01	-3.72	118163.500	2.0	121524.670	3.0
2974.6264	28.01	-4.82	116838.330	1.5	120199.180	1.5
2974.6529	18.01	-.22	210512.980	1.5	213873.800	2.5
2974.6706	6.00	-1.54	83752.410	1.0	87113.210	2.0
2974.8211	28.01	-4.51	132927.970	1.5	136288.600	2.5
2974.8945	17.00	-2.52	94482.236	2.5	97842.783	1.5
2974.9822	14.00	-.90	61563.952	4.0	64924.400	3.0
2975.2814	6.00	-2.00	85188.950	1.0	88549.060	1.0
2975.4258	10.00	-2.58	168967.353	1.0	172327.300	0.0
2975.6224	17.00	-1.64	97530.130	2.5	100889.855	3.5
2975.8217	7.00	-3.71	112880.500	2.5	116240.000	1.5
2976.0343	23.00	-2.04	34747.060	3.5	38106.320	2.5
2976.1584	10.01	-4.05	302903.650	2.5	306262.770	1.5
2976.2204	27.00	-1.78	46746.000	2.5	50105.050	1.5
2976.6201	14.00	-3.12	61303.381	3.0	64661.980	3.0
2976.6280	28.01	-3.94	101144.630	3.5	104503.220	2.5
2976.7964	18.01	-.63	201720.670	1.5	205079.070	2.5
2976.8017	7.00	-1.07	107037.069	2.5	110395.463	1.5
2977.1510	7.00	-.89	103622.480	.5	106980.480	.5
2977.1953	27.00	-4.60	50578.730	3.5	53936.680	2.5
2977.4196	14.00	-4.43	61304.283	2.0	64661.980	3.0
2977.4879	27.00	-4.12	50925.110	1.5	54282.730	2.5
2977.5509	10.00	-1.80	168924.651	2.0	172282.200	3.0
2977.5615	14.00	-1.17	60487.103	1.0	63844.640	0.0
2977.9447	26.00	-3.57	50534.435	3.0	53891.540	3.0
2978.1266	23.00	-2.98	38242.460	3.5	41599.360	4.5
2978.3448	14.00	-.77	54185.264	1.0	57541.918	1.0
2978.4283	18.00	-3.04	122707.940	3.0	126064.500	2.0
2978.4992	10.01	-3.69	277344.290	2.5	280700.770	3.5
2978.6412	18.00	-3.85	122708.180	2.0	126064.500	2.0
2978.6767	9.00	-1.66	130221.120	1.5	133577.400	1.5
2978.7921	9.00	-.05	126581.180	.5	129937.330	1.5
2978.8108	18.00	.26	113643.260	1.0	116999.389	2.0
2978.8791	28.00	-3.26	51343.800	2.0	54699.852	3.0
2979.0850	55.00	-1.56	26047.860	0.0	29404.595	0.0
2979.1649	6.00	-4.49	83747.390	2.0	87103.120	1.0
2979.1827	28.01	-4.32	118914.340	4.5	122270.050	3.5
2979.4659	26.00	-2.73	44022.518	4.0	47377.909	4.0
2979.5760	14.00	-2.13	61306.713	4.0	64661.980	3.0
2979.6301	17.00	-1.13	91127.030	2.5	94482.236	2.5
2979.6355	30.02	-3.90	296720.900	3.0	300076.100	2.0
2979.8487	6.00	-3.23	85203.640	2.0	88558.600	1.0
2979.8753	28.01	-4.25	132846.530	3.5	136201.460	3.5
2979.9818	6.00	-1.86	85188.950	1.0	88543.760	0.0
2980.3177	26.00	-4.04	48350.620	1.0	51705.052	2.0
2980.4847	26.00	-4.30	33412.706	3.0	36766.950	3.0
2980.7175	7.00	-.65	106996.032	1.5	110350.014	.5
2981.2438	23.00	-4.16	39127.230	1.5	42480.620	.5
2981.5016	23.00	-3.43	37025.600	3.5	40378.700	4.5
2981.6172	23.00	-7.76	14949.300	4.5	18302.270	3.5
2981.6323	22.00	-4.24	38699.767	2.0	42052.720	3.0
2981.8378	22.00	-3.14	25438.898	2.0	28791.620	1.0
2981.8662	28.01	-2.64	130942.300	1.5	134294.990	2.5
2982.0797	6.00	-1.45	85188.950	1.0	88541.400	2.0
2982.1242	17.00	-2.50	98372.970	1.5	101725.370	1.5
2982.1242	13.01	-.68	144780.200	2.0	148132.600	3.0
2982.1749	37.00	-1.22	27870.110	0.0	31223.367	0.0
2982.2398	55.00	-1.47	26068.830	0.0	29422.014	0.0
2982.5246	6.00	-2.95	83761.260	3.0	87113.210	2.0
2982.5334	17.00	-3.51	98373.430	2.5	101725.370	1.5
2982.6304	18.00	-4.15	122440.109	2.0	125791.940	2.0
2982.7648	28.01	-4.27	117763.910	1.5	121115.590	1.5
2983.0763	37.00	-2.18	27870.110	0.0	31222.354	0.0
2983.1742	28.01	-4.55	116838.330	1.5	120189.550	.5
2983.2810	13.01	.23	146274.400	2.0	149625.500	3.0
2983.4644	55.00	-1.04	24472.046	0.0	27823.854	0.0
2983.5036	24.00	-4.61	48661.590	3.0	52012.440	2.0
2983.5481	13.01	-1.62	144781.900	3.0	148132.700	2.0
2983.6256	55.00	-2.34	24472.227	0.0	27823.854	0.0
2983.6283	6.00	-2.05	83752.410	1.0	87103.120	1.0
2983.8331	15.00	-1.79	66544.120	2.5	69894.600	1.5
2983.9399	26.02	-4.45	219415.610	5.0	222765.970	4.0
2984.0824	15.01	-.49	127600.000	1.0	130950.200	2.0
2984.1181	18.01	-1.19	200151.640	1.5	203501.800	2.5
2984.5377	18.00	-2.66	120207.770	4.0	123557.459	3.0
2984.6794	27.00	-1.24	53195.980	2.5	56545.510	2.5
2984.7595	18.01	-1.01	210531.700	5.5	213881.140	5.5
2984.8308	28.01	-2.50	133169.920	3.5	136519.280	4.5
2984.8308	18.01	.88	210531.700	5.5	213881.060	6.5
2985.0269	18.01	-.58	205242.970	.5	208592.110	.5
2985.2230	18.01	-1.73	196633.020	2.5	199981.940	1.5
2985.2854	23.00	-6.35	14910.040	3.5	18258.890	2.5
2985.3211	18.01	-.37	205242.970	.5	208591.780	1.5
2985.3754	28.00	-3.90	47328.850	2.0	50677.599	3.0
2986.0522	28.01	-3.59	117763.910	1.5	121111.900	.5
2986.5964	27.00	-3.58	43398.620	3.5	46746.000	2.5
2986.6678	22.00	-2.21	38670.710	4.0	42018.010	5.0
2987.0336	11.00	-.46	35040.380	.5	38387.270	1.5
2987.0693	28.01	-3.37	118923.200	3.5	122270.050	3.5
2987.1050	28.01	-4.61	118828.610	2.5	122175.420	2.5
2987.1068	12.00	-2.30	54676.438	3.0	58023.246	2.0
2987.1765	18.00	-3.19	121257.227	1.0	124603.957	2.0
2987.2032	18.01	-.49	210527.100	2.5	213873.800	2.5
2987.2925	18.00	-4.14	122717.900	3.0	126064.500	2.0
2987.3496	12.00	-1.30	54676.710	3.0	58023.246	2.0
2987.3496	12.00	-2.99	54676.710	2.0	58023.246	2.0
2987.4085	18.01	-.01	210527.100	2.5	213873.570	3.5
2987.4710	9.02	-3.89	441276.720	2.5	444623.120	3.5
2987.6139	18.01	.76	210534.900	4.5	213881.140	5.5
2988.3462	6.00	-1.78	85203.640	2.0	88549.060	1.0
2988.4623	9.02	-3.66	440582.120	4.5	443927.410	3.5
2988.4936	22.00	-4.32	37824.748	4.0	41170.003	3.0
2988.6294	7.00	-2.46	106758.731	.5	110103.834	1.5
2988.6856	28.01	-3.20	132982.510	1.5	136327.550	1.5
2988.6946	18.00	-4.20	122708.180	2.0	126053.210	2.0
2988.9439	18.00	-4.86	121011.979	1.0	124356.730	2.0
2989.2397	11.00	-1.16	35042.850	1.5	38387.270	1.5
2989.2495	22.00	-3.90	31190.631	2.0	34535.040	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
2989.2513	11.00	-.21	35042.850	1.5	38387.257	2.5
2989.5266	14.00	-3.07	61303.381	3.0	64647.480	3.0
2989.8289	7.00	-4.67	106868.635	3.5	110212.396	2.5
2989.8396	10.00	-2.22	168924.651	2.0	172268.400	1.0
2989.8655	28.01	-3.53	103025.580	2.5	106369.300	1.5
2989.8914	18.00	-4.44	122440.109	2.0	125783.800	1.0
2989.9039	26.00	-3.96	47960.973	4.0	51304.650	4.0
2990.1159	27.00	-3.29	48217.320	3.5	51560.760	2.5
2990.1526	14.00	-3.47	61303.381	3.0	64646.780	2.0
2990.1722	22.00	-3.52	37743.933	3.0	41087.310	3.0
2990.4826	28.01	-3.39	118927.020	4.5	122270.050	3.5
2990.9210	25.00	-2.44	59290.230	3.5	62632.770	3.5
2990.9595	14.00	-3.55	61304.283	2.0	64646.780	2.0
2991.0194	14.00	-2.81	61305.050	3.0	64647.480	3.0
2991.0453	10.00	-2.83	166975.341	1.0	170317.742	2.0
2991.1626	18.01	-.60	201608.820	3.5	204951.090	3.5
2991.1886	7.00	-.52	106980.480	.5	110322.721	1.5
2991.2002	22.00	-4.22	38764.832	3.0	42107.060	4.0
2991.2790	23.00	-2.87	36983.630	1.5	40325.770	2.5
2991.5385	18.01	-4.95	205249.930	2.5	208591.780	1.5
2991.5547	14.00	-2.07	59034.988	3.0	62376.820	3.0
2991.6317	17.00	-3.90	97703.640	1.5	101045.386	1.5
2991.6460	14.00	-3.59	61305.050	3.0	64646.780	2.0
2991.8787	29.01	-4.63	130386.400	2.0	133727.870	2.0
2991.9011	17.00	-3.02	97703.941	2.5	101045.386	1.5
2991.9199	17.00	-1.67	97530.130	2.5	100871.554	3.5
2992.0668	6.00	-1.73	85203.640	2.0	88544.900	3.0
2992.1832	27.00	-3.08	44183.340	4.5	47524.470	4.5
2992.2100	12.02	-1.44	583450.500	1.0	586791.600	2.0
2992.3086	29.01	-1.68	141542.100	2.0	144883.090	2.0
2992.3444	6.00	-.77	83877.310	1.0	87218.260	2.0
2992.5083	14.00	-1.37	61306.713	4.0	64647.480	3.0
2992.5388	17.00	-2.11	92194.190	1.5	95534.923	.5
2992.6490	18.01	-2.60	186074.350	2.5	189414.960	3.5
2992.8120	26.00	-2.77	44415.057	4.0	47755.485	3.0
2992.9482	14.00	-2.44	58801.524	1.0	62141.800	1.0
2992.9697	14.00	-1.36	60381.278	1.0	63721.530	2.0
2993.2421	55.00	-1.38	25791.780	0.0	29132.639	0.0
2993.3954	14.00	-1.37	59037.043	4.0	62376.820	3.0
2993.4017	10.01	-4.45	302903.650	2.5	306243.420	2.5
2993.9664	25.00	-4.81	44978.980	1.5	48318.120	.5
2994.0023	28.01	-1.93	113172.960	4.5	116512.060	3.5
2994.0713	55.00	-1.11	24472.227	0.0	27812.161	0.0
2994.2175	28.01	.18	130470.900	4.5	133809.760	3.5
2994.3520	6.00	-2.07	80782.510	1.0	84121.220	0.0
2994.3879	18.01	-2.39	210534.900	4.5	213873.570	3.5
2994.4596	14.00	-1.44	58893.400	3.0	62231.990	2.0
2994.6121	25.00	-4.85	31124.950	.5	34463.370	1.5
2994.8274	28.01	-4.75	118774.760	.5	122112.940	.5
2994.8364	27.00	-1.41	45105.590	3.5	48443.760	2.5
2995.1953	10.00	-1.85	169727.630	1.0	173065.400	2.0
2995.2043	6.00	-3.36	85203.640	2.0	88541.400	2.0
2995.2222	18.01	-1.48	196621.880	3.5	199959.620	2.5
2995.4888	16.00	-1.78	76653.817	4.0	79991.260	4.0
2995.4906	16.00	-.92	76653.819	5.0	79991.260	4.0
2995.4960	26.00	-3.43	47197.000	2.0	50534.435	3.0
2995.5130	16.00	-2.96	76653.844	3.0	79991.260	4.0
2995.5274	14.02	-.61	254584.600	4.0	257922.000	4.0
2995.5274	14.02	1.03	254584.600	4.0	257922.000	5.0
2995.5274	14.02	-2.64	254584.600	4.0	257922.000	5.0
2995.5794	20.00	-1.06	45425.358	1.0	48762.700	2.0
2995.6889	25.00	-1.59	59416.150	1.5	62753.370	2.5
2995.7069	14.02	-.71	254584.800	4.0	257922.000	4.0
2995.7069	14.02	-3.46	254584.800	4.0	257922.000	5.0
2995.7069	14.02	1.04	254584.800	4.0	257922.000	5.0
2995.7069	14.02	.93	254584.800	3.0	257922.000	4.0
2995.7966	7.00	-4.05	112826.900	2.5	116164.000	2.5
2995.7966	7.00	-4.18	112826.900	3.5	116164.000	2.5
2995.7966	7.00	-5.00	112826.900	3.5	116164.000	3.5
2995.8326	26.00	-3.91	51076.680	4.0	54413.740	3.0
2996.0409	14.00	-.20	54205.090	2.0	57541.918	1.0
2996.2725	23.00	-3.54	36989.200	2.5	40325.770	2.5
2996.4252	15.00	-2.36	76425.200	2.5	79761.600	2.5
2996.5060	9.00	-2.39	130221.120	1.5	133557.430	2.5
2996.5599	14.02	-.61	254585.750	5.0	257922.000	5.0
2996.5599	14.02	-.71	254585.750	5.0	257922.000	5.0
2996.5599	14.02	1.12	254585.750	5.0	257922.000	6.0
2996.5599	14.02	-2.35	254585.750	5.0	257922.000	4.0
2997.0630	17.00	-2.13	97530.130	2.5	100865.820	2.5
2997.0989	28.01	-3.74	118809.340	1.5	122144.990	2.5
2997.1888	18.01	-1.75	201720.670	1.5	205056.220	1.5
2997.3056	26.01	-4.07	84266.480	2.5	87601.900	1.5
2997.3083	17.00	-2.39	98418.890	3.5	101754.307	3.5
2997.4045	18.00	-4.30	122717.900	3.0	126053.210	2.0
2997.4764	17.00	-3.37	97530.130	2.5	100865.360	1.5
2997.4970	17.00	-3.78	98419.100	2.5	101754.307	3.5
2997.5303	10.01	-.37	303974.290	1.5	307309.460	.5
2997.8736	22.00	-4.10	25493.722	2.0	28828.510	2.0
2998.1362	18.00	-3.91	118459.662	1.0	121794.158	0.0
2998.1595	10.01	-.02	304440.240	.5	307774.710	1.5
2998.1775	28.01	-3.68	113177.610	3.5	116512.060	3.5
2998.1928	7.00	-1.99	106477.800	.5	109812.233	.5
2998.2405	25.00	-2.93	57485.970	2.5	60820.350	2.5
2998.3474	14.00	-1.40	57372.297	2.0	60706.558	1.0
2998.6452	18.01	-1.99	211663.500	3.5	214997.430	4.5
2998.9060	27.00	-4.57	50925.110	1.5	54258.750	2.5
2998.9177	20.00	-1.53	45049.073	1.0	48382.700	2.0
2998.9240	20.00	-1.43	45050.419	2.0	48384.039	3.0
2998.9600	6.00	-1.82	80782.510	1.0	84116.090	1.0
2998.9807	17.00	-.71	97842.783	1.5	101176.340	2.5
2999.0500	28.01	-4.78	53037.930	2.5	56371.410	3.5
2999.1129	18.01	.26	210527.100	2.5	213860.510	3.5
2999.1219	15.00	-4.98	78069.000	1.5	81402.400	2.5
2999.1489	24.00	-4.21	45225.200	2.0	48558.570	2.0
2999.2119	18.01	-.78	211663.500	3.5	214996.800	3.5
2999.2344	18.00	-2.03	121270.682	2.0	124603.957	2.0
2999.3424	14.00	-1.37	60962.105	2.0	64295.260	3.0
2999.3721	14.00	-4.98	60381.278	1.0	63714.400	2.0
2999.4233	12.00	-3.21	56968.218	3.0	60301.283	2.0
2999.4233	12.00	-1.88	56968.218	3.0	60301.283	3.0
2999.4233	12.00	-2.08	56968.218	3.0	60301.283	3.0
2999.4233	12.00	-.60	56968.218	3.0	60301.283	4.0
2999.4503	12.00	-1.84	56968.248	2.0	60301.283	2.0
2999.4503	12.00	-.96	56968.248	2.0	60301.283	3.0
2999.4503	12.00	-1.76	56968.248	2.0	60301.283	3.0
2999.4710	12.00	-.94	56968.271	1.0	60301.283	2.0
3000.0562	20.00	-1.81	45050.419	2.0	48382.781	3.0
3000.1119	28.01	-3.67	132869.160	3.5	136201.460	3.5
3000.1291	20.00	-2.66	45050.419	2.0	48382.700	2.0
3000.1722	14.00	-3.73	57372.297	2.0	60704.530	3.0
3000.2920	7.00	-4.30	112826.900	2.5	116159.000	2.5
3000.2920	7.00	-3.18	112826.900	3.5	116159.000	2.5
3000.2920	7.00	-4.30	112826.900	3.5	116159.000	3.5
3000.8684	25.00	-4.33	46083.890	1.5	49415.350	2.5
3000.9314	17.00	-3.30	84648.100	2.5	87979.490	3.5
3001.0936	9.02	-1.16	440582.120	4.5	443913.330	4.5
3001.1234	12.00	-2.08	57204.163	3.0	60535.340	2.0
3001.1234	12.00	-3.27	57204.163	3.0	60535.340	3.0
3001.2243	12.00	-3.22	57204.275	2.0	60535.340	2.0
3001.2243	12.00	-2.31	57204.275	2.0	60535.340	1.0
3001.2243	12.00	-4.59	57204.275	2.0	60535.340	3.0
3001.2243	12.00	-3.43	57204.275	3.0	60535.340	3.0
3001.2243	12.00	-1.98	57204.275	4.0	60535.340	3.0
3001.7406	26.00	-3.15	47092.693	3.0	50423.185	4.0
3001.7992	20.00	-1.20	45052.374	3.0	48382.801	4.0
3001.8172	20.00	-2.27	45052.374	3.0	48382.781	3.0
3001.8902	20.00	-3.81	45052.374	3.0	48382.700	2.0
3002.4456	23.02	-3.75	158239.700	2.5	161569.410	1.5
3002.5538	7.01	-3.82	206910.240	0.0	210239.830	1.0
3002.5808	28.01	-1.81	134238.440	6.5	137568.000	7.5
3002.8090	28.00	-1.37	47424.830	1.0	50754.137	2.0
3002.8965	28.01	-1.96	130480.550	3.5	133809.760	3.5
3003.0363	22.00	-2.69	31205.985	3.0	34535.040	2.0
3003.1039	18.01	-.21	201608.820	3.5	204937.800	4.5
3003.1743	7.00	-.59	103667.130	1.5	106996.032	1.5
3003.3295	29.01	-3.92	115662.770	4.0	118991.500	4.0
3003.3566	18.01	-1.90	210531.700	5.5	213860.400	4.5
3003.4649	28.01	-2.88	116468.400	1.5	119796.980	2.5
3003.5244	28.00	-2.35	47208.228	1.0	50536.742	1.0
3003.8168	28.01	-4.25	116838.330	1.5	120166.520	1.5
3004.0515	18.01	-.43	199679.760	2.5	203007.690	1.5
3004.2672	26.00	-3.38	47966.571	3.0	51294.262	3.0
3004.3042	18.01	-2.01	210531.700	5.5	213859.350	4.5
3004.3051	18.00	-3.36	120229.810	3.0	123557.459	3.0
3004.3313	18.01	-.19	211669.180	2.5	214996.800	3.5
3004.3584	28.01	-4.30	129842.330	2.5	133169.920	3.5
3004.4036	18.01	-.19	210531.700	5.5	213859.240	5.5
3004.4487	22.00	-4.29	38544.380	3.0	41871.870	2.0
3004.5400	18.00	-4.12	120230.070	2.0	123557.459	3.0
3004.8949	14.00	-1.47	61597.404	3.0	64924.400	3.0
3004.9273	28.01	-4.71	109846.000	3.5	113172.960	4.5
3004.9725	25.00	-4.65	56490.790	2.5	59817.700	2.5
3005.0628	22.00	-2.96	34327.960	1.0	37654.770	2.0
3005.1721	7.00	-.95	106996.032	1.5	110322.721	1.5
3005.2526	18.01	-3.47	196633.020	2.5	199959.620	2.5
3005.5643	14.00	-2.84	61598.145	2.0	64924.400	3.0
3005.7224	28.01	-3.56	133001.470	.5	136327.550	1.5
3005.7585	28.01	1.06	136508.200	5.5	139834.240	6.5
3006.1291	23.00	-3.91	36989.200	2.5	40314.830	3.5
3006.1471	18.01	-2.31	210534.900	4.5	213860.510	3.5
3006.2466	18.01	-1.26	210534.900	4.5	213860.400	4.5
3006.2493	7.00	-1.65	106778.337	1.5	110103.834	1.5
3006.2728	17.00	-1.38	94482.236	2.5	97807.707	2.5
3006.7439	6.00	-1.71	83752.410	1.0	87077.360	0.0
3007.0894	26.00	-4.56	47555.584	1.0	50880.152	1.0
3007.1508	18.01	-1.06	200406.360	.5	203730.860	1.5
3007.1599	9.00	-.42	126282.580	1.5	129607.070	.5
3007.1961	18.01	-.46	210534.900	4.5	213859.350	4.5
3007.2956	18.01	-.12	210534.900	4.5	213859.240	5.5
3007.3318	30.02	-3.65	257962.500	2.0	261286.800	1.0
3007.5606	10.00	-2.19	168967.353	1.0	172291.400	1.0
3007.5606	10.00	-3.05	168967.353	1.0	172291.400	2.0
3007.6122	14.00	-1.08	59221.110	0.0	62545.100	1.0
3008.0828	28.01	-3.70	105439.850	1.5	108763.320	.5
3008.2005	17.00	-1.20	97666.650	4.5	100989.990	3.5
3008.4540	20.01	-.64	83458.080	3.5	86781.140	3.5
3008.4540	20.01	.91	83458.080	3.5	86781.140	4.5
3008.4540	20.01	.79	83458.080	2.5	86781.140	3.5
3008.5627	18.00	-3.98	122160.220	3.0	125483.160	3.0
3008.7392	14.00	-1.61	59273.575	1.0	62596.320	2.0
3008.7437	21.00	-3.66	33763.570	1.5	37086.310	1.5
3008.8614	23.00	-3.80	38106.320	2.5	41428.930	2.5
3008.8669	14.00	-1.10	56978.256	1.0	60300.860	2.0
3008.8759	17.00	-2.13	97667.396	3.5	100989.990	3.5
3008.9791	18.00	-4.54	122160.220	3.0	125482.700	3.0
3008.9791	18.00	-2.84	122160.220	3.0	125482.700	4.0
3009.0516	28.01	1.12	135606.300	6.5	138928.700	7.5
3009.2600	6.00	-1.08	83791.040	2.0	87113.210	2.0
3009.7220	28.01	-3.10	113753.040	4.5	117074.700	3.5
3009.9032	16.00	-.96	76463.160	2.0	79784.620	3.0
3010.3319	55.00	-.25	11178.270	0.0	14500.163	0.0
3010.6646	18.00	-1.94	120188.340	1.0	123508.960	0.0
3010.6918	6.00	-3.66	80782.510	1.0	84103.100	2.0
3010.9185	28.01	.46	134252.850	3.5	137573.190	3.5
3010.9185	28.01	.69	134252.850	3.5	137573.190	4.5
3010.9638	27.00	-4.73	43425.710	2.5	46746.000	2.5
3011.0164	10.00	-4.58	166656.508	1.0	169976.740	0.0
3011.0727	17.00	.19	91343.500	2.5	94663.670	1.5
3011.1008	55.00	-1.63	24317.151	0.0	27638.196	0.0
3011.2087	28.01	-3.88	116824.150	2.5	120144.170	2.5
3011.6350	24.00	-4.78	42648.260	3.0	45967.810	2.0
3011.7285	10.00	-1.93	168967.353	1.0	172286.800	2.0
3011.8165	25.00	-2.59	52870.100	3.5	56189.450	4.5
3011.8619	15.00	-1.64	72386.100	2.5	75705.400	3.5
3011.9980	28.01	-3.71	97273.830	2.5	100592.980	3.5
3012.3791	14.02	.87	240549.770	2.0	243868.500	3.0
3012.3882	26.02	-3.74	219415.610	5.0	222734.330	4.0
3012.6978	14.00	-4.83	47284.061	1.0	50602.440	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3012.9330	18.01	-3.92	199879.320	3.5	203197.440	3.5
3012.9602	26.00	-4.49	51365.300	3.0	54683.390	4.0
3012.9639	18.00	-2.20	121470.304	0.0	124788.390	1.0
3013.2236	15.00	-2.01	76021.600	1.5	79339.400	1.5
3013.3325	22.00	-4.09	38670.710	4.0	41988.390	3.0
3013.3598	10.00	-4.52	167000.034	4.0	170317.684	4.0
3013.7722	18.00	-2.98	120188.340	1.0	123505.536	2.0
3013.8049	18.00	-2.85	122514.290	1.0	125831.450	0.0
3013.8231	28.01	-3.38	134256.050	2.5	137573.190	3.5
3013.9139	27.00	-4.65	51160.030	2.5	54477.070	3.5
3013.9675	22.00	-3.33	34535.040	2.0	37852.021	1.0
3014.0630	18.00	-2.12	120188.660	2.0	123505.536	2.0
3014.2047	28.01	1.17	134251.300	7.5	137568.020	8.5
3014.2138	12.00	-1.30	54706.536	1.0	58023.246	2.0
3014.2229	28.01	.27	134251.300	7.5	137568.000	7.5
3014.2665	14.00	-1.40	57328.789	1.0	60645.441	2.0
3014.3083	14.00	-1.68	60705.464	3.0	64022.070	3.0
3014.3211	10.00	-4.58	167001.130	3.0	170317.722	3.0
3014.3556	10.00	-4.86	167001.130	3.0	170317.684	4.0
3014.5137	28.01	-3.93	118828.610	2.5	122144.990	2.5
3014.6046	27.00	-3.29	48753.720	1.5	52070.000	2.5
3014.6955	23.00	-3.12	36983.630	1.5	40299.810	.5
3014.9519	17.00	-2.73	97674.092	3.5	100989.990	3.5
3015.0083	14.00	-2.68	60705.464	3.0	64021.300	2.0
3015.1684	17.00	-3.56	97674.330	2.5	100989.990	3.5
3015.3138	13.01	-.23	142958.900	1.0	146274.400	2.0
3015.3320	18.01	.78	211663.500	3.5	214978.980	4.5
3015.4594	6.01	-.64	184376.060	3.5	187691.400	3.5
3015.4594	6.01	.91	184376.060	3.5	187691.400	4.5
3015.4594	6.01	.80	184376.060	2.5	187691.400	3.5
3015.7541	11.00	-2.13	37036.754	2.5	40351.770	2.5
3015.7541	11.00	-.83	37036.754	2.5	40351.770	3.5
3015.7686	28.01	-3.60	115785.060	1.5	119100.060	1.5
3015.7723	11.00	-.99	37036.774	1.5	40351.770	2.5
3015.8214	14.00	-1.33	59034.988	3.0	62349.930	2.0
3015.9325	6.00	-1.90	80801.270	2.0	84116.090	1.0
3015.9506	13.01	.29	139286.800	2.0	142601.600	3.0
3016.0907	14.00	-.90	60705.464	3.0	64020.110	4.0
3016.2600	6.00	-.24	80562.850	1.0	83877.310	1.0
3016.4056	18.01	-2.20	186340.480	1.5	189654.780	2.5
3016.7369	14.00	-1.91	60705.464	3.0	64019.400	3.0
3016.9062	28.01	-4.44	130942.300	1.5	134256.050	2.5
3017.1156	17.00	-4.15	97739.320	1.5	101052.840	2.5
3017.1157	29.01	-2.93	146936.480	2.0	150250.000	2.0
3017.2623	14.00	-3.00	61303.381	3.0	64616.740	2.0
3017.2705	7.00	-.10	103667.130	1.5	106980.480	.5
3017.7896	26.02	-4.28	198717.600	4.0	202030.380	3.0
3017.9190	28.00	-2.52	44112.192	1.0	47424.830	1.0
3018.0620	18.00	-4.12	122479.459	1.0	125791.940	2.0
3018.0757	18.00	-1.97	121470.304	0.0	124782.770	1.0
3018.0839	14.00	-4.86	61304.283	2.0	64616.740	2.0
3018.1358	7.00	-4.15	112946.600	.5	116259.000	.5
3018.1358	7.00	-4.31	112946.600	.5	116259.000	1.5
3018.1358	7.00	-3.95	112946.600	1.5	116259.000	.5
3018.1358	7.00	-4.23	112946.600	1.5	116259.000	1.5
3018.1358	7.00	-4.90	112946.600	1.5	116259.000	2.5
3018.1449	28.01	-2.33	130942.300	1.5	134254.690	1.5
3018.4274	6.00	-1.42	83791.040	2.0	87103.120	1.0
3018.7264	14.00	-4.69	60706.558	1.0	64018.310	1.0
3018.7829	14.00	-3.11	61305.050	3.0	64616.740	2.0
3018.8285	9.02	-3.96	441158.600	1.5	444470.240	1.5
3019.1986	26.00	-3.98	45220.662	3.0	48531.896	3.0
3019.2387	24.00	-4.77	54078.130	5.0	57389.320	6.0
3019.3026	28.01	-1.67	134262.070	3.5	137573.190	4.5
3019.3026	28.01	-2.06	134262.070	3.5	137573.190	3.5
3019.3572	18.01	-2.73	211663.500	3.5	214974.560	3.5
3019.3892	26.00	-4.04	53281.735	5.0	56592.760	4.0
3019.4120	18.01	-2.29	211663.500	3.5	214974.500	2.5
3019.5744	20.00	-.06	41679.008	1.0	44989.830	2.0
3019.5761	56.01	.13	58025.180	0.0	61336.903	0.0
3020.0477	10.00	-.09	162517.872	1.0	165828.175	2.0
3020.2968	28.01	-3.22	118774.760	.5	122084.790	1.5
3020.4337	25.00	-3.56	59116.600	2.5	62426.480	3.5
3020.6254	6.00	-3.87	85188.950	1.0	88498.620	2.0
3020.7842	26.00	-4.93	51373.894	5.0	54683.390	4.0
3021.3374	6.00	-1.55	84032.150	1.0	87341.040	0.0
3021.4871	17.00	-1.10	91173.510	1.5	94482.236	2.5
3021.7209	26.02	-3.56	202429.040	1.0	205737.510	2.0
3021.7803	22.00	-3.96	25643.695	3.0	28952.100	4.0
3021.8579	28.01	-3.84	132982.510	1.5	136290.830	.5
3021.8853	26.01	-4.55	84326.910	1.5	87635.200	.5
3022.0004	14.00	-2.61	59917.336	2.0	63225.500	2.0
3022.0589	13.01	-1.02	144781.900	3.0	148090.000	2.0
3022.0589	13.01	-1.92	144781.900	3.0	148090.000	3.0
3022.2051	28.01	-.48	134267.200	6.5	137575.140	5.5
3022.2416	15.00	-1.81	72884.400	2.5	76192.300	1.5
3022.4427	14.03	.68	332743.870	.5	336051.550	1.5
3022.4701	28.01	-4.16	130900.650	2.5	134208.300	2.5
3022.4865	7.00	-3.02	111501.368	1.5	114809.000	.5
3022.5158	15.00	-3.93	76875.400	1.5	80183.000	2.5
3022.6802	28.01	-4.03	130942.300	1.5	134249.720	1.5
3022.7817	18.00	-3.51	120250.150	3.0	123557.459	3.0
3022.7817	18.00	-3.89	120250.150	4.0	123557.459	3.0
3022.8539	14.00	-2.94	61617.170	4.0	64924.400	3.0
3022.9361	17.00	-1.45	98693.220	2.5	102000.360	1.5
3023.4756	18.01	-.08	210584.880	1.5	213891.430	2.5
3023.6621	17.00	-3.14	97739.040	.5	101045.386	1.5
3023.6675	18.01	-2.90	210584.880	1.5	213891.220	1.5
3023.7316	17.00	-1.41	98419.100	2.5	101725.370	1.5
3023.8148	10.00	-3.00	167011.563	2.0	170317.742	2.0
3023.8377	26.00	-3.86	50698.666	2.0	54004.820	3.0
3023.8962	28.01	-4.09	132982.510	1.5	136288.600	2.5
3023.9100	10.00	-1.86	167011.563	2.0	170317.638	3.0
3023.9182	17.00	-2.03	97739.320	1.5	101045.386	1.5
3024.2347	24.00	-4.52	45701.840	1.0	48507.560	1.0
3024.4726	25.00	-3.70	59600.350	2.5	62905.810	2.5
3024.5403	22.00	-4.09	37538.804	2.0	40844.190	3.0
3024.5458	18.01	.43	211669.180	2.5	214974.560	3.5
3024.6007	26.01	-2.07	84266.480	2.5	87571.800	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3024.6007	18.01	-2.07	211669.180	2.5	214974.500	2.5
3024.6098	26.01	.20	84035.090	6.5	87340.400	5.5
3024.6556	28.00	-3.33	48735.308	2.0	52040.568	2.0
3025.0400	18.00	-2.61	120753.520	3.0	124058.360	3.0
3025.0400	18.00	-2.11	120753.520	3.0	124058.360	4.0
3025.0492	18.01	-4.69	211606.470	3.5	214911.300	2.5
3025.4967	18.00	-4.99	122479.459	1.0	125783.800	1.0
3025.5526	22.00	-4.08	38654.230	1.0	41958.510	2.0
3025.8621	7.00	-.04	106996.032	1.5	110299.974	2.5
3026.2212	28.01	.76	134271.590	4.5	137575.140	5.5
3026.6335	15.00	-.95	72386.100	2.5	75689.200	1.5
3026.6701	24.00	-3.88	45255.510	3.0	48558.570	2.0
3026.7251	14.00	-3.09	59118.030	3.0	62421.030	3.0
3026.7315	7.00	-4.34	112294.007	.5	115597.000	1.5
3026.8406	12.00	-1.05	54706.536	1.0	58009.410	0.0
3026.9909	26.02	-2.03	201892.440	5.0	205195.150	5.0
3027.0642	20.00	-1.97	44955.670	0.0	48258.300	1.0
3027.4630	7.00	-4.24	112319.805	1.5	115622.000	2.5
3027.6418	29.01	-1.75	145901.100	1.0	149203.100	0.0
3027.7976	6.00	-2.45	80801.270	2.0	84103.100	2.0
3027.8985	28.01	-3.03	135261.990	4.5	138563.710	3.5
3027.9912	7.00	.32	103735.450	2.5	107037.069	2.5
3028.0086	28.01	-3.71	134271.590	4.5	137573.190	4.5
3028.0086	28.01	-4.64	134271.590	4.5	137573.190	3.5
3028.0361	28.01	-4.89	111783.790	3.5	115085.360	3.5
3028.2608	20.00	-1.63	44957.655	1.0	48258.980	2.0
3028.2746	28.01	-3.90	118874.110	3.5	122175.420	2.5
3028.2837	7.00	-4.45	112957.700	1.5	116259.000	.5
3028.2837	7.00	-3.85	112957.700	1.5	116259.000	1.5
3028.2837	7.00	-4.90	112957.700	2.5	116259.000	2.5
3028.5158	10.00	-3.01	168967.353	1.0	172268.400	1.0
3028.6177	22.00	-3.73	18287.560	4.0	21588.496	4.0
3028.7131	7.00	-1.34	104144.790	.5	107445.622	1.5
3028.7424	28.01	1.05	134267.200	6.5	137568.000	7.5
3028.8847	20.00	-2.10	44957.655	1.0	48258.300	1.0
3028.8957	26.00	-4.00	45061.287	3.0	48361.920	4.0
3028.9443	18.00	-4.16	120753.520	3.0	124054.100	3.0
3028.9994	28.01	.56	134274.620	5.5	137575.140	5.5
3029.1921	22.00	-4.76	36340.670	2.0	39640.980	3.0
3029.3206	23.00	-3.35	37025.600	3.5	40325.770	2.5
3029.7035	10.00	-4.29	169530.487	2.0	172830.240	3.0
3029.7145	18.00	-3.52	121011.979	1.0	124311.720	1.0
3029.7439	10.00	-4.48	169530.491	1.0	172830.200	2.0
3029.9147	26.00	-4.28	48304.623	2.0	51604.146	3.0
3030.1966	26.00	-4.85	51825.758	3.0	55124.974	3.0
3030.5668	10.00	-3.40	169530.487	2.0	172829.300	1.0
3030.5705	10.00	-3.72	169530.491	1.0	172829.300	1.0
3030.6798	26.02	-2.30	219415.610	5.0	222714.300	6.0
3030.7349	9.02	-3.17	441276.720	2.5	444575.350	2.5
3030.7900	28.01	-1.91	134274.620	5.5	137573.190	4.5
3030.8608	20.00	-1.37	44961.757	2.0	48260.250	3.0
3031.0106	28.01	-2.20	118877.090	1.5	122175.420	2.5
3031.1346	7.00	-4.29	112319.805	1.5	115618.000	.5
3031.1346	7.00	-4.10	112319.805	1.5	115618.000	1.5
3031.1944	18.00	-3.53	120753.520	3.0	124051.650	2.0
3031.3873	18.00	-2.69	120753.520	3.0	124051.440	3.0
3031.4057	8.01	.01	257963.800	2.5	261261.700	1.5
3031.4076	22.00	-3.45	25493.722	2.0	28791.620	1.0
3031.5786	18.00	-3.20	121257.227	1.0	124554.939	1.0
3031.6816	15.00	-1.20	76875.400	1.5	80173.000	.5
3031.8535	10.00	-3.16	169530.487	2.0	172827.900	2.0
3031.8571	10.00	-4.11	169530.491	1.0	172827.900	2.0
3031.9758	18.01	-.46	201781.790	2.5	205079.070	2.5
3032.0282	20.00	-2.10	44961.757	2.0	48258.980	2.0
3032.3271	14.00	-.20	54245.020	0.0	57541.918	1.0
3032.5276	23.00	-4.42	38242.460	3.5	41539.140	4.5
3032.6288	14.02	.71	254557.030	2.0	257853.600	3.0
3032.6536	20.00	-3.27	44961.757	2.0	48258.300	1.0
3032.8403	14.02	-.34	254557.260	3.0	257853.600	3.0
3032.8403	14.02	.60	254557.260	3.0	257853.600	4.0
3032.8403	14.02	.45	254557.260	3.0	257853.600	4.0
3033.0594	22.00	-4.15	29818.310	3.0	33114.412	2.0
3033.1900	14.02	-2.14	254557.640	4.0	257853.600	3.0
3033.1900	14.02	-.58	254557.640	4.0	257853.600	4.0
3033.1900	14.02	-.72	254557.640	4.0	257853.600	4.0
3033.1900	14.02	.95	254557.640	4.0	257853.600	5.0
3033.2922	28.00	-.65	50458.187	1.0	53754.036	2.0
3033.7543	17.00	-3.24	91173.510	1.5	94468.857	.5
3033.7976	7.00	-4.36	112868.700	3.5	116164.000	2.5
3033.7976	7.00	-3.78	112868.700	3.5	116164.000	3.5
3033.9568	17.00	-1.30	98693.013	3.5	101988.140	2.5
3034.0922	6.00	-2.96	85203.640	2.0	88498.620	2.0
3034.1078	10.00	-2.79	169530.487	2.0	172825.450	1.0
3034.1115	10.00	-3.23	169530.491	1.0	172825.450	1.0
3034.1475	17.00	-2.60	98693.220	2.5	101988.140	2.5
3034.2239	26.00	-4.82	48475.740	3.0	51770.577	3.0
3034.3961	24.00	-4.58	54078.130	5.0	57372.780	4.0
3034.6135	26.00	-4.55	48460.120	0.0	51754.534	1.0
3034.8106	13.01	.10	146274.400	2.0	149568.600	3.0
3034.8475	21.00	-2.47	33278.640	3.5	36572.800	2.5
3034.9221	10.00	-3.11	169530.491	1.0	172824.570	0.0
3034.9304	26.02	-4.91	219471.970	4.0	222766.040	3.0
3034.9949	26.02	-3.39	219471.970	4.0	222765.970	4.0
3035.0686	28.01	-4.41	115000.250	3.5	118294.170	3.5
3035.1220	26.00	-4.07	48531.896	3.0	51825.758	3.0
3035.2252	28.01	-3.33	115085.360	3.5	118379.110	2.5
3035.3542	22.00	-3.44	43744.550	4.0	47038.160	3.0
3035.4741	28.01	-2.37	134281.660	5.5	137575.140	5.5
3035.5478	7.00	-4.30	112946.600	1.5	116240.000	1.5
3035.7137	25.00	-3.92	59339.550	3.5	62632.770	3.5
3035.7137	26.02	.59	207118.100	6.0	210411.320	5.0
3035.8059	18.00	-2.06	120753.520	3.0	124046.640	4.0
3035.8151	19.00	-4.49	30617.310	3.5	33910.420	3.5
3035.8151	19.00	-2.95	30617.310	4.5	33910.420	3.5
3035.8151	19.00	-3.06	30617.310	3.5	33910.420	2.5
3035.8427	6.00	-2.97	83820.130	1.0	87113.210	2.0
3035.9165	16.05	-.97	596877.000	2.5	600170.000	2.5
3035.9165	16.05	.33	596877.000	2.5	600170.000	3.5
3035.9165	16.05	.17	596877.000	1.5	600170.000	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3036.0493	10.00	-2.32	169534.364	4.0	172827.220	3.0
3036.1230	10.00	-3.86	169534.364	4.0	172827.140	4.0
3036.1322	10.00	-2.22	169534.374	5.0	172827.140	4.0
3036.1747	26.02	-.18	207118.600	5.0	210411.320	5.0
3036.1995	17.00	-.08	91680.990	1.5	94973.683	.5
3036.2263	8.00	-2.62	105441.736	2.0	108734.400	1.0
3036.2263	8.00	-3.36	105441.736	2.0	108734.400	2.0
3036.2263	8.00	-4.90	105441.736	2.0	108734.400	3.0
3036.2263	8.00	-2.45	105441.736	3.0	108734.400	2.0
3036.2263	8.00	-3.36	105441.736	3.0	108734.400	3.0
3036.2263	8.00	-2.29	105441.736	4.0	108734.400	3.0
3036.6358	26.02	-1.23	207119.100	4.0	210411.320	5.0
3036.7492	28.00	-2.13	47424.830	1.0	50716.927	1.0
3037.0343	10.00	-2.63	170317.742	2.0	173609.530	1.0
3037.0417	21.00	-4.53	31275.320	3.5	34567.100	3.5
3037.1801	14.03	.94	332759.920	1.5	336051.550	2.5
3037.1801	14.03	-.02	332759.920	1.5	336051.550	1.5
3037.2724	28.01	-.57	134281.660	5.5	137573.190	4.5
3037.3739	27.00	-4.09	49484.050	3.5	52775.470	4.5
3037.4929	10.00	-3.05	169538.949	3.0	172830.240	3.0
3037.4994	10.00	-4.35	169538.956	2.0	172830.240	3.0
3037.5299	10.00	-4.35	169538.949	3.0	172830.200	2.0
3037.5363	10.00	-3.20	169538.956	2.0	172830.200	2.0
3037.5455	22.00	-3.55	25537.276	1.0	28828.510	2.0
3037.5953	11.00	-3.67	37057.650	2.5	40348.830	2.5
3037.5953	11.00	-2.37	37057.650	3.5	40348.830	2.5
3037.5953	11.00	-2.53	37057.650	2.5	40348.830	1.5
3037.8520	10.00	-3.61	170317.638	3.0	173608.540	3.0
3037.8704	10.00	-4.91	170317.638	3.0	173608.520	2.0
3037.8945	10.00	-2.30	170317.684	4.0	173608.540	3.0
3037.9166	10.00	-2.44	170317.638	3.0	173608.470	2.0
3037.9295	10.00	-3.74	170317.722	3.0	173608.540	3.0
3037.9480	10.00	-4.91	170317.742	2.0	173608.540	3.0
3037.9480	10.00	-2.43	170317.722	3.0	173608.520	2.0
3037.9664	10.00	-3.76	170317.742	2.0	173608.520	2.0
3037.9885	10.00	-2.43	167026.988	1.0	170317.742	2.0
3038.0126	10.00	-3.59	170317.742	2.0	173608.470	2.0
3038.3671	10.00	-2.76	169538.956	2.0	172829.300	1.0
3038.4327	7.00	-.11	106996.032	1.5	110286.305	2.5
3038.6017	26.00	-3.32	50981.020	0.0	54271.110	1.0
3038.7079	14.00	-4.11	60962.105	2.0	64252.080	2.0
3038.8298	8.00	-3.04	105441.657	1.0	108731.500	1.0
3038.8298	8.00	-3.89	105441.657	1.0	108731.500	2.0
3038.8298	8.00	-2.74	105441.657	2.0	108731.500	1.0
3038.8298	8.00	-2.89	105441.657	2.0	108731.500	2.0
3038.8298	8.00	-3.89	105441.657	2.0	108731.500	3.0
3038.8298	8.00	-2.51	105441.657	3.0	108731.500	2.0
3038.8298	8.00	-2.87	105441.657	3.0	108731.500	3.0
3038.8298	8.00	-4.19	105441.657	3.0	108731.500	4.0
3038.8298	8.00	-2.32	105441.657	4.0	108731.500	3.0
3038.8298	8.00	-3.01	105441.657	4.0	108731.500	4.0
3038.8298	8.00	-2.15	105441.657	5.0	108731.500	4.0
3038.8298	8.00	-3.04	105441.657	1.0	108731.500	0.0
3038.9158	26.00	-4.81	51201.330	2.0	54491.080	3.0
3039.0469	26.00	-2.16	44676.963	4.0	47966.571	3.0
3039.2622	7.00	-1.35	106814.459	2.5	110103.834	1.5
3039.2761	28.01	-3.46	133001.470	.5	136290.830	.5
3039.3130	28.01	-2.52	101357.200	4.5	104646.520	3.5
3039.3223	28.01	-4.44	132912.150	2.5	136201.460	3.5
3039.5366	26.00	-4.41	47929.981	4.0	51219.059	3.0
3039.6540	10.00	-2.54	169538.949	3.0	172827.900	2.0
3039.6605	10.00	-3.69	169538.956	2.0	172827.900	2.0
3039.6827	18.01	.29	210584.880	1.5	213873.800	2.5
3039.7012	8.01	.29	258408.600	.5	261697.500	1.5
3039.7936	22.01	-4.01	67604.200	3.5	70893.000	3.5
3039.8305	28.01	-1.26	134286.380	4.5	137575.140	5.5
3039.9322	17.00	-1.98	91538.500	1.5	94827.150	2.5
3039.9572	22.00	-4.31	38699.767	2.0	41988.390	3.0
3040.2891	10.00	-4.58	169538.956	2.0	172827.220	3.0
3040.3566	10.00	-4.45	169538.949	3.0	172827.140	4.0
3040.4962	23.00	-8.65	14910.040	3.5	18198.080	2.5
3040.6368	22.00	-3.67	38764.832	3.0	42052.720	3.0
3040.6626	18.00	-3.95	120753.520	3.0	124041.380	2.0
3040.8754	21.00	-3.02	33798.680	2.5	37086.310	1.5
3040.9494	28.01	-4.18	98467.250	3.5	101754.800	2.5
3041.0363	7.00	-.99	107182.788	1.5	110470.244	2.5
3041.0604	25.00	-4.61	45013.550	2.5	48300.980	1.5
3041.0696	27.00	-3.15	48753.720	1.5	52041.140	.5
3041.1714	28.01	-3.31	130570.420	.5	133857.730	.5
3041.2629	10.00	-3.81	169543.029	3.0	172830.240	3.0
3041.2694	10.00	-2.37	169543.036	4.0	172830.240	3.0
3041.2999	10.00	-2.50	169543.029	3.0	172830.200	2.0
3041.6340	28.01	.47	134286.380	4.5	137573.190	4.5
3041.6340	28.01	-.38	134286.380	4.5	137573.190	3.5
3041.9265	10.00	-3.90	169538.956	2.0	172825.450	1.0
3042.0227	24.00	-4.53	45201.840	1.0	48488.230	0.0
3042.0709	26.00	-3.67	47693.289	3.0	50979.627	4.0
3042.2542	14.00	-3.69	60704.530	3.0	63990.670	2.0
3042.2727	7.00	-3.59	112877.880	4.5	116164.000	3.5
3042.2820	7.00	-4.35	112877.890	3.5	116164.000	2.5
3042.3385	17.00	-2.85	97703.941	2.5	100989.990	3.5
3042.3745	26.02	.42	207118.600	5.0	210404.610	4.0
3042.4578	9.00	-3.91	129937.330	1.5	133223.250	.5
3042.7061	7.00	-2.70	107037.069	2.5	110322.721	1.5
3042.7727	27.00	-4.37	51160.030	2.5	54445.610	2.5
3042.8375	26.02	-.01	207119.100	4.0	210404.610	4.0
3042.9431	14.00	-2.61	61597.404	3.0	64882.800	2.0
3043.3007	26.02	-.83	207119.600	3.0	210404.610	4.0
3043.4026	13.01	-4.72	144964.700	3.0	148249.600	4.0
3043.4026	13.01	-3.16	144964.700	4.0	148249.600	4.0
3043.4026	13.01	-3.30	144964.700	4.0	148249.600	4.0
3043.4026	13.01	-1.63	144964.700	5.0	148249.600	4.0
3043.6296	14.00	-4.31	61598.145	2.0	64882.800	2.0
3043.8658	13.01	-3.29	144964.700	3.0	148249.100	3.0
3043.8658	13.01	-2.19	144964.700	4.0	148249.100	3.0
3043.8658	13.01	-1.28	144964.700	4.0	148249.100	3.0
3043.9956	9.00	-1.98	130374.860	1.5	133659.120	.5
3043.9984	18.00	-2.70	121270.682	2.0	124554.939	1.0
3044.0142	17.00	-4.72	84988.480	1.5	88272.720	.5
3044.0596	10.00	-3.27	169543.029	3.0	172827.220	3.0
3044.0661	10.00	-4.71	169543.036	4.0	172827.220	3.0
3044.1328	14.00	-2.12	60706.558	1.0	63990.670	2.0
3044.1338	10.00	-4.71	169543.029	3.0	172827.140	4.0
3044.1403	10.00	-3.16	169543.036	4.0	172827.140	4.0
3044.2366	13.01	-1.87	144964.700	3.0	148248.700	2.0
3044.4489	14.00	-2.57	58311.659	0.0	61595.430	1.0
3044.5175	26.00	-4.29	47420.215	5.0	50703.912	5.0
3044.7187	26.02	-2.06	219415.610	5.0	222699.090	5.0
3044.8263	14.00	-2.81	57017.496	2.0	60300.860	2.0
3044.9506	25.00	-4.01	59470.140	3.5	62753.370	2.5
3044.9997	14.00	-.79	60487.103	1.0	63770.280	1.0
3045.0062	23.00	-3.82	38106.320	2.5	41389.490	1.5
3045.1732	6.00	-1.81	83820.130	1.0	87103.120	1.0
3045.1871	14.00	-1.97	54185.264	1.0	57468.239	2.0
3045.3689	18.00	-1.30	113716.610	3.0	116999.389	2.0
3045.4515	10.00	-3.95	169976.740	0.0	173259.430	1.0
3045.7577	24.00	-4.21	45225.200	2.0	48507.560	1.0
3045.7799	14.00	-2.85	47284.061	1.0	50566.397	1.0
3045.8133	7.00	-4.41	112957.700	1.5	116240.000	1.5
3045.8133	7.00	-4.57	112957.700	1.5	116240.000	2.5
3045.8133	7.00	-4.61	112957.700	2.5	116240.000	1.5
3045.8968	28.01	-3.58	130331.780	1.5	133613.990	1.5
3046.7110	14.00	-4.89	61562.477	3.0	64843.810	4.0
3046.7648	14.00	-2.22	60962.105	2.0	64243.380	2.0
3046.9180	7.00	-3.39	112877.890	3.5	116159.000	2.5
3046.9180	7.00	-4.22	112877.890	3.5	116159.000	3.5
3047.3081	25.00	-5.00	56189.450	4.5	59470.140	3.5
3047.5124	26.02	.21	207119.100	4.0	210399.570	3.0
3047.5960	28.01	-3.15	101366.140	2.5	104646.520	3.5
3047.7633	15.00	-4.48	77843.300	1.5	81123.500	2.5
3047.9491	15.00	-3.58	72741.600	1.5	76021.600	1.5
3047.9770	26.02	.02	207119.600	3.0	210399.570	3.0
3048.0811	14.00	-2.25	61563.952	4.0	64843.810	4.0
3048.2335	18.00	-1.98	120188.340	1.0	123468.034	1.0
3048.2930	27.00	-4.33	49484.050	3.5	52763.680	3.5
3048.3208	15.00	-3.30	77843.900	2.5	81123.500	2.5
3048.3766	27.00	-3.91	48753.720	1.5	52033.260	1.5
3048.4417	26.02	-.63	207120.100	2.0	210399.570	3.0
3048.5310	18.00	-1.77	120188.660	2.0	123468.034	1.0
3049.0553	22.00	-4.49	38544.380	3.0	41823.190	3.0
3049.1892	26.00	-4.62	47420.000	2.0	50698.666	2.0
3049.3251	9.02	-.38	454097.660	1.5	457376.180	.5
3049.3975	18.00	-2.71	121794.158	0.0	125072.600	1.0
3049.5669	26.02	-2.98	219471.970	4.0	222750.230	3.0
3049.6227	28.01	.50	134294.990	2.5	137573.190	3.5
3049.6506	29.01	-4.15	135863.930	1.0	139142.100	2.0
3049.9483	12.01	.54	105622.340	.5	108900.190	1.5
3050.0135	15.00	-1.15	67113.820	2.5	70391.600	2.5
3050.1344	18.00	-4.07	122514.290	1.0	125791.940	2.0
3050.2926	28.01	-1.89	118897.940	2.5	122175.420	2.5
3050.3578	10.01	-1.08	318157.150	3.5	321434.560	2.5
3050.7497	7.00	-1.16	106758.731	.5	110035.720	.5
3051.1816	14.00	-2.85	61647.875	2.0	64924.400	3.0
3051.2981	26.02	-.05	207119.600	3.0	210396.000	2.0
3051.7377	26.00	-2.53	44760.739	1.0	48036.667	2.0
3051.7638	26.02	-.05	207120.100	2.0	210396.000	2.0
3051.9259	18.00	-1.60	120229.810	3.0	123505.536	2.0
3052.0247	26.02	-2.77	201919.530	4.0	205195.150	5.0
3052.1682	18.00	-2.48	120230.070	2.0	123505.536	2.0
3052.1831	28.01	-4.87	118809.340	1.5	122084.790	1.5
3052.2670	9.02	-.73	441276.720	2.5	444552.080	3.5
3052.3881	6.00	-2.64	80562.850	1.0	83838.080	2.0
3052.4813	6.00	-1.78	83838.080	2.0	87113.210	2.0
3052.6118	26.01	-2.70	84326.910	1.5	87601.900	1.5
3052.6212	10.01	-1.18	318156.060	4.5	321431.040	5.5
3052.9101	7.00	-3.58	112965.330	3.5	116240.000	2.5
3053.0686	7.00	-4.60	112880.500	2.5	116155.000	1.5
3053.0788	22.00	-3.68	32857.721	3.0	36132.210	4.0
3053.1338	18.01	-1.74	201781.790	2.5	205056.220	1.5
3053.2364	22.00	-4.67	38544.380	3.0	41818.700	4.0
3053.2458	18.01	-1.74	189437.690	.5	192712.000	1.5
3053.2551	21.00	-3.75	33056.190	3.5	36330.490	2.5
3053.6076	14.00	-1.25	60496.358	2.0	63770.280	1.0
3053.8809	17.00	-3.69	91906.790	2.5	95180.419	3.5
3053.9154	20.00	-4.71	44762.620	2.0	48036.212	3.0
3053.9359	26.02	-.45	207120.100	2.0	210393.670	1.0
3053.9360	10.01	-1.48	318160.990	3.5	321434.560	2.5
3054.0451	26.00	-2.49	33412.706	3.0	36686.159	4.0
3054.1197	20.00	-3.16	44762.839	3.0	48036.212	3.0
3054.2158	10.01	-.04	318161.290	2.5	321434.560	2.5
3054.3801	20.00	-2.10	44763.118	4.0	48036.212	3.0
3054.4492	18.00	-0.00	119444.880	2.0	122717.900	3.0
3054.5144	10.01	-4.71	302989.820	1.5	306262.770	1.5
3054.6264	7.00	-4.45	112967.170	3.5	116240.000	2.5
3054.6265	29.01	-2.33	141542.100	2.0	144814.930	3.0
3054.6358	26.02	-2.54	219471.970	4.0	222744.790	5.0
3054.6918	27.00	-2.46	45924.980	3.5	49197.740	4.5
3054.8691	25.00	-4.69	59480.800	2.5	62753.370	2.5
3055.0008	17.00	-1.35	96930.181	.5	100202.610	1.5
3055.2435	17.00	-1.82	96930.181	.5	100202.350	.5
3055.3546	25.00	-1.73	59360.720	2.5	62632.770	3.5
3055.4013	10.01	-1.87	318156.060	4.5	321428.060	3.5
3055.6815	9.02	-1.00	440359.260	3.5	443630.960	3.5
3055.8450	14.00	-1.03	59273.575	1.0	62545.100	1.0
3056.0551	15.00	-1.54	76425.200	2.5	79696.500	1.5
3056.2139	23.01	-4.84	70227.800	5.0	73498.930	6.0
3056.4101	10.01	-1.41	318157.150	3.5	321428.070	2.5
3056.4195	10.01	-.45	318157.150	3.5	321428.060	3.5
3056.4475	28.01	-4.34	118874.110	3.5	122144.990	2.5
3056.4943	6.00	-.89	83947.430	3.0	87218.260	2.0
3056.6998	20.00	-3.20	44762.620	2.0	48033.230	2.0
3056.8307	12.01	-.16	105629.720	1.5	108900.190	1.5
3056.8541	14.00	-2.04	60815.925	2.0	64086.370	1.0
3056.8774	26.01	-3.07	84266.480	2.5	87536.900	3.5
3056.9046	20.00	-2.30	44762.839	3.0	48033.230	2.0
3056.9803	12.01	.79	105629.720	1.5	108900.030	2.5
3057.0456	10.01	.22	318805.100	2.5	322075.340	3.5
3057.1457	10.00	-3.15	167047.609	2.0	170317.742	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3057.1644	10.00	-2.37	167047.609	2.0	170317.722	3.0
3057.2430	10.00	-4.38	167047.609	2.0	170317.638	3.0
3057.4085	14.00	-.82	54528.220	2.0	57798.072	2.0
3057.7161	18.00	-3.22	121257.227	1.0	124526.750	0.0
3057.7283	18.00	-3.01	122514.290	1.0	125783.800	1.0
3058.1371	10.00	-4.29	167048.669	3.0	170317.742	2.0
3058.1557	10.00	-3.70	167048.669	3.0	170317.722	3.0
3058.1912	10.00	-2.25	167048.669	3.0	170317.684	4.0
3058.2343	10.00	-2.99	167048.669	3.0	170317.638	3.0
3058.2427	20.00	-2.49	44762.620	2.0	48031.580	1.0
3058.2988	15.00	-3.53	78133.500	2.5	81402.400	2.5
3058.4785	26.00	-3.30	47834.529	5.0	51103.237	5.0
3058.6076	27.00	-4.44	52014.450	1.5	55283.020	2.5
3058.6825	6.00	-1.20	80834.610	3.0	84103.100	2.0
3058.9258	29.01	-3.22	135759.970	2.0	139028.200	2.0
3059.4219	8.01	.54	258601.700	1.5	261869.400	2.5
3059.8340	25.00	-3.65	54218.710	1.5	57485.970	2.5
3059.9089	10.01	-1.08	318156.060	4.5	321423.240	3.5
3059.9183	10.01	-.98	318156.060	4.5	321423.230	4.5
3060.0025	10.01	-2.33	318160.990	3.5	321428.070	2.5
3060.0119	10.01	-.31	318160.990	3.5	321428.060	3.5
3060.2077	14.00	-2.65	59109.959	3.0	62376.820	3.0
3060.2461	10.01	.90	318156.060	4.5	321422.880	5.5
3060.2742	10.01	.12	318156.060	4.5	321422.850	4.5
3060.2836	10.01	-1.33	318161.290	2.5	321428.070	2.5
3060.2930	10.01	.29	318161.290	2.5	321428.060	3.5
3060.6115	18.01	-1.30	186171.260	.5	189437.690	.5
3060.8926	27.00	-3.35	48828.870	2.5	52095.000	3.5
3060.9207	17.01	-2.88	158723.700	1.0	161989.800	1.0
3060.9301	10.01	.08	318157.150	3.5	321423.240	3.5
3060.9395	10.01	.04	318157.150	3.5	321423.230	4.5
3060.9676	9.02	-2.61	440359.260	3.5	443625.310	2.5
3061.0707	28.01	-2.93	130942.360	1.5	134208.300	2.5
3061.0820	14.00	-3.26	59110.892	2.0	62376.820	3.0
3061.2956	10.01	.69	318157.150	3.5	321422.850	4.5
3061.4456	25.00	-4.92	59817.700	2.5	63083.240	1.5
3061.6706	8.01	-.04	257693.700	.5	260959.000	1.5
3061.9051	26.02	-2.83	202429.040	1.0	205694.090	1.0
3061.9144	6.00	-1.33	83838.080	2.0	87103.120	1.0
3061.9988	29.01	-4.88	114482.500	2.0	117747.450	3.0
3062.2305	7.00	-1.21	106980.480	.5	110245.183	.5
3062.5335	6.00	-1.04	83848.830	3.0	87113.210	2.0
3062.6179	21.00	-4.41	31215.760	2.5	34480.050	2.5
3062.6611	7.00	-1.37	107182.788	1.5	110447.032	1.5
3063.0008	14.00	-2.14	60496.358	2.0	63760.240	3.0
3063.3499	28.01	-2.78	100389.520	2.5	103653.030	3.5
3063.5039	20.00	-.21	42919.053	2.0	46182.399	3.0
3063.5471	18.00	-.70	119444.880	2.0	122708.180	2.0
3063.5593	14.00	-1.31	60487.103	1.0	63750.390	1.0
3063.5846	10.01	-.17	318812.120	4.5	322075.380	4.5
3063.6222	10.01	-2.93	318812.120	4.5	322075.340	3.5
3063.6888	14.00	-.54	54205.090	2.0	57468.239	2.0
3063.7724	18.00	-1.87	119444.880	2.0	122707.940	3.0
3063.7799	22.00	-3.21	38451.298	2.0	41714.350	2.0
3063.8193	18.00	-3.42	122514.290	1.0	125777.300	1.0
3063.8475	28.01	-.96	131032.010	2.5	134294.990	2.5
3063.8569	14.00	-3.15	60621.640	0.0	63884.610	1.0
3063.9179	7.00	-.96	107037.069	2.5	110299.974	2.5
3064.1856	10.01	.64	318804.260	1.5	322066.880	2.5
3064.1950	10.01	.25	318812.770	3.5	322075.380	4.5
3064.2137	14.02	-.54	254674.400	5.0	257936.990	5.0
3064.2137	14.02	-.65	254674.400	5.0	257936.990	5.0
3064.2137	14.02	-2.45	254674.400	6.0	257936.990	5.0
3064.2137	14.02	1.26	254674.400	5.0	257936.990	6.0
3064.2137	14.02	-2.20	254674.400	5.0	257936.990	6.0
3064.2137	14.02	-3.41	254674.400	5.0	257936.990	6.0
3064.2137	14.02	1.26	254674.400	5.0	257936.990	6.0
3064.2137	14.02	-.55	254674.400	6.0	257936.990	6.0
3064.2137	14.02	-.64	254674.400	6.0	257936.990	6.0
3064.2137	14.02	1.32	254674.400	6.0	257936.990	7.0
3064.2137	14.02	1.18	254674.400	4.0	257936.990	5.0
3064.2325	10.01	-1.33	318812.770	3.5	322075.340	3.5
3064.4298	26.02	-2.34	219471.970	4.0	222734.330	4.0
3064.5331	10.01	-.37	318160.990	3.5	321423.240	3.5
3064.5425	10.01	.75	318160.990	3.5	321423.230	4.5
3064.5876	14.00	-2.44	59056.508	1.0	62318.700	0.0
3064.6994	14.00	-3.00	56780.427	1.0	60042.500	0.0
3064.8149	10.01	.44	318161.290	2.5	321423.240	3.5
3064.8995	10.01	-.01	318160.990	3.5	321422.850	4.5
3064.9747	10.01	-.43	318805.100	2.5	322066.880	2.5
3065.0029'	10.01	.66	318805.100	2.5	322066.850	3.5
3065.0499	17.01	-3.83	144344.000	2.0	147605.700	3.0
3066.0801	17.00	.38	92140.127	1.5	95400.731	2.5
3066.1008	7.00	-.06	103735.450	2.5	106996.032	1.5
3066.3566	9.00	-1.07	129484.660	1.5	132744.970	1.5
3066.3848	26.00	-4.79	50614.020	4.0	53874.300	5.0
3067.5713	14.00	-.56	51612.012	0.0	54871.031	1.0
3067.8311	22.00	-4.02	38699.767	2.0	41958.510	2.0
3068.2416	13.00	-2.03	43335.013	.5	46593.320	1.5
3068.9264	28.01	-2.33	103025.580	2.5	106283.160	2.5
3069.0583	18.01	-2.62	196621.880	3.5	199879.320	3.5
3069.1120	7.00	-1.16	106778.337	1.5	110035.720	.5
3069.2090	25.00	-4.30	41031.480	4.5	44288.760	4.5
3069.2090	6.00	-1.53	80562.850	1.0	83820.130	1.0
3069.2561	6.00	-1.63	83820.130	1.0	87077.360	0.0
3069.2665	17.00	-4.17	99269.121	2.5	102526.340	2.5
3069.3419	17.00	-2.93	99269.121	2.5	102526.260	3.5
3069.4031	17.00	-1.82	96945.536	2.5	100202.610	1.5
3069.5482	18.01	-1.09	201720.670	1.5	204977.590	2.5
3069.9818	10.01	1.01	318812.120	4.5	322068.580	5.5
3070.2176	28.01	-4.68	118442.810	1.5	121699.020	1.5
3070.3467	13.00	-1.78	43337.877	1.5	46593.950	2.5
3070.5570	28.01	-3.07	101247.370	2.5	104503.220	2.5
3070.6513	10.01	-4.23	318812.770	3.5	322068.520	4.5
3070.9410	13.00	-2.73	43337.877	1.5	46593.320	1.5
3070.9946	18.00	-2.82	120250.150	3.0	123505.536	2.0
3071.0683	22.00	-3.58	18825.890	1.0	22081.198	2.0
3071.1636	10.00	-1.28	163401.301	0.0	166656.508	1.0
3071.3221	17.00	-2.13	96930.181	.5	100185.220	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3071.4815	6.00	-3.60	83747.390	2.0	87002.260	3.0
3071.6137	10.01	-1.72	318812.120	4.5	322066.850	3.5
3071.6514	13.02	-.63	213995.480	3.5	217250.170	3.5
3071.6514	13.02	.91	213995.480	3.5	217250.170	4.5
3071.6514	13.02	.80	213995.480	2.5	217250.170	3.5
3071.6514	10.01	-1.02	318179.870	1.5	321434.560	2.5
3071.6854	28.00	-4.50	46522.965	2.0	49777.619	3.0
3071.9251	29.01	-2.42	134359.900	1.0	137614.300	0.0
3071.9780	22.00	-4.43	25537.276	1.0	28791.620	1.0
3072.0668	10.01	-.40	318180.310	2.5	321434.560	2.5
3072.1989	10.01	-1.96	318812.770	3.5	322066.880	2.5
3072.2272	10.01	-.32	318812.770	3.5	322066.850	3.5
3072.2725	14.00	-2.17	60496.358	2.0	63750.390	1.0
3072.3500	14.00	-4.85	57450.580	3.0	60704.530	3.0
3072.6805	27.00	-3.42	41528.530	5.5	44782.130	4.5
3072.8127	18.01	-4.89	200880.520	3.5	204133.980	2.5
3072.8221	25.00	-3.25	57485.970	2.5	60739.420	3.5
3073.2302	26.00	-3.16	44676.963	4.0	47929.981	4.0
3073.8170	26.00	-3.77	48928.423	2.0	52180.820	1.0
3073.9843	28.01	-2.01	118923.200	3.5	122175.420	2.5
3074.2112	17.00	-2.49	98693.220	2.5	101945.200	1.5
3074.4475	6.01	-.57	184449.270	4.5	187701.000	4.5
3074.4475	6.01	1.16	184449.270	4.5	187701.000	5.5
3074.4475	6.01	1.07	184449.270	3.5	187701.000	4.5
3074.6064	20.00	-1.10	45425.358	1.0	48676.920	2.0
3074.9392	26.00	-3.52	47452.702	4.0	50703.912	5.0
3075.1038	10.00	-3.99	167069.064	3.0	170320.100	3.0
3075.1038	10.00	-2.56	167069.064	3.0	170320.100	4.0
3075.1161	10.00	-2.69	167069.077	2.0	170320.100	3.0
3075.2041	14.00	-.83	61423.230	3.0	64674.160	4.0
3075.8664	21.00	-4.51	31172.620	1.5	34422.850	1.5
3075.9042	28.01	-4.16	116893.980	2.5	120144.170	2.5
3076.0083	26.00	-3.24	45281.816	2.0	48531.896	3.0
3076.2450	23.00	-3.68	38242.460	3.5	41492.290	3.5
3076.3017	25.00	-4.76	56567.930	1.5	59817.700	2.5
3076.4248	6.00	-2.28	80782.510	1.0	84032.150	1.0
3076.8074	7.00	-3.97	107037.069	2.5	110286.305	2.5
3076.8878	7.00	-.69	106996.032	1.5	110245.183	.5
3077.0403	9.00	-.44	130374.860	1.5	133623.850	1.5
3077.7887	10.01	.52	318179.870	1.5	321428.070	2.5
3078.2056	10.01	-.14	318180.310	2.5	321428.070	2.5
3078.2151	10.01	.49	318180.310	2.5	321428.060	3.5
3078.2435	28.01	-3.22	118892.990	5.5	122140.710	4.5
3078.2625	29.01	-3.96	135733.600	3.0	138981.300	2.0
3078.4047	29.01	-2.92	133826.200	2.0	137073.750	2.0
3078.4142	28.01	-3.56	92325.850	3.5	95573.390	3.5
3078.5469	29.01	-1.02	145955.700	1.0	149203.100	0.0
3078.6322	14.02	-.51	254694.990	6.0	257942.300	6.0
3078.6322	14.02	-.60	254694.990	6.0	257942.300	6.0
3078.6322	14.02	1.43	254694.990	6.0	257942.300	7.0
3078.6322	14.02	-3.63	254694.990	6.0	257942.300	7.0
3078.6322	14.02	-2.32	254694.990	6.0	257942.300	7.0
3078.6322	14.02	1.44	254694.990	6.0	257942.300	7.0
3078.6322	14.02	-2.54	254694.990	7.0	257942.300	6.0
3078.6322	14.02	-.52	254694.990	7.0	257942.300	7.0
3078.6322	14.02	-.59	254694.990	7.0	257942.300	7.0
3078.6322	14.02	1.49	254694.990	7.0	257942.300	8.0
3078.6322	14.02	1.37	254694.990	5.0	257942.300	6.0
3078.6692	26.00	-4.43	48122.913	3.0	51370.184	2.0
3078.8891	7.00	-3.80	111853.061	1.5	115100.100	2.5
3078.9261	25.00	-3.16	53109.210	2.5	56356.210	3.5
3079.1157	14.02	-.54	254584.600	4.0	257831.400	3.0
3079.1157	14.02	-1.72	254584.600	4.0	257831.400	4.0
3079.1252	6.00	-3.03	85399.810	2.0	88646.600	1.0
3079.2865	14.02	.61	254766.750	2.0	258013.370	3.0
3079.3055	14.02	-1.47	254584.800	3.0	257831.400	3.0
3079.3055	14.02	-3.27	254584.800	3.0	257831.400	4.0
3079.3055	14.02	-.64	254584.800	4.0	257831.400	3.0
3079.3055	14.02	-1.82	254584.800	4.0	257831.400	4.0
3079.3055	14.02	-.41	254584.800	3.0	257831.400	2.0
3079.3956	12.00	-1.43	57017.078	0.0	60263.583	1.0
3079.4894	14.00	-3.63	61597.404	3.0	64843.810	4.0
3079.5521	22.00	-3.06	38670.710	4.0	41917.050	4.0
3079.5900	18.01	-4.02	196633.020	2.5	199879.320	3.5
3079.7941	14.00	-.79	59273.575	1.0	62519.660	2.0
3080.0085	12.00	-1.56	57017.724	1.0	60263.583	1.0
3080.0085	12.00	-1.25	57017.724	1.0	60263.583	2.0
3080.1479	28.00	-1.46	50458.187	1.0	53703.899	1.0
3080.2067	14.02	-.17	254585.750	5.0	257831.400	4.0
3080.2627	20.00	-4.95	42919.053	2.0	46164.644	2.0
3080.3871	26.01	-3.94	46967.470	2.5	50212.930	2.5
3080.3966	12.01	-.61	109062.340	3.5	112307.790	3.5
3080.3966	12.01	.93	109062.340	3.5	112307.790	4.5
3080.3966	12.01	.82	109062.340	2.5	112307.790	3.5
3080.4042	18.00	-2.20	121794.158	0.0	125039.600	1.0
3080.6244	28.01	-2.69	101258.010	1.5	104503.220	2.5
3080.6472	17.00	-4.24	91069.020	.5	94314.206	1.5
3080.6719	25.00	.17	47659.520	2.5	50904.680	2.5
3080.8902	27.00	-3.03	43130.240	.5	46375.170	1.5
3080.8998	10.01	1.01	318186.140	5.5	321431.060	6.5
3080.9111	14.00	-1.57	59131.912	4.0	62376.820	3.0
3080.9187	10.01	-1.11	318186.140	5.5	321431.040	5.5
3080.9282	26.01	-3.49	84326.910	1.5	87571.800	2.5
3080.9472	10.01	.94	318186.170	4.5	321431.040	5.5
3081.1495	14.00	-4.51	61306.713	4.0	64551.370	4.0
3081.2435	12.00	-2.73	57019.025	2.0	60263.583	1.0
3081.2435	12.00	-1.73	57019.025	2.0	60263.583	2.0
3081.2435	12.00	-.81	57019.025	2.0	60263.583	3.0
3081.5550	28.01	.62	130470.900	4.5	133715.130	4.5
3081.6405	25.00	-4.17	56356.210	3.5	59600.350	2.5
3081.6784	8.01	.36	257797.900	1.5	261042.000	2.5
3082.0109	11.00	-1.55	37296.320	.5	40540.070	1.5
3082.0300	22.00	-4.86	41337.430	2.0	44581.160	2.0
3082.0680	26.00	-3.21	44511.795	2.0	47755.485	3.0
3082.1630	27.00	-4.13	48317.170	3.5	51560.760	2.5
3082.3626	28.01	-4.46	131093.300	4.5	134336.680	5.5
3082.3825	10.00	-5.00	167052.645	1.0	170296.004	1.0
3082.4044	26.00	-4.18	45061.287	3.0	48304.623	2.0
3082.6116	10.00	-3.84	167076.982	3.0	170320.100	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3082.6116	10.00	-2.95	167076.982	3.0	170320.100	4.0
3082.6202	10.00	-4.52	167076.991	4.0	170320.100	4.0
3082.6202	10.00	-3.72	167076.991	4.0	170320.100	4.0
3082.6202	10.00	-2.85	167076.991	4.0	170320.100	5.0
3082.6839	20.00	-2.76	40690.435	0.0	43933.477	1.0
3082.7903	10.01	.16	318180.310	2.5	321423.240	3.5
3082.9139	28.01	-4.36	130730.530	2.5	133973.330	2.5
3083.0375	27.00	-4.96	43847.980	3.5	47090.650	2.5
3083.2371	11.00	-1.30	37297.610	1.5	40540.070	2.5
3083.2371	11.00	-2.25	37297.610	1.5	40540.070	1.5
3083.3227	17.00	-1.99	97703.640	1.5	100946.010	.5
3083.4597	26.00	-4.73	48361.920	4.0	51604.146	3.0
3083.5129	27.00	-4.90	50375.910	5.5	53618.080	6.5
3083.5224	14.02	-.47	254702.290	7.0	257944.450	7.0
3083.5224	14.02	-.54	254702.290	7.0	257944.450	7.0
3083.5224	14.02	-2.61	254702.290	8.0	257944.450	7.0
3083.5224	14.02	1.60	254702.290	7.0	257944.450	8.0
3083.5224	14.02	-2.42	254702.290	7.0	257944.450	8.0
3083.5224	14.02	-3.82	254702.290	7.0	257944.450	8.0
3083.5224	14.02	1.60	254702.290	7.0	257944.450	8.0
3083.5224	14.02	-.47	254702.290	8.0	257944.450	8.0
3083.5224	14.02	-.54	254702.290	8.0	257944.450	8.0
3083.5224	14.02	1.65	254702.290	8.0	257944.450	9.0
3083.5224	14.02	1.54	254702.290	6.0	257944.450	7.0
3083.5985	10.01	-1.21	318191.940	2.5	321434.020	1.5
3083.5985	10.01	-3.47	318828.550	2.5	322070.630	2.5
3083.5985	10.01	-1.43	318828.550	3.5	322070.630	2.5
3083.7412	13.02	-.62	214010.220	4.5	217252.150	4.5
3083.7412	13.02	1.12	214010.220	4.5	217252.150	5.5
3083.7412	13.02	1.03	214010.220	3.5	217252.150	4.5
3083.7793	10.01	-2.05	318186.170	4.5	321428.060	3.5
3083.8364	10.01	-3.67	318828.550	2.5	322070.380	3.5
3083.8364	10.01	-2.46	318828.550	3.5	322070.380	3.5
3083.9124	23.00	-4.75	36983.630	1.5	40225.380	1.5
3084.1313	18.00	-3.43	119444.880	2.0	122686.400	2.0
3084.3215	18.00	-1.96	119444.880	2.0	122686.200	1.0
3084.5024	27.00	-3.45	48828.870	2.5	52070.000	2.5
3084.5404	21.00	-4.08	33798.680	2.5	37039.770	2.5
3084.6260	6.00	-2.11	83761.260	3.0	87002.260	3.0
3084.7879	10.00	-3.61	169748.150	1.0	172988.980	1.0
3085.0068	10.01	.78	318834.780	3.5	322075.380	4.5
3085.0449	10.01	-.63	318834.780	3.5	322075.340	3.5
3085.0449	14.00	-1.44	60704.530	3.0	63945.090	3.0
3085.2735	10.01	-4.65	318183.690	4.5	321424.010	4.5
3085.3114	10.01	-3.67	318183.730	5.5	321424.010	4.5
3085.3114	10.01	-3.42	318183.690	4.5	321423.970	5.5
3085.3495	10.01	-1.75	318183.730	5.5	321423.970	5.5
3085.3876	10.01	.68	318835.140	2.5	322075.340	3.5
3085.4162	6.00	.27	78529.620	3.0	81769.790	2.0
3085.6058	14.00	-1.86	59109.959	3.0	62349.930	2.0
3085.6828	17.00	-.83	96945.536	2.5	100185.426	2.5
3085.7972	24.00	-4.28	48824.500	4.0	52064.270	4.0
3085.8162	10.01	-3.57	318184.260	3.5	321424.010	4.5
3085.8257	10.01	-1.84	318184.270	4.5	321424.010	4.5
3085.8639	10.01	-3.56	318184.270	4.5	321423.970	5.5
3085.8791	17.00	-4.01	96945.536	2.5	100185.220	1.5
3085.9334	7.00	-.21	106980.480	.5	110220.107	1.5
3085.9534	20.00	-.09	37298.287	2.0	40537.893	3.0
3086.1496	8.03	-1.93	593273.000	2.5	596512.400	1.5
3086.3497	23.00	-4.77	37075.640	4.5	40314.830	3.5
3086.4097	28.00	-1.18	49032.589	2.0	52271.716	2.0
3086.4641	27.00	-3.15	49025.420	1.5	52264.490	1.5
3086.4793	10.00	-2.90	169748.150	1.0	172987.204	2.0
3086.4945	14.00	-2.77	59110.892	2.0	62349.930	2.0
3086.7738	22.00	-3.47	25643.695	3.0	28882.440	3.0
3086.7880	18.01	-4.75	211593.440	4.5	214832.170	3.5
3086.8119	22.00	-4.87	43799.455	2.0	47038.160	3.0
3086.9596	9.00	-.62	130374.860	1.5	133613.410	.5
3086.9978	23.02	-2.19	159146.600	2.5	162385.110	3.5
3087.1179	26.00	-3.53	48516.150	1.0	51754.534	1.0
3087.2742	27.00	-4.30	50105.050	1.5	53343.270	1.5
3087.5183	18.00	-2.19	120230.070	2.0	123468.034	1.0
3087.6432	17.00	-3.47	91906.790	2.5	95144.623	2.5
3087.6556	18.01	-4.90	199959.620	2.5	203197.440	3.5
3087.9608	15.01	-1.39	127756.300	2.0	130993.800	3.0
3087.9751	20.00	-2.20	33317.264	0.0	36554.749	1.0
3088.2089	13.02	-2.15	214012.930	4.5	217250.170	4.5
3088.2089	13.02	-.42	214012.930	5.5	217250.170	4.5
3088.2089	13.02	-.51	214012.930	4.5	217250.170	3.5
3088.2232	14.00	-1.87	57468.239	2.0	60705.464	3.0
3088.3519	10.01	-4.00	318186.140	5.5	321423.230	4.5
3088.3710	10.01	-1.72	318186.170	4.5	321423.240	3.5
3088.3805	21.00	-5.00	34480.050	2.5	37717.110	3.5
3088.3805	10.01	-.29	318186.170	4.5	321423.230	4.5
3088.4283	12.01	-.57	109072.050	4.5	112309.060	4.5
3088.4283	12.01	1.17	109072.050	4.5	112309.060	5.5
3088.4283	12.01	1.08	109072.050	3.5	112309.060	4.5
3088.4473	6.00	-4.04	85399.810	2.0	88636.800	2.0
3088.6859	10.01	-.04	318186.140	5.5	321422.880	5.5
3088.7145	10.01	-1.32	318186.140	5.5	321422.850	4.5
3088.7145	10.01	-1.56	318186.170	4.5	321422.880	5.5
3088.7431	10.01	-.67	318186.170	4.5	321422.850	4.5
3088.7603	10.00	-4.73	167052.657	2.0	170289.319	2.0
3088.9817	10.01	-1.35	318184.260	3.5	321420.690	2.5
3089.2204	23.00	-3.86	36989.200	2.5	40225.380	1.5
3089.3988	7.00	-4.33	112294.007	.5	115530.000	.5
3089.4304	12.01	-1.61	114403.550	3.5	117639.510	3.5
3089.4304	12.01	-.07	114403.550	3.5	117639.510	4.5
3089.4304	12.01	-.18	114403.550	2.5	117639.510	3.5
3089.4877	6.00	-2.72	83877.310	1.0	87113.210	2.0
3089.5354	28.01	-4.92	118877.090	1.5	122112.940	.5
3089.7894	22.00	-3.60	25537.276	1.0	28772.860	0.0
3089.9269	14.00	-4.35	61647.360	1.0	64882.800	2.0
3090.4045	9.01	-3.72	266338.700	0.0	269573.640	1.0
3090.4189	14.00	-3.40	61647.875	2.0	64882.800	2.0
3090.6338	14.02	-3.07	254702.290	6.0	257936.990	6.0
3090.6338	14.02	-3.16	254702.290	6.0	257936.990	6.0
3090.6338	14.02	-1.13	254702.290	7.0	257936.990	6.0
3090.6338	14.02	-4.89	254702.290	7.0	257936.990	6.0
3090.6338	14.02	-1.13	254702.290	7.0	257936.990	6.0
3090.6338	14.02	-3.08	254702.290	7.0	257936.990	7.0
3090.6338	14.02	-3.15	254702.290	7.0	257936.990	7.0
3090.6338	14.02	-1.07	254702.290	8.0	257936.990	7.0
3090.6338	14.02	-1.20	254702.290	6.0	257936.990	5.0
3090.7485	28.01	.65	130480.550	3.5	133715.130	4.5
3090.8946	14.00	-1.39	60487.103	1.0	63721.530	2.0
3091.2989	18.00	-4.18	113426.050	2.0	116660.054	1.0
3091.5036	12.01	-1.12	109074.000	5.5	112307.790	4.5
3091.5513	10.01	-4.66	318834.780	3.5	322068.520	4.5
3091.5627	12.00	-2.02	57214.992	1.0	60448.720	0.0
3091.5704	12.01	-2.85	109074.070	4.5	112307.790	4.5
3091.5704	12.01	-1.21	109074.070	4.5	112307.790	3.5
3091.9816	23.02	-3.96	161165.810	2.5	164399.100	3.5
3092.1470	10.00	-4.62	166606.333	0.0	169839.450	1.0
3092.4789	22.00	-4.20	38670.710	4.0	41903.480	5.0
3092.7372	30.02	-3.01	296875.600	2.0	300108.100	3.0
3092.8521	17.00	-3.47	97666.650	4.5	100899.030	3.5
3092.8521	17.00	-2.57	97666.650	4.5	100899.030	4.5
3092.8808	10.01	.46	318202.210	1.5	321434.560	2.5
3093.1009	25.00	-2.95	53124.090	3.5	56356.210	3.5
3093.1200	10.01	-1.82	318834.780	3.5	322066.880	2.5
3093.1487	10.01	-.39	318834.780	3.5	322066.850	3.5
3093.1669	26.00	-3.43	50880.152	1.0	54112.203	2.0
3093.4071	15.00	-3.61	78069.000	1.5	81300.800	1.5
3093.4645	10.01	-.48	318835.140	2.5	322066.880	2.5
3093.4933	10.01	.14	318835.140	2.5	322066.850	3.5
3093.5507	10.01	-1.99	318202.370	1.5	321434.020	1.5
3093.5660	17.00	-4.05	97667.396	3.5	100899.030	3.5
3093.5660	17.00	-3.37	97667.396	3.5	100899.030	4.5
3093.5699	10.01	-3.10	318202.390	2.5	321434.020	1.5
3093.9816	13.01	-.76	142958.900	1.0	146190.100	0.0
3094.0677	29.01	-3.44	135910.990	2.0	139142.100	2.0
3094.2343	12.00	-3.57	57204.163	3.0	60435.099	2.0
3094.2880	6.00	-1.90	80801.270	2.0	84032.150	1.0
3094.3263	28.00	-3.93	51343.800	2.0	54574.640	1.0
3094.3416	12.00	-2.05	57204.275	3.0	60435.099	2.0
3094.3416	12.00	-3.54	57204.275	2.0	60435.099	2.0
3094.3934	12.01	-3.39	114408.740	4.5	117639.510	4.5
3094.3934	12.01	-1.66	114408.740	5.5	117639.510	4.5
3094.3934	12.01	-1.75	114408.740	4.5	117639.510	3.5
3094.9164	26.00	-3.83	48531.896	3.0	51762.120	2.0
3095.0055	55.00	.02	18535.519	0.0	21766.531	0.0
3095.0735	28.01	-2.30	131032.010	2.5	134262.070	3.5
3095.1013	14.00	-2.55	56780.427	1.0	60010.458	1.0
3095.3418	14.02	-2.65	201598.280	2.0	204828.060	3.0
3095.3802	14.00	-2.59	60856.630	1.0	64086.370	1.0
3095.6677	14.00	-.96	61614.370	5.0	64843.810	4.0
3095.6869	12.01	-2.23	109072.050	3.5	112301.470	3.5
3095.6869	12.01	-.69	109072.050	4.5	112301.470	3.5
3095.6869	12.01	-.80	109072.050	3.5	112301.470	2.5
3095.7904	26.00	-4.68	48475.740	3.0	51705.052	2.0
3095.8115	14.00	-1.62	59221.110	0.0	62450.400	1.0
3096.0032	13.02	-1.79	214010.220	3.5	217239.310	3.5
3096.0032	13.02	-.24	214010.220	4.5	217239.310	3.5
3096.0032	13.02	-.36	214010.220	3.5	217239.310	2.5
3096.3006	10.01	-1.76	318841.850	3.5	322070.630	2.5
3096.3292	10.01	-1.74	318191.940	2.5	321420.690	2.5
3096.3388	10.01	-3.15	318191.950	3.5	321420.690	2.5
3096.4923	14.02	-3.55	201599.480	3.0	204828.060	3.0
3096.5403	10.01	-2.04	318841.850	3.5	322070.380	3.5
3096.5787	10.01	-1.28	318841.890	4.5	322070.380	3.5
3096.5978	10.01	-4.55	318191.940	2.5	321420.410	1.5
3096.7110	20.00	-4.41	44804.878	3.0	48033.230	2.0
3096.8664	6.00	-4.42	80562.850	1.0	83791.040	2.0
3096.9528	14.00	-.10	54313.818	1.0	57541.918	1.0
3097.1542	10.01	-2.94	318828.550	3.5	322056.440	3.5
3097.4325	13.01	-3.26	144990.000	4.0	148217.600	4.0
3097.4325	13.01	-3.40	144990.000	4.0	148217.600	4.0
3097.4325	13.01	-1.63	144990.000	5.0	148217.600	4.0
3097.4325	13.01	-4.73	144990.000	5.0	148217.600	4.0
3097.4325	13.01	-1.63	144990.000	5.0	148217.600	4.0
3097.4325	13.01	-3.27	144990.000	5.0	148217.600	5.0
3097.4325	13.01	-3.38	144990.000	5.0	148217.600	5.0
3097.4325	13.01	-1.55	144990.000	6.0	148217.600	5.0
3097.4325	13.01	-1.73	144990.000	4.0	148217.600	3.0
3097.4402	26.00	-4.81	48122.913	3.0	51350.505	4.0
3097.4517	28.01	-4.09	118248.980	5.5	121476.560	6.5
3097.5477	10.01	-4.25	318828.550	3.5	322056.030	4.5
3097.5621	26.00	-3.41	40207.120	3.0	43434.585	3.0
3097.7233	14.00	-3.09	60487.103	1.0	63714.400	2.0
3097.7589	10.01	-.79	318196.750	5.5	321424.010	4.5
3097.7685	6.00	-.26	78116.740	1.0	81343.990	2.0
3097.7972	10.01	-2.60	318196.750	5.5	321423.970	5.5
3097.8164	10.01	-.71	318196.770	6.5	321423.970	5.5
3097.8932	26.02	-3.11	219471.970	4.0	222699.090	5.0
3097.9988	14.02	-2.48	254694.990	5.0	257922.000	5.0
3097.9988	14.02	-2.59	254694.990	5.0	257922.000	5.0
3097.9988	14.02	-4.38	254694.990	5.0	257922.000	6.0
3097.9988	14.02	-.68	254694.990	6.0	257922.000	5.0
3097.9988	14.02	-4.14	254694.990	6.0	257922.000	5.0
3097.9988	14.02	-.68	254694.990	6.0	257922.000	5.0
3097.9988	14.02	-2.49	254694.990	6.0	257922.000	6.0
3097.9988	14.02	-2.58	254694.990	6.0	257922.000	6.0
3097.9988	14.02	-.61	254694.990	7.0	257922.000	6.0
3097.9988	14.02	-.76	254694.990	5.0	257922.000	4.0
3098.2964	15.00	-3.49	77843.300	1.5	81070.000	1.5
3098.3541	14.00	-4.24	61617.170	4.0	64843.810	4.0
3098.5941	27.00	-4.63	48334.370	1.5	51560.760	2.5
3098.7718	18.00	-1.13	113716.610	3.0	116942.815	3.0
3098.7959	10.01	-.98	319111.700	3.5	322337.880	2.5
3098.8247	19.00	-1.55	30185.240	2.5	33411.390	1.5
3098.8727	15.00	-2.98	77843.900	2.5	81070.000	1.5
3098.8727	13.01	-1.50	142958.900	1.0	146185.000	1.0
3098.8727	13.01	-1.03	142958.900	1.0	146185.000	2.0
3099.1032	10.01	-.53	318202.210	1.5	321428.070	2.5
3099.1513	6.00	-3.49	83877.310	1.0	87103.120	1.0
3099.2617	14.00	-4.27	60962.105	2.0	64187.800	3.0
3099.2761	10.01	-2.41	319111.700	3.5	322337.380	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3099.2857	10.01	-.87	319111.710	4.5	322337.380	3.5
3099.3050	19.00	-2.50	30185.740	1.5	33411.390	1.5
3099.4011	9.00	-2.50	129772.830	2.5	132998.380	1.5
3099.4683	25.00	-2.91	59527.890	1.5	62753.370	2.5
3099.7470	6.00	-1.28	85399.810	2.0	88625.000	3.0
3099.7643	14.00	-.83	60496.358	2.0	63721.530	2.0
3099.9778	6.00	-1.72	84116.090	1.0	87341.040	0.0
3099.9893	17.00	-1.96	97674.092	3.5	100899.030	3.5
3099.9893	17.00	-1.27	97674.092	3.5	100899.030	4.5
3100.0257	6.01	-2.82	184466.500	4.5	187691.400	4.5
3100.0257	6.01	-1.09	184466.500	5.5	187691.400	4.5
3100.0257	6.01	-1.18	184466.500	4.5	187691.400	3.5
3100.1700	10.01	-1.69	318183.690	4.5	321408.440	3.5
3100.2181	17.00	-2.75	97674.330	2.5	100899.030	3.5
3100.4199	19.00	-1.80	30185.740	1.5	33410.230	.5
3100.5450	25.00	-3.80	59290.230	3.5	62514.590	2.5
3100.5450	10.01	-3.75	318184.260	3.5	321408.620	2.5
3100.5988	17.00	-.30	96945.536	2.5	100169.840	3.5
3100.7181	10.01	-1.93	318184.260	3.5	321408.440	3.5
3100.7276	10.01	-1.06	318184.270	4.5	321408.440	3.5
3100.8190	7.00	-.96	106996.032	1.5	110220.107	1.5
3100.8527	28.01	-2.35	131032.010	2.5	134256.050	2.5
3100.8700	7.00	-1.92	104221.600	1.5	107445.622	1.5
3100.9778	17.00	-1.04	97666.650	4.5	100890.560	5.5
3101.0451	17.00	-2.67	97666.650	4.5	100890.490	4.5
3101.0461	20.00	-1.49	42514.845	0.0	45738.684	1.0
3101.0701	26.00	-4.29	48516.150	1.0	51739.964	2.0
3101.3164	22.00	-4.38	38764.832	3.0	41988.390	3.0
3101.4684	30.02	-3.72	296852.700	1.0	300076.100	2.0
3101.7629	17.00	-2.24	97667.396	3.5	100890.490	4.5
3101.8841	28.00	-4.28	48817.600	1.0	52040.568	2.0
3101.9688	10.01	-2.25	318828.550	2.5	322051.430	2.5
3101.9688	10.01	-1.49	318828.550	3.5	322051.430	2.5
3102.1613	28.01	-1.32	131032.010	2.5	134254.690	1.5
3102.4309	10.01	-1.43	318828.550	2.5	322050.950	1.5
3102.5656	10.01	-1.42	318183.690	4.5	321405.950	3.5
3102.6619	27.00	-4.66	52355.120	.5	55577.280	1.5
3103.0182	28.01	-4.66	118923.200	3.5	122144.990	2.5
3103.1146	10.01	-3.52	318184.260	3.5	321405.950	3.5
3103.1242	10.01	-1.37	318184.270	4.5	321405.950	3.5
3103.2013	25.00	-2.58	59257.440	4.5	62479.040	4.5
3103.2398	10.01	-1.88	318183.690	4.5	321405.250	4.5
3103.2687	17.00	-3.13	97666.650	4.5	100888.180	3.5
3103.2784	10.01	-.79	318183.730	5.5	321405.250	4.5
3103.5866	17.01	-3.39	158768.600	2.0	161989.800	1.0
3103.7889	10.01	-3.47	318184.260	3.5	321405.250	4.5
3103.7986	10.01	-2.52	318184.270	4.5	321405.250	4.5
3103.9335	28.01	-1.04	131032.010	2.5	134252.850	3.5
3103.9875	17.00	-4.58	97667.396	3.5	100888.180	2.5
3103.9875	17.00	-3.27	97667.396	3.5	100888.180	3.5
3103.9914	6.00	-.42	78104.980	0.0	81325.760	1.0
3104.0867	17.00	-1.61	96945.536	2.5	100166.217	3.5
3104.1523	10.00	-4.83	167069.064	3.0	170289.677	3.0
3104.4973	10.00	-4.91	167069.064	3.0	170289.319	2.0
3104.7663	20.00	-1.49	42518.708	1.0	45738.684	1.0
3104.8570	10.00	-4.96	167069.077	2.0	170288.959	2.0
3105.0325	17.00	-4.19	98372.970	1.5	101592.670	.5
3105.3604	14.01	-1.17	121814.640	.5	125034.000	1.5
3105.7270	28.01	-4.58	134316.850	6.5	137535.830	5.5
3106.0165	28.01	-4.50	118828.610	2.5	122047.290	3.5
3106.1246	7.00	-.68	107182.788	1.5	110401.356	2.5
3106.2963	9.01	-3.53	236960.830	1.0	240179.220	0.0
3106.3639	10.01	-3.12	318202.370	1.5	321420.690	2.5
3106.3832	10.01	-4.68	318202.390	2.5	321420.690	2.5
3106.5078	16.00	.56	70701.840	2.0	73920.011	3.0
3106.6149	6.00	-2.02	83747.390	2.0	86965.450	2.0
3106.6322	14.00	-1.49	60496.358	2.0	63714.400	2.0
3106.6342	10.01	-2.16	318202.370	1.5	321420.410	1.5
3106.6439	24.00	-4.01	24282.340	4.0	27500.370	3.0
3106.6535	10.01	-1.21	318202.390	2.5	321420.410	1.5
3106.9528	28.01	-2.60	131032.010	2.5	134249.720	1.5
3107.0011	28.01	-3.25	91800.050	4.5	95017.710	4.5
3107.0204	22.00	-4.70	38654.230	1.0	41871.870	2.0
3107.0204	22.00	-4.26	37976.780	2.0	41194.420	3.0
3107.0301	21.00	-4.09	31172.620	1.5	34390.250	.5
3107.1459	28.01	-4.42	118923.200	3.5	122140.710	4.5
3107.2522	7.00	-4.08	112946.600	1.5	116164.000	.5
3107.2522	7.00	-4.83	112946.600	1.5	116164.000	1.5
3107.3198	22.00	-4.92	38654.230	1.0	41871.560	0.0
3107.4743	28.01	-4.44	51045.460	4.5	54262.630	3.5
3107.5052	7.00	-.62	107253.106	2.5	110470.244	2.5
3107.5226	28.01	-4.07	97273.830	2.5	100490.950	1.5
3107.6386	15.00	-2.46	75905.100	2.5	79122.100	1.5
3107.9477	10.01	-2.41	318191.940	2.5	321408.620	2.5
3107.9574	10.01	-1.06	318191.950	3.5	321408.620	2.5
3107.9670	9.02	-2.63	441406.460	3.5	444623.120	3.5
3107.9689	28.00	-4.24	44112.192	1.0	47328.850	2.0
3108.1216	10.01	-2.75	318191.940	2.5	321408.440	3.5
3108.1312	10.01	-2.13	318191.950	3.5	321408.440	3.5
3108.2202	17.00	-2.17	97674.092	3.5	100890.490	4.5
3108.2530	7.00	-2.60	106996.032	1.5	110212.396	2.5
3108.3245	21.00	-3.55	31350.810	4.5	34567.100	3.5
3108.3758	12.00	-1.79	56186.873	0.0	59403.110	1.0
3108.4116	8.01	.65	257963.800	2.5	261180.000	3.5
3108.5082	6.00	-2.08	83740.060	0.0	86956.160	1.0
3108.6783	17.00	-3.87	94314.206	1.5	97530.130	2.5
3108.8204	14.00	-3.38	47284.061	1.0	50499.838	2.0
3109.3009	18.01	-3.69	186890.950	2.5	190106.230	1.5
3109.3783	6.00	-1.24	85399.810	2.0	88615.010	1.0
3109.4499	22.00	-4.16	37824.748	4.0	41039.874	5.0
3109.5312	14.00	-1.71	60010.458	1.0	63225.500	2.0
3109.5485	18.00	-4.98	121161.356	1.0	124376.380	1.0
3109.5717	8.01	-2.86	248009.100	1.5	251224.100	2.5
3109.9683	10.01	-3.42	318841.850	3.5	322056.440	3.5
3109.9722	26.00	-4.82	53568.720	2.0	56783.306	3.0
3110.0070	10.01	-1.11	318841.890	4.5	322056.440	3.5
3110.2296	28.01	-1.65	121437.680	5.5	124652.000	4.5
3110.2490	18.01	-.11	201781.790	2.5	204996.090	3.5
3110.3650	10.01	-3.74	318841.850	3.5	322056.030	4.5
3110.3708	7.00	-.78	106980.480	.5	110194.654	1.5
3110.4038	10.01	-2.15	318841.890	4.5	322056.030	4.5
3110.4541	17.00	-4.84	97674.092	3.5	100888.180	3.5
3110.5296	10.01	-4.44	318191.940	2.5	321405.950	3.5
3110.5393	10.01	-1.77	318191.950	3.5	321405.950	3.5
3110.6844	17.00	-4.49	97674.330	2.5	100888.180	3.5
3110.8393	28.01	-3.52	118927.020	4.5	122140.710	4.5
3110.8877	9.00	.21	129381.860	2.5	132595.500	2.5
3111.2169	10.01	-2.89	318191.950	3.5	321405.250	4.5
3111.4202	22.00	-3.44	38544.380	3.0	41757.470	3.0
3111.4686	6.00	-1.67	83752.410	1.0	86965.450	2.0
3111.8173	9.02	-1.18	441276.720	2.5	444489.400	2.5
3111.8221	7.00	-1.01	107182.788	1.5	110395.463	1.5
3111.9238	28.01	-.48	134316.800	7.5	137529.370	6.5
3111.9723	28.01	-2.45	134316.850	6.5	137529.370	6.5
3112.0982	25.00	-4.46	59360.720	2.5	62573.110	1.5
3112.3424	16.00	.41	70701.840	2.0	73913.978	2.0
3112.3860	20.00	-.79	42526.591	2.0	45738.684	1.0
3112.3986	28.01	-2.17	134323.880	2.5	137535.960	3.5
3112.5730	19.02	-3.76	238455.100	.5	241667.000	.5
3112.5924	28.01	-3.18	52205.950	3.5	55417.830	3.5
3112.6117	23.00	-2.70	39341.760	3.5	42553.620	4.5
3112.7474	28.01	-4.55	131124.960	3.5	134336.680	4.5
3112.7969	26.00	-2.70	44166.240	3.0	47377.909	4.0
3112.8831	27.00	-2.06	45105.590	3.5	48317.170	3.5
3113.2321	6.00	-1.35	83791.040	2.0	87002.260	3.0
3113.3194	28.01	-4.38	131122.280	5.5	134333.410	6.5
3113.4454	13.01	-.90	146414.500	3.0	149625.500	2.0
3113.4454	13.01	-2.33	146414.500	3.0	149625.500	3.0
3113.4454	13.01	-3.76	146414.500	3.0	149625.500	4.0
3113.4454	13.01	-1.48	146414.500	4.0	149625.500	3.0
3113.4454	13.01	-.41	146414.500	4.0	149625.500	3.0
3113.4454	13.01	-2.20	146414.500	4.0	149625.500	4.0
3113.4454	13.01	-2.34	146414.500	4.0	149625.500	4.0
3113.4454	13.01	-.67	146414.500	5.0	149625.500	4.0
3113.6878	28.01	-2.34	135678.180	6.5	138888.930	6.5
3113.7780	14.00	.57	54257.582	3.0	57468.239	2.0
3113.8721	14.01	-1.51	121814.640	.5	125025.200	.5
3113.9303	7.00	-3.38	112953.500	4.5	116164.000	3.5
3114.2029	7.00	.13	107037.069	2.5	110247.288	3.5
3114.3183	25.00	-4.59	45060.810	3.5	48270.910	2.5
3114.3668	27.00	-4.62	50578.730	3.5	53788.780	4.5
3114.7064	15.00	-4.17	76192.300	1.5	79402.000	2.5
3114.7646	18.01	-1.41	196315.510	2.5	199525.150	1.5
3114.7743	19.00	-.95	27397.100	2.5	30606.730	2.5
3114.7743	19.00	.35	27397.100	2.5	30606.730	3.5
3114.8229	10.01	-1.15	318841.850	3.5	322051.430	2.5
3114.9228	12.00	-.05	49346.729	1.0	52556.206	0.0
3115.2402	22.00	-4.46	38159.710	3.0	41368.860	4.0
3115.3665	6.00	-.56	78116.740	1.0	81325.760	1.0
3115.4897	22.00	-2.78	34535.040	2.0	37743.933	3.0
3115.6091	29.01	-2.66	133826.200	2.0	137034.970	3.0
3115.6092	6.00	-1.92	83747.390	2.0	86956.160	1.0
3115.6480	18.01	-2.06	201720.670	1.5	204929.400	.5
3115.6674	9.00	.27	130374.860	1.5	133583.570	2.5
3115.7839	19.00	.19	27398.140	1.5	30606.730	2.5
3115.8616	29.01	-3.96	135910.990	2.0	139119.500	3.0
3115.9014	16.00	.19	70701.840	2.0	73910.309	1.0
3115.9490	28.01	-1.08	134327.540	3.5	137535.960	3.5
3115.9685	7.00	-3.98	112946.600	.5	116155.000	.5
3116.0170	28.01	-1.99	134327.610	2.5	137535.960	3.5
3116.0753	27.00	-3.55	43537.710	1.5	46746.000	2.5
3116.2210	26.02	-3.48	219566.080	3.0	222774.220	2.0
3116.3288	22.00	-3.48	32857.721	3.0	36065.750	3.0
3116.4619	28.00	-4.74	47328.850	2.0	50536.742	1.0
3116.6290	6.01	.46	175287.390	.5	178495.110	1.5
3116.6484	28.01	-3.22	118877.090	1.5	122084.790	1.5
3116.6970	29.01	-3.50	130386.400	2.0	133594.050	3.0
3116.9399	30.02	-4.16	296875.600	2.0	300083.000	3.0
3117.1149	24.00	-4.62	48824.500	4.0	52031.720	3.0
3117.2412	21.00	-3.89	31215.760	2.5	34422.850	1.5
3117.3384	6.00	-3.61	85399.810	2.0	88606.800	3.0
3117.3579	17.00	-2.30	97739.040	.5	100946.010	.5
3117.5912	28.01	-3.76	115108.090	2.5	118314.820	2.5
3117.7749	17.00	-2.56	92194.190	1.5	95400.731	2.5
3118.0579	10.01	-2.95	318202.370	1.5	321408.620	2.5
3118.0773	10.01	-1.79	318202.390	2.5	321408.620	2.5
3118.2524	10.01	-3.41	318202.390	2.5	321408.440	3.5
3118.3011	15.00	-.95	72493.800	1.5	75699.800	.5
3118.5637	26.00	-4.54	32873.623	4.0	36079.353	3.0
3119.0307	29.01	-1.17	133594.050	3.0	136799.300	2.0
3119.3324	6.00	-2.78	85399.810	2.0	88604.750	2.0
3119.5368	21.00	-3.70	31275.320	3.5	34480.050	2.5
3119.5660	30.02	-4.13	296921.300	3.0	300126.000	4.0
3119.8200	7.00	-2.64	111853.061	1.5	115057.500	1.5
3119.8678	27.00	-4.42	48828.870	2.5	52033.260	1.5
3120.0333	28.01	-3.42	134325.150	7.5	137529.370	6.5
3120.0626	6.00	-1.13	83761.260	3.0	86965.450	2.0
3120.0917	26.00	-3.62	44551.325	3.0	47755.485	3.0
3120.1307	28.01	-3.38	134331.840	4.5	137535.960	3.5
3120.2573	28.01	-1.74	134331.840	4.5	137535.830	5.5
3120.4911	6.00	-3.30	83752.410	1.0	86956.160	1.0
3120.5494	6.00	-.84	83798.570	4.0	87002.260	3.0
3120.5982	28.01	-4.14	134327.540	3.5	137531.180	4.5
3120.6761	10.01	-3.14	318202.390	2.5	321405.950	3.5
3120.9557	26.00	-4.76	40231.312	2.0	43434.585	3.0
3121.2149	7.00	-2.14	107182.788	1.5	110385.795	.5
3121.2783	14.00	-2.01	60381.278	1.0	63584.220	1.0
3121.3289	55.00	-1.54	22588.890	0.0	25792.654	0.0
3121.3679	28.01	-1.90	134323.880	1.5	137526.730	2.5
3121.3679	28.01	-1.74	134323.880	2.5	137526.730	2.5
3121.3874	28.01	-1.26	134316.800	7.5	137519.630	7.5
3121.4264	15.01	-4.56	102799.200	1.0	106001.990	1.0
3121.4361	28.01	-3.32	134316.850	6.5	137519.630	7.5
3121.6700	9.00	-.07	130374.860	1.5	133577.400	1.5
3121.7870	28.01	-.96	134333.410	5.5	137535.830	5.5
3121.7870	28.01	-.62	134333.410	6.5	137535.830	5.5
3121.9137	28.01	-.42	135686.640	7.5	138888.930	6.5
3121.9137	28.01	-1.39	135686.640	6.5	138888.930	6.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3122.0990	17.01	-2.25	143996.300	4.0	147198.400	4.0
3122.1185	9.00	-.58	126282.580	1.5	129484.660	1.5
3122.2062	28.01	-3.57	97273.830	2.5	100475.820	3.5
3122.2648	26.02	-2.88	198717.600	4.0	201919.530	4.0
3122.4890	15.01	-.50	127600.000	1.0	130801.700	1.0
3122.5934	22.00	-4.71	38699.767	2.0	41901.360	1.0
3122.9709	18.00	-3.51	122282.134	2.0	125483.340	2.0
3122.9963	28.01	-4.66	118939.530	5.5	122140.710	4.5
3123.1465	18.00	-3.28	122282.134	2.0	125483.160	3.0
3123.2109	6.01	.71	175294.750	1.5	178495.710	2.5
3123.5954	18.00	-2.13	122282.134	2.0	125482.700	3.0
3123.6598	30.02	-4.06	296875.600	2.0	300076.100	2.0
3123.7769	28.01	-3.09	115739.150	4.5	118939.530	5.5
3123.7965	6.01	-.24	175294.750	1.5	178495.110	1.5
3124.0395	14.00	-.72	58311.659	0.0	61511.770	1.0
3124.0600	26.02	-3.44	201892.440	5.0	205092.530	4.0
3124.0991	6.00	-4.90	83877.310	1.0	87077.360	0.0
3124.1869	26.02	-4.55	219566.080	3.0	222766.040	3.0
3124.2553	26.02	-2.72	219566.080	3.0	222765.970	4.0
3124.2943	14.00	-4.02	59032.140	2.0	62231.990	2.0
3124.5091	28.01	-1.54	134323.880	2.5	137523.510	3.5
3124.7924	28.01	-.95	134331.840	4.5	137531.180	4.5
3124.8510	28.01	-.85	134336.680	4.5	137535.960	3.5
3124.9389	28.01	-1.03	134327.540	3.5	137526.730	2.5
3124.9681	20.00	-1.44	44989.830	2.0	48188.990	3.0
3124.9779	28.01	-3.43	134336.680	4.5	137535.830	5.5
3124.9779	28.01	-3.84	134336.680	5.5	137535.830	5.5
3125.0072	28.01	-1.26	134327.610	2.5	137526.730	2.5
3125.4469	7.00	-3.99	112965.330	3.5	116164.000	3.5
3125.4938	7.00	-1.09	106996.032	1.5	110194.654	1.5
3125.5847	17.00	-.91	97004.081	1.5	100202.610	1.5
3125.6619	25.00	-2.15	57621.900	1.5	60820.350	2.5
3125.8387	17.00	-1.90	97004.081	1.5	100202.350	.5
3125.9434	14.00	-1.98	60381.278	1.0	63579.440	0.0
3125.9815	26.00	-4.90	51103.237	5.0	54301.360	4.0
3126.0089	7.00	-1.32	111060.905	.5	114259.000	1.5
3126.0802	26.00	-4.60	52180.820	1.0	55378.842	2.0
3126.1016	15.00	-3.99	76021.600	1.5	79219.600	.5
3126.1554	14.00	-1.51	50189.389	2.0	53387.334	1.0
3126.3265	28.01	-.78	134333.410	5.5	137531.180	4.5
3126.5710	25.00	-4.71	41932.640	3.5	45130.160	4.5
3126.7860	7.00	-4.04	112957.700	2.5	116155.000	1.5
3126.7860	7.00	-3.68	112957.700	1.5	116155.000	.5
3126.8398	20.00	-1.35	44989.830	2.0	48187.075	3.0
3126.8692	20.00	-2.27	44989.830	2.0	48187.045	2.0
3127.1285	14.01	-2.68	124948.660	3.5	128145.610	3.5
3127.1285	14.01	-1.13	124948.660	4.5	128145.610	3.5
3127.1285	14.01	-1.25	124948.660	3.5	128145.610	2.5
3127.2458	7.00	-4.88	112967.170	3.5	116164.000	3.5
3127.5491	28.01	-2.93	76727.360	5.5	79923.880	4.5
3127.6371	24.00	-4.81	24303.940	3.0	27500.370	3.0
3128.0873	28.01	-2.97	134327.540	3.5	137523.510	3.5
3128.0971	28.01	-1.99	134333.410	5.5	137529.370	6.5
3128.0971	28.01	-1.06	134333.410	6.5	137529.370	6.5
3128.1558	28.01	-2.28	134327.610	2.5	137523.510	3.5
3128.1558	6.00	.31	78148.090	2.0	81343.990	2.0
3128.2341	29.01	-2.06	117883.140	4.0	121078.960	3.0
3128.2537	18.01	-1.82	201781.790	2.5	204977.590	2.5
3128.4984	26.02	-3.95	219415.610	5.0	222611.160	5.0
3128.6453	27.00	-4.40	50593.380	4.5	53788.780	4.5
3128.6453	15.00	-1.38	72493.800	1.5	75689.200	1.5
3128.6707	18.00	-4.88	121161.356	1.0	124356.730	2.0
3128.6845	28.01	-3.28	135693.570	5.5	138888.930	6.5
3128.6943	28.01	-1.62	134323.880	1.5	137519.230	2.5
3128.6943	28.01	-1.19	134323.880	2.5	137519.230	2.5
3128.7461	26.00	-4.59	52180.820	1.0	55376.117	1.0
3128.9499	17.00	-3.22	97703.941	2.5	100899.030	3.5
3129.2133	28.01	-2.38	115120.000	2.5	118314.820	2.5
3129.5267	28.01	-2.52	134336.680	5.5	137531.180	4.5
3129.5356	7.00	-1.90	111905.609	2.5	115100.100	2.5
3129.5463	28.01	-.37	134325.150	8.5	137519.630	7.5
3129.5463	28.01	-2.63	134325.150	7.5	137519.630	7.5
3129.7520	6.00	-.29	78116.740	1.0	81311.010	0.0
3129.7716	14.00	-1.63	59032.140	2.0	62226.390	1.0
3130.0891	7.00	-1.59	107253.106	2.5	110447.032	1.5
3130.1146	15.01	-3.80	127756.300	2.0	130950.200	2.0
3130.3322	22.00	-4.65	38764.832	3.0	41958.510	2.0
3130.4087	13.01	-.61	144939.100	1.0	148132.700	2.0
3130.4871	9.02	-2.27	441276.720	2.5	444470.240	1.5
3130.5538	26.00	-4.87	39969.830	3.0	43163.282	4.0
3130.6636	18.01	-1.43	200151.640	1.5	203344.980	1.5
3130.8498	21.00	-3.58	33846.620	3.5	37039.770	2.5
3131.1205	26.00	-4.33	50698.666	2.0	53891.540	3.0
3131.2225	22.00	-2.49	25635.740	1.0	28828.510	2.0
3131.3009	28.01	-3.49	134336.680	5.5	137529.370	6.5
3131.6540	6.01	-2.14	184449.270	3.5	187641.600	3.5
3131.6540	6.01	-.60	184449.270	4.5	187641.600	3.5
3131.6540	6.01	-.71	184449.270	3.5	187641.600	2.5
3131.6933	16.00	.09	75951.060	1.0	79143.350	2.0
3131.7129	28.01	-2.27	134334.460	1.5	137526.730	2.5
3131.7129	27.00	-4.49	51160.030	2.5	54352.300	3.5
3132.0367	7.00	-3.35	112967.060	4.5	116159.000	3.5
3132.0956	9.01	-3.06	236960.830	1.0	240152.710	1.0
3132.1937	16.00	-.64	75951.570	2.0	79143.350	2.0
3132.1937	16.00	.26	75951.570	2.0	79143.350	3.0
3132.2820	28.01	-2.61	134327.540	3.5	137519.230	2.5
3132.3016	28.01	-.97	134331.840	4.5	137523.510	3.5
3132.3507	28.01	-1.76	134327.610	2.5	137519.230	2.5
3132.3899	18.01	-4.80	199959.620	2.5	203151.200	2.5
3132.4646	18.00	.05	113468.550	2.0	116660.054	1.0
3132.7728	23.00	-4.55	39127.230	1.5	42318.420	1.5
3133.1753	27.00	-4.72	43555.220	3.5	46746.000	2.5
3133.4798	21.00	-4.72	30573.100	.5	33763.570	1.5
3133.6978	18.00	-1.80	119444.880	2.0	122635.128	2.0
3134.1379	14.00	-1.39	60300.860	2.0	63490.660	3.0
3134.3030	18.00	-3.13	121932.908	1.0	125122.540	0.0
3134.3738	6.00	-1.10	80562.850	1.0	83752.410	1.0
3134.3836	29.01	-3.95	135952.550	2.0	139142.100	2.0
3134.4623	9.02	-3.43	441385.880	1.5	444575.350	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3134.6489	23.02	-4.09	159146.600	2.5	162335.880	3.5
3135.1110	25.00	-1.71	59290.230	3.5	62479.040	4.5
3135.1405	9.02	-2.89	440582.120	4.5	443770.900	3.5
3135.2584	25.00	-4.34	59384.450	1.5	62573.110	1.5
3135.3371	14.00	-2.17	60300.860	2.0	63489.440	2.0
3136.1476	18.00	-3.55	116660.054	1.0	119847.810	1.0
3136.2519	16.00	-.65	75955.700	3.0	79143.350	3.0
3136.2519	16.00	.42	75955.700	3.0	79143.350	4.0
3136.2519	16.00	-2.19	75955.700	3.0	79143.350	2.0
3136.5844	10.00	-3.64	166656.508	1.0	169843.820	2.0
3136.7143	27.00	-3.73	41918.410	3.5	45105.590	3.5
3136.7182	17.00	-2.45	91127.030	2.5	94314.206	1.5
3136.7438	14.00	-1.25	60300.860	2.0	63488.010	3.0
3136.8324	20.01	-2.13	83540.000	3.5	86727.060	3.5
3136.8324	20.01	-.59	83540.000	4.5	86727.060	3.5
3136.8324	20.01	-.70	83540.000	3.5	86727.060	2.5
3136.9309	23.00	-3.71	39391.020	4.5	42577.980	5.5
3136.9998	26.02	-3.25	219415.610	5.0	222602.500	6.0
3137.0391	28.01	-3.46	118897.940	2.5	122084.790	1.5
3137.0588	28.01	-3.50	134336.680	4.5	137523.510	3.5
3137.0884	30.02	-3.89	296921.300	3.0	300108.100	3.0
3137.2951	22.00	-2.87	25605.030	0.0	28791.620	1.0
3137.3739	14.02	.25	227081.190	1.0	230267.700	2.0
3137.4132	23.00	-4.78	38242.460	3.5	41428.930	2.5
3137.5117	17.00	-3.77	97712.660	4.5	100899.030	3.5
3137.5413	24.00	-4.22	40906.460	1.0	44092.800	0.0
3137.6594	28.01	-2.44	134333.410	6.5	137519.630	7.5
3137.7678	6.00	-3.20	84032.150	1.0	87218.260	2.0
3137.7973	28.01	-2.74	115108.090	2.5	118294.170	3.5
3137.8829	7.00	-4.09	112294.007	.5	115480.000	1.5
3137.9746	11.00	-2.38	37296.320	.5	40482.220	.5
3138.1243	14.00	-3.47	59191.072	2.0	62376.820	3.0
3138.3696	17.00	-4.70	96482.889	2.5	99668.388	3.5
3138.3982	19.00	-.09	21534.700	2.5	24720.170	1.5
3139.0436	22.00	-4.99	25643.695	3.0	28828.510	2.0
3139.0880	28.01	-1.79	134334.460	1.5	137519.230	2.5
3139.2092	18.00	-3.91	120188.340	1.0	123372.987	2.0
3139.2457	11.00	-2.08	37297.610	1.5	40482.220	.5
3139.3147	6.00	.10	80562.850	1.0	83747.390	2.0
3139.3147	17.00	-.90	97703.640	1.5	100888.180	2.5
3139.3541	18.01	-3.44	186470.280	1.5	189654.780	2.5
3139.4034	6.00	-3.16	85399.810	2.0	88584.260	2.0
3139.4428	14.02	.40	227084.210	2.0	230268.620	3.0
3139.5247	18.00	-4.53	120188.660	2.0	123372.987	2.0
3139.5878	22.00	-2.60	37659.927	3.0	40844.190	3.0
3139.6115	17.00	-2.86	97703.941	2.5	100888.180	2.5
3139.6115	17.00	-2.16	97703.941	2.5	100888.180	3.5
3139.6992	26.02	-2.64	219566.080	3.0	222750.230	3.0
3139.8471	17.01	-3.66	158723.700	1.0	161907.700	2.0
3140.3502	14.02	-.48	227084.210	2.0	230267.700	2.0
3140.4290	28.01	-4.67	99559.330	2.5	102742.740	1.5
3140.6658	19.00	-1.05	21537.000	1.5	24720.170	1.5
3140.7960	7.00	-1.46	107037.069	2.5	110220.107	1.5
3140.8908	10.00	-3.79	166656.508	1.0	169839.450	1.0
3141.1197	22.00	-4.92	43467.550	2.0	46650.260	3.0
3141.2579	9.00	-.15	130374.860	1.5	133557.430	2.5
3141.3369	22.00	-2.60	25699.950	2.0	28882.440	3.0
3141.3665	24.00	-4.27	40906.460	1.0	44088.920	1.0
3141.5037	26.00	-2.00	47966.571	3.0	51148.892	2.0
3141.5086	26.00	-4.73	45333.834	2.0	48516.150	1.0
3141.5146	28.01	-4.84	118897.940	2.5	122080.250	2.5
3141.8798	14.02	.58	227088.720	3.0	230270.660	4.0
3141.8858	22.00	-2.68	18287.560	4.0	21469.494	3.0
3142.3243	24.00	-3.39	31009.000	3.0	34190.490	2.0
3142.3638	28.01	-3.95	99844.130	3.5	103025.580	2.5
3142.4675	17.00	-.51	97004.081	1.5	100185.426	2.5
3142.6710	17.00	-3.20	97004.081	1.5	100185.220	1.5
3143.8955	14.02	-.51	227088.720	3.0	230268.620	3.0
3144.5877	14.02	-1.96	254674.400	4.0	257853.600	4.0
3144.5877	14.02	-2.10	254674.400	4.0	257853.600	4.0
3144.5877	14.02	-.34	254674.400	5.0	257853.600	4.0
3144.5877	14.02	-4.53	254674.400	5.0	257853.600	4.0
3144.5877	14.02	-3.44	254674.400	5.0	257853.600	4.0
3144.5877	14.02	-.34	254674.400	5.0	257853.600	4.0
3144.5877	14.02	-3.72	254674.400	4.0	257853.600	5.0
3144.5877	14.02	-1.98	254674.400	5.0	257853.600	5.0
3144.5877	14.02	-2.08	254674.400	5.0	257853.600	5.0
3144.5877	14.02	-.26	254674.400	6.0	257853.600	5.0
3144.5877	14.02	-.44	254674.400	4.0	257853.600	3.0
3144.6738	17.00	-3.22	94663.670	1.5	97842.783	1.5
3144.8053	14.02	-2.03	227088.720	3.0	230267.700	2.0
3145.0724	28.01	-4.63	116824.150	2.5	120002.860	3.5
3145.7157	25.00	-3.95	59116.600	2.5	62294.660	3.5
3145.7236	14.00	-2.98	60706.558	1.0	63884.610	1.0
3145.8444	17.00	-2.26	97712.630	5.5	100890.560	5.5
3145.8740	17.00	-3.95	97712.660	4.5	100890.560	5.5
3146.1018	6.00	-.05	78148.090	2.0	81325.760	1.0
3146.1711	30.02	-4.33	296875.600	2.0	300053.200	2.0
3146.2255	26.00	-4.15	45061.287	3.0	48238.832	2.0
3146.4780	24.00	-3.98	52031.720	3.0	55209.010	4.0
3146.5573	28.01	-3.25	100475.820	3.5	103653.030	3.5
3146.5573	6.00	-2.33	80562.850	1.0	83740.060	0.0
3146.5652	14.00	-3.09	57468.239	2.0	60645.441	2.0
3146.9386	14.00	-2.41	59273.575	1.0	62450.400	1.0
3146.9634	30.02	-3.30	296921.300	3.0	300098.100	4.0
3147.2804	21.00	-2.48	33154.010	2.5	36330.490	2.5
3147.3260	26.00	-4.33	48531.896	3.0	51708.330	2.0
3148.2318	27.00	-3.30	43199.650	2.5	46375.170	1.5
3148.2695	14.00	-3.69	59056.508	1.0	62231.990	2.0
3148.4232	7.00	-.66	107037.069	2.5	110212.396	2.5
3148.5590	28.01	-3.05	115739.150	4.5	118914.340	4.5
3148.7078	25.00	-4.88	59339.550	3.5	62514.590	2.5
3148.9062	26.02	-3.43	198717.600	4.0	201892.440	5.0
3149.0004	14.00	-2.49	60815.925	2.0	63990.670	2.0
3149.3327	6.00	-2.94	83791.040	2.0	86965.450	2.0
3149.3922	10.00	-5.00	169814.630	2.0	172988.980	1.0
3149.5708	28.01	-3.57	115120.000	2.5	118294.170	3.5
3149.6403	26.01	.05	84296.700	5.5	87470.800	4.5
3149.9876	27.00	-4.24	45904.680	1.5	49078.430	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3150.1147	17.00	-.58	92140.127	1.5	95313.749	1.5
3150.4780	26.00	-4.54	47929.981	4.0	51103.237	5.0
3150.5535	28.01	-4.26	118874.110	3.5	122047.290	3.5
3150.6091	14.00	-3.04	60848.946	4.0	64022.070	3.0
3150.7322	26.02	-2.40	201919.530	4.0	205092.530	4.0
3150.8802	14.00	.41	50189.389	2.0	53362.240	3.0
3150.9308	6.00	-2.88	83740.060	0.0	86912.860	1.0
3151.0768	10.00	-3.40	169814.630	2.0	172987.283	3.0
3151.1552	10.00	-4.25	169814.630	2.0	172987.204	2.0
3151.2784	10.00	-4.77	169814.630	2.0	172987.080	2.0
3151.6758	9.02	-.09	441406.460	3.5	444578.510	4.5
3151.7453	27.00	-3.67	53373.530	3.5	56545.510	2.5
3152.0435	28.01	.74	131928.770	4.5	135100.450	3.5
3152.0534	17.00	-1.90	99354.670	1.5	102526.340	2.5
3152.3317	26.00	-4.77	51708.330	2.0	54879.720	2.0
3152.3724	26.00	-4.47	48122.913	3.0	51294.262	3.0
3152.4262	7.00	-2.53	111060.905	.5	114232.200	1.5
3152.5205	8.03	-1.42	593627.000	1.5	596798.200	1.5
3152.5563	14.00	-2.29	60848.946	4.0	64020.110	4.0
3152.7194	8.03	-.99	593273.000	2.5	596444.000	2.5
3153.1370	21.00	-4.00	33763.570	1.5	36934.150	1.5
3153.2623	14.00	-3.44	60848.946	4.0	64019.400	3.0
3153.7438	22.00	-4.38	38544.380	3.0	41714,350	2.0
3153.8314	14.00	-2.41	59056.508	1.0	62226.390	1.0
3153.9139	22.00	-4.20	18911.399	2.0	22081.198	2.0
3154.4105	18.01	-1.99	201781.790	2.5	204951.090	3.5
3154.4105	13.01	-.09	106918.200	1.0	110087.500	2.0
3154.4503	18.01	-1.35	199981.940	1.5	203151.200	2.5
3154.5200	9.00	-1.47	130489.930	.5	133659.120	.5
3154.6693	25.00	-3.13	59257.440	4.5	62426.480	3.5
3154.8186	9.02	-3.95	441406.460	3.5	444575.350	2.5
3154.8485	23.00	-4.49	19145.130	5.5	22313.990	5.5
3154.9481	27.00	-4.97	43921.890	2.5	47090.650	2.5
3155.4559	26.02	-3.10	219566.080	3.0	222734.330	4.0
3155.5057	15.00	-3.89	78132.600	.5	81300.800	1.5
3155.8045	13.01	-1.39	144964.700	4.0	148132.600	3.0
3155.8045	13.01	-2.16	144964.700	4.0	148132.600	3.0
3155.8045	13.01	-3.18	144964.700	3.0	148132.600	3.0
3156.0835	28.01	-4.35	115081.360	4.5	118248.980	5.5
3156.1801	26.00	-4.75	47812.104	4.0	50979.627	4.0
3156.4024	15.00	-3.10	78133.500	2.5	81300.800	1.5
3156.4762	7.00	-2.02	107182.788	1.5	110350.014	.5
3156.7512	29.01	-3.43	135952.550	2.0	139119.500	3.0
3157.1300	17.00	-1.87	91660.580	2.5	94827.150	2.5
3157.2417	17.00	-3.83	94314.206	1.5	97480.664	1.5
3157.7513	17.00	-3.09	98693.013	3.5	101858.960	2.5
3157.7692	17.00	-2.20	97004.081	1.5	100170.010	2.5
3157.9179	6.00	-2.15	83947.430	3.0	87113.210	2.0
3157.9578	17.00	-4.41	98693.220	2.5	101858.960	2.5
3158.2271	6.00	-1.34	83747.390	2.0	86912.860	1.0
3158.5764	6.00	-3.79	83791.040	2.0	86956.160	1.0
3158.7959	6.00	-2.55	86185.200	2.0	89350.100	2.0
3158.8029	28.00	-.54	49032.589	2.0	52197.482	3.0
3158.8159	18.00	-3.19	119444.880	2.0	122609.760	1.0
3159.1353	23.00	-4.56	39341.760	3.5	42506.320	4.5
3159.2651	19.00	-.35	21537.000	1.5	24701.430	.5
3159.3849	23.00	-3.83	36989.200	2.5	40153.510	2.5
3159.5147	6.00	-2.63	83838.080	2.0	87002.260	3.0
3159.5946	7.00	-4.84	112826.900	3.5	115991.000	2.5
3159.7554	7.00	-4.11	111853.061	1.5	115017.000	.5
3159.7554	7.00	-2.54	111853.061	1.5	115017.000	1.5
3159.8442	9.00	-2.65	130059.400	.5	133223.250	.5
3160.1938	15.00	-4.04	72741.600	1.5	75905.100	2.5
3160.4986	7.00	-3.84	112319.805	1.5	115483.000	2.5
3161.0632	25.00	-2.59	59470.140	3.5	62632.770	3.5
3161.0932	23.00	-3.74	39391.020	4.5	42553.620	4.5
3161.2031	24.00	-2.45	40930.310	1.0	44092.800	0.0
3161.3240	17.00	.11	92151.380	.5	95313.749	1.5
3161.4820	28.00	-2.80	44262.619	2.0	47424.830	1.0
3161.5330	24.00	-4.34	31028.330	2.0	34190.490	2.0
3161.7029	12.01	0.00	105622.340	.5	108784.330	.5
3161.9930	30.02	-3.24	296921.300	3.0	300083.000	3.0
3162.0130	14.00	-3.51	60856.630	1.0	64018.310	1.0
3162.5932	8.01	.06	257797.900	1.5	260959.000	1.5
3163.0144	14.00	-2.35	58775.451	2.0	61936.130	1.0
3163.2436	6.00	-2.57	83752.410	1.0	86912.860	1.0
3163.4938	8.03	-1.72	593406.000	1.5	596566.200	.5
3163.4988	7.00	-4.79	112319.805	1.5	115480.000	1.5
3163.6840	24.00	-1.84	37883.340	2.0	41043.350	3.0
3163.7441	55.00	-.50	22631.830	0.0	25792.642	0.0
3164.4451	14.00	-1.25	60704.530	3.0	63863.780	2.0
3164.8378	14.00	-2.47	59191.072	2.0	62349.930	2.0
3164.9060	6.00	-3.86	85399.810	2.0	88558.600	1.0
3165.0863	24.00	-2.09	40930.310	1.0	44088.920	1.0
3165.5754	10.00	-3.96	166656.508	1.0	169814.630	2.0
3165.6976	13.01	-1.17	144939.100	1.0	148097.100	0.0
3166.1328	26.00	-3.17	44676.963	4.0	47834.529	5.0
3166.2792	28.01	-4.32	130815.910	3.5	133973.330	2.5
3166.2993	15.01	.07	127756.300	2.0	130913.700	3.0
3166.4777	14.00	-1.80	60706.558	1.0	63863.780	2.0
3166.6503	28.01	-4.92	118923.200	3.5	122080.250	2.5
3166.9773	12.00	-1.38	58023.246	2.0	61179.970	2.0
3166.9773	12.00	-1.09	58023.246	2.0	61179.970	3.0
3166.9773	12.00	-.49	58023.246	2.0	61179.970	3.0
3166.9813	28.01	.28	119656.250	3.5	122812.970	3.5
3167.2923	18.00	-.85	119444.880	2.0	122601.290	1.0
3167.7038	30.02	-4.02	296852.700	1.0	300008.700	1.0
3167.8243	22.00	-3.29	25635.740	1.0	28791.620	1.0
3167.8474	7.00	-.21	103622.480	.5	106778.337	1.5
3168.6074	30.02	-4.35	296953.000	2.0	300108.100	3.0
3168.9087	30.02	-4.61	296921.300	3.0	300076.100	2.0
3169.0996	12.01	.30	105629.720	1.5	108784.330	.5
3169.2101	22.00	-2.52	25797.600	3.0	28952.100	4.0
3169.2704	9.02	-.66	441315.800	.5	444470.240	1.5
3169.2895	14.00	.13	54313.818	1.0	57468.239	2.0
3169.6120	13.01	-.50	146414.500	4.0	149568.600	3.0
3169.6120	13.01	-1.44	146414.500	4.0	149568.600	3.0
3169.6120	13.01	-2.21	146414.500	3.0	149568.600	3.0
3169.8432	25.00	-4.24	59360.720	2.5	62514.590	2.5
3169.8894	14.00	-2.38	61198.036	0.0	64351.860	1.0
3170.1145	28.01	-4.02	101144.630	3.5	104298.230	4.5
3170.2854	6.00	-1.68	83848.830	3.0	87002.260	3.0
3170.4865	28.01	-3.33	116512.060	3.5	119665.290	2.5
3170.6977	25.00	-3.21	59600.350	2.5	62753.370	2.5
3170.7379	18.00	-4.31	122329.720	3.0	125482.700	3.0
3170.7379	18.00	-4.52	122329.720	3.0	125482.700	4.0
3171.5044	22.00	-4.15	38764.832	3.0	41917.050	4.0
3171.7539	25.00	-3.97	59480.800	2.5	62632.770	3.5
3171.7741	29.01	-3.36	135990.150	3.0	139142.100	2.0
3171.8334	7.00	-3.27	111905.609	2.5	115057.500	1.5
3171.9251	13.01	.09	143262.700	2.0	146414.500	3.0
3171.9350	18.00	-2.76	119566.110	3.0	122717.900	3.0
3171.9350	18.00	.09	119566.110	3.0	122717.900	4.0
3172.1162	27.00	-4.84	43555.220	3.5	46706.830	3.5
3172.7917	7.00	-2.24	111853.061	1.5	115004.000	2.5
3172.8310	13.01	-1.94	144939.100	1.0	148090.000	1.0
3172.8310	13.01	-1.47	144939.100	1.0	148090.000	2.0
3173.1432	24.00	-2.19	40930.310	1.0	44080.900	2.0
3173.6227	7.00	-.47	107253.106	2.5	110403.220	3.5
3173.6368	25.00	-4.53	56189.450	4.5	59339.550	3.5
3173.7275	21.00	-4.23	34567.100	3.5	37717.110	3.5
3173.8383	13.01	-1.35	142958.900	1.0	146108.800	1.0
3174.2111	10.00	-4.38	169839.450	1.0	172988.980	1.0
3174.3422	29.01	-1.61	135733.600	3.0	138883.000	4.0
3174.4934	6.00	-2.28	85399.810	2.0	88549.060	1.0
3174.5538	29.01	-2.61	141733.900	2.0	144883.090	2.0
3174.8774	14.00	-2.55	60645.441	2.0	63794.310	2.0
3174.8865	17.00	-4.00	97739.320	1.5	100888.180	2.5
3174.9067	27.00	-2.08	45876.580	2.5	49025.420	1.5
3175.1084	14.00	-4.86	60621.640	0.0	63770.280	1.0
3175.4008	24.00	-4.71	30787.300	1.0	33935.650	2.0
3175.4271	7.00	-1.28	106778.337	1.5	109926.661	2.5
3175.5017	7.00	-.30	107253.106	2.5	110401.356	2.5
3175.6580	7.00	-1.30	111060.905	.5	114209.000	.5
3175.6742	14.00	-2.95	60645.441	2.0	63793.520	1.0
3175.7640	22.00	-3.93	38670.710	4.0	41818.700	4.0
3175.7741	10.01	-3.65	277325.600	1.5	280473.580	1.5
3176.0767	28.01	.39	119665.290	2.5	122812.970	3.5
3176.1272	10.00	-3.76	169839.450	1.0	172987.080	2.0
3176.4309	7.00	.29	103667.130	1.5	106814.459	2.5
3176.6621	15.00	-3.52	76192.300	1.5	79339.400	1.5
3177.6112	6.00	.07	80801.270	2.0	83947.430	3.0
3177.6112	17.00	.36	91680.990	1.5	94827.150	2.5
3177.6516	16.00	-1.58	78690.680	2.0	81836.800	2.0
3177.6516	16.00	-.68	78690.680	2.0	81836.800	3.0
3177.7324	10.01	-4.88	276276.850	1.5	279422.890	.5
3178.1163	16.00	-3.12	78691.140	3.0	81836.800	2.0
3178.1163	16.00	-1.58	78691.140	3.0	81836.800	3.0
3178.1163	16.00	-.52	78691.140	3.0	81836.800	4.0
3178.1567	9.02	-.74	441406.460	3.5	444552.080	3.5
3178.1971	26.02	-3.82	198773.950	5.0	201919.530	4.0
3178.2557	20.00	-1.13	45425.358	1.0	48570.880	2.0
3178.3669	14.00	-1.85	60496.358	2.0	63641.770	3.0
3178.4598	6.00	-2.76	83820.130	1.0	86965.450	2.0
3178.6922	6.00	-2.23	85399.810	2.0	88544.900	3.0
3178.8641	6.00	-2.25	78199.070	2.0	81343.990	2.0
3178.8742	16.00	-.85	78691.890	1.0	81836.800	2.0
3179.0460	24.00	-3.25	52064.270	4.0	55209.010	4.0
3179.0865	13.01	-1.33	143269.800	3.0	146414.500	3.0
3179.0865	13.01	-2.06	143269.800	3.0	146414.500	4.0
3179.0865	13.01	.14	143269.800	3.0	146414.500	4.0
3179.6021	28.01	-3.38	116512.060	3.5	119656.250	3.5
3179.7568	17.00	-2.24	94663.670	1.5	97807.707	2.5
3179.8560	22.00	-3.35	31184.021	1.0	34327.960	1.0
3180.2748	14.00	-.60	54185.264	1.0	57328.789	1.0
3180.3375	22.00	-4.52	39715.437	3.0	42858.900	3.0
3180.3375	10.00	-4.73	169843.820	2.0	172987.283	3.0
3180.4174	10.00	-4.58	169843.820	2.0	172987.204	2.0
3180.6269	18.00	-3.98	120229.810	3.0	123372.987	2.0
3180.7230	26.00	-3.47	47555.584	1.0	50698.666	2.0
3180.8900	18.00	-2.71	120230.070	2.0	123372.987	2.0
3181.4569	7.00	-1.23	107253.106	2.5	110395.463	1.5
3181.7475	18.00	-2.30	119566.110	3.0	122708.180	2.0
3181.8265	18.00	-2.40	121932.908	1.0	125074.900	2.0
3181.9135	26.00	-4.37	45333.834	2.0	48475.740	3.0
3181.9905	18.00	-.60	119566.110	3.0	122707.940	3.0
3182.0037	10.00	-3.96	166606.333	0.0	169748.150	1.0
3182.1121	10.01	-1.25	303928.100	.5	307069.810	1.5
3182.2336	6.00	-3.04	85399.810	2.0	88541.400	2.0
3182.2832	26.00	-4.00	53281.735	5.0	56423.276	4.0
3182.3248	28.01	-4.77	118314.820	2.5	121456.320	1.5
3182.4058	18.01	-2.03	185624.730	3.5	188766.150	2.5
3183.0340	29.01	-2.11	138593.100	1.0	141733.900	2.0
3183.1394	17.00	-3.42	91173.510	1.5	94314.206	1.5
3183.9129	7.00	-.53	107182.788	1.5	110322.721	1.5
3184.1573	18.00	-2.76	121932.908	1.0	125072.600	1.0
3184.3622	25.00	-3.69	59339.550	3.5	62479.040	4.5
3184.7579	17.01	-2.68	158768.600	2.0	161907.700	2.0
3184.8897	25.00	-3.01	57621.900	1.5	60760.870	1.5
3185.1272	17.00	.37	91343.500	2.5	94482.236	2.5
3185.2946	20.00	-1.24	45050.419	2.0	48188.990	3.0
3185.6214	28.00	-4.91	47208.228	1.0	50346.477	2.0
3185.7910	14.00	-1.09	60706.558	1.0	63844.640	0.0
3185.9026	20.00	-1.32	45049.073	1.0	48187.045	2.0
3185.9757	9.00	-1.90	129607.070	.5	132744.970	1.5
3185.9970	10.00	-1.54	159379.993	0.0	162517.872	1.0
3186.5241	28.01	-4.59	133190.190	1.5	136327.550	1.5
3186.5556	22.00	-2.67	31190.631	2.0	34327.960	1.0
3186.6866	15.00	-2.91	72884.400	2.5	76021.600	1.5
3186.7679	22.00	-2.80	25635.740	1.0	28772.860	0.0
3186.7780	19.00	-2.14	30274.280	.5	33411.390	1.5
3186.8085	28.01	-2.76	101366.140	2.5	104503.220	2.5
3186.9822	14.00	-1.06	56780.427	1.0	59917.336	2.0
3187.1946	27.00	-4.13	41968.890	2.5	45105.590	3.5
3187.2393	20.00	-1.57	45050.419	2.0	48187.075	3.0
3187.2698	20.00	-2.45	45050.419	2.0	48187.045	2.0
3187.4994	15.01	.24	127889.300	3.0	131025.700	4.0
3187.6224	26.00	-4.94	48531.896	3.0	51668.175	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3187.6509	7.00	-.21	103622.480	.5	106758.731	.5
3187.6519	25.00	-2.99	59290.230	3.5	62426.480	3.5
3187.8755	6.00	-2.76	83820.130	1.0	86956.160	1.0
3187.9569	19.00	-2.44	30274.280	.5	33410.230	.5
3188.0687	28.01	-3.09	114836.630	3.5	117972.470	3.5
3188.2822	23.00	-3.32	36983.630	1.5	40119.260	2.5
3188.4449	21.00	-3.59	33798.680	2.5	36934.150	1.5
3188.5364	28.01	-3.28	98122.630	.5	101258.010	1.5
3188.7795	26.00	-4.84	44676.963	4.0	47812.104	4.0
3188.9636	28.01	-3.47	115739.150	4.5	118874.110	3.5
3188.9849	7.00	-4.41	111853.061	1.5	114988.000	.5
3188.9849	7.00	-2.77	111853.061	1.5	114988.000	1.5
3188.9849	7.00	-2.45	111853.061	1.5	114988.000	2.5
3189.1060	12.01	-.45	109062.340	2.5	112197.160	1.5
3189.1833	20.00	-.99	45052.374	3.0	48187.118	4.0
3189.2077	12.01	-.29	109062.340	3.5	112197.060	2.5
3189.2077	12.01	-1.60	109062.340	2.5	112197.060	2.5
3189.2270	20.00	-2.06	45052.374	3.0	48187.075	3.0
3189.2575	20.00	-3.60	45052.374	3.0	48187.045	2.0
3189.6951	26.00	-2.85	44243.668	5.0	47377.909	4.0
3189.8997	14.00	-1.35	60856.630	1.0	63990.670	2.0
3189.9658	10.00	-4.16	168355.510	1.0	171489.485	1.0
3190.0218	9.00	-2.06	130489.930	.5	133623.850	1.5
3190.0422	13.01	-1.21	143280.600	4.0	146414.500	4.0
3190.0422	13.01	-1.35	143200.600	4.0	146414.500	4.0
3190.0422	13.01	.32	143780.600	4.0	146414.500	5.0
3190.0422	13.01	-2.77	143280.600	4.0	146414.500	3.0
3190.1338	18.00	-4.17	121654.580	2.0	124788.390	1.0
3190.6083	26.00	-4.89	47834.529	5.0	50967.873	6.0
3190.7702	7.00	.58	103735.450	2.5	106868.635	3.5
3191.0095	28.01	-4.53	118914.340	4.5	122047.290	3.5
3191.7532	27.00	-3.50	43242.950	2.5	46375.170	1.5
3191.8806	7.00	-1.05	111060.905	.5	114193.000	1.5
3192.0793	30.02	-4.17	296921.300	3.0	300053.200	2.0
3192.1853	22.00	-2.58	37538.804	2.0	40670.600	2.0
3192.2628	9.01	-2.82	236960.830	1.0	240092.550	2.0
3192.6380	26.00	-3.39	48238.832	2.0	51370.184	2.0
3193.1448	10.00	-4.23	168358.630	1.0	171489.485	1.0
3193.1652	26.00	-3.52	48163.427	2.0	51294.262	3.0
3193.5171	21.00	-4.92	34422.850	1.5	37553.340	2.5
3193.8537	25.00	-4.88	47774.520	3.5	50904.680	2.5
3193.9558	23.00	-3.96	36989.200	2.5	40119.260	2.5
3194.0170	30.02	-4.21	296953.000	2.0	300083.000	3.0
3194.0170	27.00	-3.56	44394.470	3.5	47524.470	4.5
3194.4354	18.00	-.60	119566.110	3.0	122695.700	4.0
3194.6294	17.01	-3.30	143996.300	4.0	147125.700	3.0
3194.6804	29.01	-3.55	135990.150	3.0	139119.500	3.0
3194.7417	10.01	-4.83	277344.290	2.5	280473.580	1.5
3194.8693	14.00	-2.38	60815.925	2.0	63945.090	3.0
3195.1501	26.02	-2.96	199300.150	2.0	202429.040	1.0
3195.2931	14.00	-.66	60621.640	0.0	63750.390	1.0
3195.4871	22.00	-2.84	25699.950	2.0	28828.510	2.0
3195.5688	6.00	-1.14	78215.510	3.0	81343.990	2.0
3195.6444	26.00	-4.15	48475.740	3.0	51604.146	3.0
3195.6506	29.01	-1.99	117747.450	3.0	120875.850	2.0
3195.9172	14.00	-3.04	60645.441	2.0	63773.580	2.0
3196.2135	14.00	-1.74	60645.441	2.0	63773.290	3.0
3196.2227	29.01	-3.51	136014.260	2.0	139142.100	2.0
3196.7031	6.00	-2.10	83838.080	2.0	86965.450	2.0
3197.1918	18.00	-3.09	121932.908	1.0	125059.800	2.0
3197.2858	19.02	-2.39	237912.200	1.5	241039.000	1.5
3197.3983	6.00	-1.75	78199.070	2.0	81325.760	1.0
3197.5384	28.00	-2.92	51124.800	3.0	54251.353	3.0
3198.6454	18.00	-.14	121011.979	1.0	124137.450	2.0
3198.7773	7.00	-2.27	111165.158	1.5	114290.500	2.5
3198.9534	17.00	-1.51	91538.500	1.5	94663.670	1.5
3199.5472	25.00	-4.79	56356.210	3.5	59480.800	2.5
3199.7316	24.00	-4.52	36034.220	3.0	39158.630	4.0
3199.8800	14.00	-2.43	60962.105	2.0	64086.370	1.0
3200.0890	14.00	-2.41	57372.297	2.0	60496.358	2.0
3200.4599	14.00	.15	54205.090	2.0	57328.789	1.0
3200.6228	27.00	-4.40	49847.080	2.5	52970.620	2.5
3200.6228	22.00	-3.93	41457.620	3.0	44581.160	2.0
3200.6842	9.00	-1.70	130489.930	.5	133613.410	.5
3200.7662	27.00	-4.51	50578.730	3.5	53702.130	3.5
3200.8134	7.00	-1.72	106980.480	.5	110103.834	1.5
3201.0737	30.02	-3.70	296953.000	2.0	300076.100	2.0
3201.3432	18.00	-2.43	120250.150	3.0	123372.987	2.0
3201.4325	21.00	-1.42	33154.010	2.5	36276.760	1.5
3201.4837	27.00	-4.66	51160.030	2.5	54282.730	2.5
3201.9452	25.00	-.03	47782.430	1.5	50904.680	2.5
3201.9780	26.00	-2.92	51148.892	2.0	54271.110	1.0
3202.0375	23.00	-4.25	20812.990	1.5	23935.150	2.5
3202.3780	14.00	-2.16	59034.988	3.0	62156.816	2.0
3202.3862	6.00	-4.78	83791.040	2.0	86912.860	1.0
3202.7145	25.00	-3.75	59784.310	3.5	62905.810	2.5
3202.7657	6.00	-3.56	77679.820	2.0	80801.270	2.0
3202.8787	26.02	-3.56	219655.550	2.0	222776.890	1.0
3202.9197	17.01	-3.42	158786.400	3.0	161907.700	2.0
3203.0839	27.00	-4.91	45957.290	.5	49078.430	1.5
3203.3579	14.00	-.74	57583.657	4.0	60704.530	3.0
3203.9564	18.00	-1.85	119566.110	3.0	122686.400	2.0
3203.9975	55.00	-.63	22588.890	0.0	25709.991	0.0
3204.3569	13.01	-4.21	139242.900	3.0	142362.800	2.0
3204.5316	22.00	-4.82	34535.040	2.0	37654.770	2.0
3204.7072	17.00	-1.51	92194.190	1.5	95313.749	1.5
3204.9219	24.00	-4.17	30787.300	1.0	33906.650	1.0
3205.1018	26.00	-4.33	48231.330	5.0	51350.505	4.0
3205.6105	28.01	-3.92	133169.920	3.5	136288.600	2.5
3205.6207	26.02	-2.86	219655.550	2.0	222774.220	2.0
3205.8058	26.02	-4.78	198773.950	5.0	201892.440	5.0
3206.2273	6.00	-2.53	83838.080	2.0	86956.160	1.0
3206.5121	10.00	-3.32	168355.510	1.0	171473.313	2.0
3206.6901	24.00	-3.91	40971.290	2.0	44088.920	1.0
3206.7210	26.00	-4.45	51762.120	2.0	54879.720	2.0
3206.9576	29.01	-3.94	135863.930	1.0	138981.300	2.0
3207.1191	17.00	-1.37	96594.096	.5	99711.309	.5
3207.1469	7.00	.34	107182.788	1.5	110299.974	2.5
3207.3382	27.00	-2.74	48443.760	2.5	51560.760	2.5
3207.5862	14.00	-2.74	60645.441	2.0	63762.200	3.0
3207.7293	6.00	-2.45	83848.830	3.0	86965.450	2.0
3208.9515	7.00	-2.60	111143.567	.5	114259.000	1.5
3209.2327	6.00	-2.92	84103.100	2.0	87218.260	2.0
3209.4000	5.02	-.37	192956.000	0.0	196071.847	0.0
3209.5974	14.00	-1.44	57372.297	2.0	60487.103	1.0
3209.7242	10.00	-4.82	168358.630	1.0	171473.313	2.0
3209.9797	26.00	-3.85	47420.000	2.0	50534.435	3.0
3210.4694	14.00	-2.03	59118.030	3.0	62231.990	2.0
3210.5003	25.00	-3.96	56356.210	3.5	59470.140	3.5
3210.5911	26.00	-4.27	47590.070	4.0	50703.912	5.0
3210.9025	27.00	-3.06	42811.440	3.5	45924.980	3.5
3211.0469	13.01	-1.76	144939.100	1.0	148052.500	1.0
3211.3460	7.00	-4.83	112877.890	3.5	115991.000	2.5
3211.6451	6.00	-.74	80834.610	3.0	83947.430	3.0
3212.1446	28.00	-3.68	51124.800	3.0	54237.136	4.0
3212.2829	7.00	-.32	106814.459	2.5	109926.661	2.5
3212.3779	28.01	-4.46	130331.780	1.5	133443.890	2.5
3212.5823	28.00	-1.77	47424.830	1.0	50536.742	1.0
3212.7702	27.00	-1.86	45105.590	3.5	48217.320	3.5
3212.8424	15.00	-2.90	66813.040	1.5	69924.700	2.5
3212.9044	27.00	-2.28	43263.570	1.5	46375.170	1.5
3213.1202	7.00	-4.70	111905.609	2.5	115017.000	1.5
3213.3102	7.00	-0.00	103667.130	1.5	106778.337	1.5
3213.6893	9.00	.03	129484.660	1.5	132595.500	2.5
3213.7874	10.00	-4.82	168378.740	2.0	171489.485	1.0
3213.9197	14.00	-.08	54185.264	1.0	57295.881	0.0
3214.0509	26.02	-2.89	219655.550	2.0	222766.040	3.0
3214.0820	13.00	-4.18	43831.090	2.5	46941.550	2.5
3214.0861	13.00	-2.88	43831.094	3.5	46941.550	2.5
3214.1140	17.00	-2.73	98693.013	3.5	101803.442	2.5
3214.1233	6.00	-4.25	86411.980	3.0	89522.400	2.0
3214.1956	6.00	-4.87	86412.050	2.0	89522.400	2.0
3214.3279	17.00	-4.03	98693.220	2.5	101803.442	2.5
3214.6814	13.00	-3.03	43831.090	2.5	46940.970	1.5
3214.7331	18.02	-4.17	242923.960	1.0	246033.790	2.0
3214.8633	26.00	-4.13	50698.666	2.0	53808.370	1.0
3214.9087	14.00	-3.70	59032.140	2.0	62141.800	1.0
3214.9605	24.00	-4.15	40971.290	2.0	44080.900	2.0
3215.0122	25.00	-4.64	56490.790	2.5	59600.350	2.5
3215.0587	12.00	-1.58	57017.724	1.0	60127.239	2.0
3215.2232	7.00	.48	107253.106	2.5	110362.462	3.5
3215.7154	28.01	-4.85	116893.980	2.5	120002.860	3.5
3215.7547	7.00	-1.77	111165.158	1.5	114274.000	2.5
3215.7568	10.00	-3.78	169748.150	1.0	172856.990	1.0
3215.7981	29.01	-2.29	135484.300	0.0	138593.100	1.0
3215.8395	28.01	-3.70	105439.850	1.5	108548.610	1.5
3215.8499	27.00	-4.77	50593.380	4.5	53702.130	3.5
3216.4044	12.00	-2.06	57019.025	2.0	60127.239	2.0
3216.7190	6.00	-4.31	86414.490	3.0	89522.400	2.0
3216.7294	26.00	-2.09	51016.720	5.0	54124.620	4.0
3216.8308	7.00	-2.21	106996.032	1.5	110103.834	1.5
3217.0545	10.00	-1.77	167449.464	1.0	170557.050	1.0
3217.5058	6.00	-4.78	86411.980	3.0	89519.130	3.0
3217.9802	18.00	-1.84	121932.908	1.0	125039.600	1.0
3218.2205	29.01	-3.59	136035.640	3.0	139142.100	2.0
3218.2826	8.03	-.93	593406.000	1.5	596512.400	1.5
3218.5314	19.00	-1.85	30185.240	2.5	33291.400	2.5
3218.5314	19.00	-.55	30185.240	2.5	33291.400	3.5
3218.7489	24.00	-2.68	40982.970	2.0	44088.920	1.0
3218.9044	18.02	-4.07	242923.960	1.0	246029.760	1.0
3219.0495	19.00	-.70	30185.740	1.5	33291.400	2.5
3219.0578	14.00	-1.92	60381.278	1.0	63486.930	1.0
3219.4849	29.01	-4.87	136014.260	2.0	139119.500	3.0
3219.7649	28.01	-3.60	115209.850	3.5	118314.820	2.5
3219.9930	28.01	-3.54	113407.310	2.5	116512.060	3.5
3220.1071	6.00	-4.58	86414.490	3.0	89519.130	3.0
3220.2523	15.01	-.95	127889.300	3.0	130993.800	3.0
3220.3146	6.00	-2.91	86414.690	4.0	89519.130	3.0
3220.3457	23.00	-4.28	39300.480	2.5	42404.890	3.5
3220.3561	13.01	-.91	143170.000	1.0	146274.400	2.0
3220.7917	10.00	-4.05	169748.150	1.0	172852.130	0.0
3220.9433	17.00	.18	92602.700	.5	95706.534	1.5
3221.2660	14.00	-2.55	57541.918	1.0	60645.441	2.0
3221.2692	9.02	-.65	441385.880	1.5	444489.400	2.5
3221.2723	7.00	-.08	107182.788	1.5	110286.305	2.5
3221.3626	24.00	-4.04	35807.900	2.0	38911.330	3.0
3221.9647	28.01	-2.35	113172.960	4.5	116275.810	3.5
3221.9824	14.00	-2.60	57198.027	3.0	60300.860	2.0
3222.0893	26.02	-4.41	219655.550	2.0	222758.280	2.0
3222.0945	26.00	-3.24	47420.215	5.0	50522.940	6.0
3222.1309	6.00	-3.20	77679.820	2.0	80782.510	1.0
3222.6221	18.00	-2.20	115366.900	1.0	118469.117	2.0
3222.6710	6.00	-2.82	84116.090	1.0	87218.260	2.0
3222.7022	26.00	-2.73	45061.287	3.0	48163.427	2.0
3222.7489	7.00	-1.43	111060.905	.5	114163.000	1.5
3223.7933	26.02	-2.72	199327.950	1.0	202429.040	1.0
3223.8037	27.00	-4.63	46746.000	2.5	49847.080	2.5
3224.4068	15.00	-3.14	76021.600	1.5	79122.100	1.5
3224.7188	30.02	-4.40	296953.000	2.0	300053.200	2.0
3224.7292	23.00	-3.92	37025.600	3.5	40125.790	3.5
3224.7542	18.00	-.73	116660.054	1.0	119760.220	1.0
3224.8748	29.01	-4.73	133594.050	3.0	136694.100	4.0
3225.0309	28.01	-3.61	115827.120	3.5	118927.020	4.5
3225.1485	26.00	-4.07	48361.920	4.0	51461.707	4.0
3225.3118	24.00	-1.90	37883.340	2.0	40982.970	2.0
3225.4440	14.00	-3.48	61562.477	3.0	64661.980	3.0
3225.5824	17.00	-3.37	91564.300	.5	94663.670	1.5
3225.6073	14.00	-1.43	61574.814	3.0	64674.160	4.0
3225.6760	9.00	-1.33	126282.580	1.5	129381.860	2.5
3225.8687	7.00	-1.51	111060.905	.5	114160.000	1.5
3226.0924	24.00	-4.15	33113.270	4.0	36212.150	4.0
3226.1653	6.00	-2.98	85399.810	2.0	88498.620	2.0
3226.2174	28.01	-3.73	112686.300	2.5	115785.060	1.5
3226.5402	6.00	-3.90	86411.980	3.0	89510.430	2.0
3226.5505	25.00	-3.20	59416.150	1.5	62514.590	2.5
3226.5818	28.01	-4.46	133190.190	1.5	136288.600	2.5
3226.6016	7.00	-3.70	111905.609	2.5	115004.000	2.5
3226.6016	7.00	-2.35	111905.609	2.5	115004.000	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3226.6131	6.00	-4.48	86412.050	2.0	89510.430	2.0
3226.6963	15.00	-2.39	72386.100	2.5	75484.400	2.5
3226.8005	28.01	-4.09	113177.610	3.5	116275.810	3.5
3226.9797	14.00	-3.45	61563.952	4.0	64661.980	3.0
3227.0817	24.00	-2.09	40982.970	2.0	44080.900	2.0
3227.1963	26.00	-3.46	47606.092	5.0	50703.912	5.0
3227.2286	7.00	-1.06	106758.731	.5	109856.520	1.5
3227.4255	24.00	-2.62	35813.730	3.0	38911.330	3.0
3227.4359	28.01	-3.75	114874.880	2.5	117972.470	3.5
3227.6027	24.00	-4.91	40971.290	2.0	44068.720	3.0
3227.8319	18.01	-1.34	186340.480	1.5	189437.690	.5
3227.9288	14.00	-2.31	60487.103	1.0	63584.220	1.0
3228.1143	7.00	-1.86	111853.061	1.5	114950.000	.5
3228.1143	7.00	-2.69	111853.061	1.5	114950.000	1.5
3228.6659	6.00	-4.53	86414.490	3.0	89510.900	3.0
3228.8744	6.00	-3.55	86414.690	4.0	89510.900	3.0
3228.9412	26.00	-3.11	48122.913	3.0	51219.059	3.0
3229.0100	28.01	-3.56	115827.120	3.5	118923.200	3.5
3229.0559	28.00	-2.15	44112.192	1.0	47208.228	1.0
3229.2708	25.00	-4.75	45130.160	4.5	48225.990	3.5
3229.3020	8.01	-.43	258601.700	1.5	261697.500	1.5
3229.5941	10.01	-.61	303974.290	1.5	307069.810	1.5
3229.6964	18.00	-2.62	108722.668	0.0	111818.090	1.0
3230.1890	8.01	-4.57	253048.350	2.5	256143.300	3.5
3230.3455	6.00	-1.32	80782.510	1.0	83877.310	1.0
3230.4196	12.00	-1.66	56308.381	2.0	59403.110	1.0
3230.4708	26.02	-3.12	219655.550	2.0	222750.230	3.0
3230.5825	10.00	-3.96	168378.740	2.0	171473.313	2.0
3231.3458	7.00	-1.92	111165.158	1.5	114259.000	1.5
3231.3510	14.00	-4.20	61304.283	2.0	64398.120	2.0
3231.4941	28.01	-4.76	52205.950	3.5	55299.650	4.5
3231.5359	23.00	-3.65	37025.600	3.5	40119.260	2.5
3232.0165	8.03	-1.03	593473.000	.5	596566.200	.5
3232.0687	29.01	-1.98	133826.200	2.0	136919.350	3.0
3232.1522	14.00	-2.89	61305.050	3.0	64398.120	2.0
3232.4742	18.00	-1.07	115366.900	1.0	118459.662	1.0
3232.5076	6.00	-2.52	83820.130	1.0	86912.860	1.0
3232.7480	7.00	-4.76	112880.500	2.5	115973.000	1.5
3232.8713	12.00	-1.47	56308.381	2.0	59400.763	2.0
3232.8713	12.00	-1.13	56308.381	2.0	59400.763	3.0
3232.8713	12.00	-.60	56308.381	2.0	59400.763	3.0
3232.9184	14.00	-2.46	60487.103	1.0	63579.440	0.0
3233.1976	21.00	-4.83	30706.610	1.5	33798.680	2.5
3233.6159	22.00	-2.57	25699.950	2.0	28791.620	1.0
3233.6452	10.00	-4.25	166656.508	1.0	169748.150	1.0
3233.6880	7.00	-.81	103667.130	1.5	106758.731	.5
3233.7289	17.00	-4.38	84988.480	1.5	88080.042	2.5
3233.8732	26.00	-2.42	44664.061	2.0	47755.485	3.0
3234.2122	13.01	-.27	145126.500	2.0	148217.600	3.0
3235.1541	8.03	-2.38	593708.000	2.5	596798.200	1.5
3235.1541	15.00	-2.46	66834.500	1.5	69924.700	2.5
3235.1541	15.00	-2.19	76425.200	2.5	79515.400	3.5
3235.4044	14.00	-1.41	59506.359	2.0	62596.320	2.0
3236.2538	29.01	-4.24	133984.600	3.0	137073.750	2.0
3236.3103	14.00	-4.54	61574.814	3.0	64663.910	4.0
3236.5722	14.00	-2.90	60705.464	3.0	63794.310	2.0
3236.7253	13.01	-1.69	145128.900	3.0	148217.600	3.0
3236.7253	13.01	-2.71	145128.900	3.0	148217.600	4.0
3236.7253	13.01	-.20	145128.900	3.0	148217.600	4.0
3236.7955	7.00	-4.41	111143.567	.5	114232.200	1.5
3237.3122	6.00	-4.33	83877.310	1.0	86965.450	2.0
3237.6037	14.00	-1.97	60496.358	2.0	63584.220	1.0
3237.6781	17.00	-2.53	96594.096	.5	99681.887	1.5
3237.9486	22.00	-3.17	34535.040	2.0	37622.573	3.0
3238.0147	9.00	-2.79	130489.930	.5	133577.400	1.5
3238.2769	28.01	-4.77	115827.120	3.5	118914.340	4.5
3238.4416	10.00	-4.56	167795.897	3.0	170882.960	3.0
3238.4416	10.00	-3.14	167795.897	3.0	170882.960	4.0
3238.5811	25.00	-3.61	59339.550	3.5	62426.480	3.5
3238.5895	12.00	-2.26	57017.078	0.0	60104.000	1.0
3238.7595	22.00	-4.85	38670.710	4.0	41757.470	3.0
3238.9589	28.00	-2.01	49185.146	2.0	52271.716	2.0
3239.0492	7.00	-2.62	111204.016	2.5	114290.500	2.5
3239.2674	12.00	-1.78	57017.724	1.0	60104.000	1.0
3239.5403	10.00	-3.27	167796.944	2.0	170882.960	3.0
3239.8196	24.00	-1.87	40982.970	2.0	44068.720	3.0
3239.8804	10.00	-3.93	167794.968	2.0	170880.660	2.0
3239.8804	10.00	-2.78	167794.968	2.0	170880.660	3.0
3239.9876	21.00	-3.67	18000.250	2.5	21085.840	3.5
3240.0086	29.01	-3.05	135733.600	3.0	138819.170	3.0
3240.0086	28.01	-4.35	116824.150	2.5	119909.720	1.5
3240.0821	13.01	-1.56	145132.100	4.0	148217.600	4.0
3240.0821	13.01	-1.70	145132.100	4.0	148217.600	4.0
3240.0821	13.01	-.03	145132.100	4.0	148217.600	5.0
3240.0821	13.01	-3.13	145132.100	4.0	148217.600	3.0
3240.3005	14.00	-1.57	59056.508	1.0	62141.800	1.0
3240.6040	14.00	-2.79	61562.477	3.0	64647.480	3.0
3240.6335	12.00	-1.56	57019.025	2.0	60104.000	1.0
3240.7753	22.00	-2.17	25797.600	3.0	28882.440	3.0
3240.8173	21.00	-4.59	17947.980	1.5	21032.780	2.5
3240.8562	10.00	-4.93	167795.897	3.0	170880.660	2.0
3240.8562	10.00	-3.63	167795.897	3.0	170880.660	3.0
3240.9906	18.00	-3.67	121470.304	0.0	124554.939	1.0
3241.1325	13.01	-.79	146185.000	2.0	149269.500	2.0
3241.1325	13.01	-.06	146185.000	1.0	149269.500	2.0
3241.1325	13.01	-.26	146185.000	2.0	149269.500	3.0
3241.1325	13.01	-2.34	146185.000	3.0	149269.500	2.0
3241.1325	13.01	-1.16	146185.000	3.0	149269.500	3.0
3241.1325	13.01	.27	146185.000	3.0	149269.500	4.0
3241.2797	9.02	-1.09	441385.880	1.5	444470.240	1.5
3241.3217	28.01	-3.05	115209.850	3.5	118294.170	3.5
3241.3395	14.00	-4.29	61562.477	3.0	64646.780	2.0
3241.7736	20.02	-3.15	371059.950	3.0	374143.840	3.0
3241.8052	29.01	-4.21	136035.640	3.0	139119.500	3.0
3241.8640	12.00	-1.43	58023.246	2.0	61107.050	2.0
3241.8640	12.00	-1.12	58023.246	2.0	61107.050	3.0
3241.8640	12.00	-.56	58023.246	2.0	61107.050	3.0
3241.9008	14.00	-.44	54245.020	0.0	57328.789	1.0
3241.9566	10.00	-3.79	167796.944	2.0	170880.660	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3241.9566	10.00	-4.97	167796.944	2.0	170880.660	3.0
3242.1542	14.00	-1.79	61563.952	4.0	64647.480	3.0
3242.1942	20.02	-4.98	371059.950	3.0	374143.440	4.0
3242.1973	26.00	-4.74	50808.053	4.0	53891.540	3.0
3242.4433	10.00	-1.07	167449.464	1.0	170532.717	2.0
3242.7725	9.02	-1.85	441406.460	3.5	444489.400	2.5
3242.7726	26.02	-2.46	201919.530	4.0	205002.470	3.0
3243.3165	17.00	-2.53	97807.707	2.5	100890.130	2.5
3243.3302	18.01	-1.00	204929.400	.5	208011.810	1.5
3243.3502	7.00	-3.68	111905.609	2.5	114988.000	1.5
3243.3502	7.00	-3.19	111905.609	2.5	114988.000	2.5
3243.3502	7.00	-2.98	111905.609	2.5	114988.000	3.5
3243.4217	14.00	-1.17	59636.667	1.0	62718.990	0.0
3243.6058	17.00	-.58	97807.707	2.5	100889.855	3.5
3243.9721	15.00	-1.63	72618.000	.5	75699.800	.5
3244.0427	26.00	-4.75	47452.702	4.0	50534.435	3.0
3244.1827	9.00	-.93	130141.650	1.5	133223.250	.5
3244.2248	15.00	-2.95	66813.040	1.5	69894.600	1.5
3244.4248	18.01	-3.91	211586.110	2.5	214667.480	2.5
3244.6564	10.00	-3.00	169748.150	1.0	172829.300	1.0
3244.7512	6.00	-2.40	84032.150	1.0	87113.210	2.0
3244.7828	29.01	-4.30	141733.900	2.0	144814.930	3.0
3245.0335	10.00	-4.27	167794.968	2.0	170875.760	1.0
3245.0335	10.00	-3.31	167794.968	2.0	170875.760	2.0
3245.3411	28.01	-4.75	98276.700	4.5	101357.200	4.5
3245.7520	28.01	-2.43	113753.040	4.5	116833.150	4.5
3245.9628	27.00	-4.79	42796.670	1.5	45876.580	2.5
3246.0124	10.00	-4.94	167795.897	3.0	170875.760	2.0
3246.1314	10.00	-1.59	169748.150	1.0	172827.900	2.0
3246.3950	19.02	-4.51	241443.500	2.5	244523.000	2.5
3246.9126	7.00	-.07	103735.450	2.5	106814.459	2.5
3246.9749	20.02	-3.68	371059.950	3.0	374138.900	4.0
3247.0804	6.00	-4.53	83877.310	1.0	86956.160	1.0
3247.7660	8.01	-.02	257963.800	2.5	261042.000	2.5
3247.7840	7.00	-.25	106778.337	1.5	109856.520	1.5
3248.1396	14.00	-.89	60705.464	3.0	63783.310	4.0
3248.7158	10.00	-1.61	169748.150	1.0	172825.450	1.0
3248.7908	7.00	-.95	111213.271	1.5	114290.500	2.5
3248.8848	14.01	-.49	119578.490	3.5	122655.630	2.5
3248.9481	23.00	-4.87	39241.340	2.5	42318.420	1.5
3249.0114	14.01	-.37	119578.490	4.5	122655.510	3.5
3249.0114	14.01	-1.92	119578.490	3.5	122655.510	3.5
3249.2121	24.00	-4.26	30858.820	2.0	33935.650	2.0
3249.6452	10.00	-1.99	169748.150	1.0	172824.570	0.0
3250.0255	24.00	-4.93	30858.820	2.0	33934.880	3.0
3250.0466	6.00	-1.67	80801.270	2.0	83877.310	1.0
3250.1839	20.00	-1.95	44955.670	0.0	48031.580	1.0
3250.5379	20.00	-1.63	44957.655	1.0	48033.230	2.0
3250.7155	17.00	-2.71	94732.300	3.5	97807.707	2.5
3250.8287	17.01	-3.47	147605.700	3.0	150681.000	2.0
3251.0083	22.00	-3.17	41087.310	3.0	44162.440	4.0
3251.3784	6.00	-3.54	83838.080	2.0	86912.860	1.0
3251.4101	8.01	-4.60	253048.350	2.5	256123.100	3.5
3251.7221	20.00	-1.38	44961.757	2.0	48036.212	3.0
3252.0130	9.00	-1.11	130149.070	.5	133223.250	.5
3252.2828	20.00	-2.08	44957.655	1.0	48031.580	1.0
3252.9547	21.00	-4.52	34480.050	2.5	37553.340	2.5
3253.3666	10.00	-3.23	167807.759	1.0	170880.660	2.0
3253.6005	28.01	-4.35	130900.650	2.5	133973.330	2.5
3253.9394	18.01	-2.70	202149.110	2.5	205221.470	1.5
3254.1830	22.01	-2.70	67820.870	4.5	70893.000	3.5
3254.5326	9.00	-.05	129937.330	1.5	133009.130	.5
3254.6174	17.00	-1.84	91660.580	2.5	94732.300	3.5
3254.8792	20.00	-2.09	44961.757	2.0	48033.230	2.0
3254.9247	29.01	-.74	133727.870	2.0	136799.300	2.0
3255.1685	15.00	-.90	72618.000	.5	75689.200	1.5
3255.3274	26.02	-3.76	198821.390	6.0	201892.440	5.0
3255.3974	7.00	-1.82	111204.016	2.5	114275.000	3.5
3255.4016	28.01	-3.24	118314.820	2.5	121385.800	1.5
3255.4122	6.00	-2.20	84032.150	1.0	87103.120	1.0
3255.5712	28.01	-4.03	115827.120	3.5	118897.940	2.5
3256.0060	28.01	-4.24	94729.250	2.5	97799.660	1.5
3256.1120	29.01	-3.31	135910.990	2.0	138981.300	2.0
3256.4578	7.00	-1.22	111204.016	2.5	114274.000	2.5
3256.6286	20.00	-3.24	44961.757	2.0	48031.580	1.0
3256.8492	7.00	-3.15	107253.106	2.5	110322.721	1.5
3257.4011	7.00	-1.75	111060.905	.5	114130.000	.5
3257.4827	18.00	-1.70	119566.110	3.0	122635.128	2.0
3257.5188	14.00	-4.92	59917.336	2.0	62986.320	2.0
3257.8362	14.00	-2.67	60815.925	2.0	63884.610	1.0
3257.9010	14.00	-3.14	59917.336	2.0	62985.960	1.0
3257.9159	29.01	-4.66	113302.800	4.0	116371.410	4.0
3258.0327	21.00	-4.23	37486.480	1.5	40554.980	2.5
3258.4298	28.00	-1.36	47208.228	1.0	50276.354	0.0
3258.4405	14.00	-3.77	60705.464	3.0	63773.580	2.0
3258.5625	10.00	-3.59	167807.759	1.0	170875.760	1.0
3258.5743	25.00	-4.77	56189.450	4.5	59257.440	4.5
3258.7485	14.00	-2.37	60705.464	3.0	63773.290	3.0
3259.0183	14.00	-1.48	58774.368	3.0	61841.940	2.0
3259.4986	22.00	-3.67	43583.140	3.0	46650.260	3.0
3259.5517	28.01	-4.61	118631.950	.5	121699.020	1.5
3259.5815	7.00	-2.61	111165.158	1.5	114232.200	1.5
3259.8759	7.00	-1.68	107037.069	2.5	110103.834	1.5
3260.1693	14.00	-2.55	58775.451	2.0	61841.940	2.0
3260.4436	28.00	-3.40	44262.619	2.0	47328.850	2.0
3260.9445	25.00	-3.11	59360.720	2.5	62426.480	3.5
3261.1562	26.00	-3.77	48304.623	2.0	51370.184	2.0
3261.2924	7.00	-2.72	111143.567	.5	114209.000	.5
3261.3701	25.00	-3.85	53124.090	3.5	56189.450	4.5
3261.6041	27.00	-2.81	42811.440	3.5	45876.580	2.5
3262.1257	14.02	-4.86	254766.750	2.0	257831.400	3.0
3262.2044	14.00	-3.94	61597.404	3.0	64661.980	3.0
3262.2363	28.00	-.54	50689.490	2.0	53754.036	2.0
3262.3172	28.01	-1.68	116732.510	2.5	119796.980	2.5
3262.5579	14.00	-1.77	56978.256	1.0	60042.500	0.0
3262.5728	28.01	-4.61	128732.030	1.5	131796.260	2.5
3262.9806	17.00	-.25	97807.707	2.5	100871.554	3.5
3263.1137	14.00	-.75	60706.558	1.0	63770.280	1.0
3263.2117	21.00	-4.86	34422.850	1.5	37486.480	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3263.7444	23.00	-4.65	39341.760	3.5	42404.890	3.5
3263.7635	18.00	-1.08	121794.158	0.0	124857.270	1.0
3264.5277	7.00	-1.86	107182.788	1.5	110245.183	.5
3264.7889	26.02	-2.53	202030.380	3.0	205092.530	4.0
3264.8422	7.00	-4.35	112826.900	2.5	115889.000	1.5
3265.0267	18.00	-4.54	118870.981	0.0	121932.908	1.0
3265.3477	26.00	-3.14	45061.287	3.0	48122.913	3.0
3265.9621	9.00	-1.73	129937.330	1.5	132998.380	1.5
3266.1222	15.01	-2.62	127889.300	3.0	130950.200	2.0
3266.3046	7.00	-1.27	111213.271	1.5	114274.000	2.5
3266.9205	7.00	-1.61	111198.848	.5	114259.000	1.5
3266.9547	18.01	-3.04	160239.350	1.5	163299.470	2.5
3266.9761	15.00	-3.12	66834.500	1.5	69894.600	1.5
3267.0294	28.01	-2.64	100592.980	3.5	103653.030	3.5
3267.2429	29.01	-1.06	133984.600	3.0	137044.450	4.0
3267.7022	12.00	-1.82	57204.163	3.0	60263.583	2.0
3267.7022	12.00	-3.03	57204.163	3.0	60263.583	3.0
3267.8218	12.00	-2.97	57204.275	2.0	60263.583	2.0
3267.8218	12.00	-2.07	57204.275	2.0	60263.583	1.0
3267.8218	12.00	-4.86	57204.275	3.0	60263.583	2.0
3267.8218	12.00	-4.35	57204.275	2.0	60263.583	3.0
3267.8218	12.00	-3.19	57204.275	3.0	60263.583	3.0
3267.8218	12.00	-1.74	57204.275	4.0	60263.583	3.0
3268.5889	18.01	-.36	200138.850	3.5	203197.440	3.5
3269.0988	17.00	-.80	97807.707	2.5	100865.820	2.5
3269.1918	7.00	.34	106868.635	3.5	109926.661	2.5
3269.2195	8.03	-.36	593273.000	2.5	596331.000	3.5
3269.3478	18.01	-1.95	196621.880	3.5	199679.760	2.5
3269.5905	17.00	-2.08	97807.707	2.5	100865.360	1.5
3269.8012	14.00	-1.56	60705.464	3.0	63762.920	4.0
3269.8226	11.00	-1.92	37036.754	2.5	40094.190	2.5
3269.8226	11.00	-.62	37036.754	2.5	40094.190	3.5
3269.8440	11.00	-.77	37036.774	1.5	40094.190	2.5
3270.0536	18.01	-2.14	189654.780	2.5	192712.000	1.5
3270.5714	14.00	-1.57	60705.464	3.0	63762.200	3.0
3271.1396	14.00	-3.48	60962.105	2.0	64018.310	1.0
3271.1814	18.00	-2.37	123468.034	1.0	126524.200	0.0
3271.6696	14.00	-.68	60704.530	3.0	63760.240	3.0
3271.8194	6.00	-.81	80782.510	1.0	83838.080	2.0
3271.9694	26.00	-4.55	48238.832	2.0	51294.262	3.0
3272.1728	7.00	-1.82	106980.480	.5	110035.720	.5
3272.3442	14.00	-2.30	58786.860	3.0	61841.940	2.0
3272.3870	25.00	-2.41	57705.830	.5	60760.870	1.5
3272.4471	7.00	-2.44	111204.016	2.5	114259.000	1.5
3272.6120	6.00	-2.40	83947.430	3.0	87002.260	3.0
3272.9655	15.00	-3.55	78069.000	1.5	81123.500	2.5
3272.9763	28.01	-2.80	100609.010	2.5	103663.500	1.5
3273.7051	28.01	.81	130661.320	5.5	133715.130	4.5
3273.7158	6.00	-3.37	86912.860	1.0	89966.660	2.0
3274.0353	7.00	-.44	106758.731	.5	109812.233	.5
3274.2659	17.00	-.97	97149.323	.5	100202.610	1.5
3274.3698	9.02	-1.58	466190.470	4.5	469243.660	4.5
3274.4020	26.00	-4.78	51630.230	5.0	54683.390	4.0
3274.5447	17.00	-1.46	97149.323	.5	100202.350	.5
3274.6594	28.01	-4.20	115870.280	2.5	118923.200	3.5
3274.6917	6.00	-4.05	86469.510	3.0	89522.400	2.0
3274.9062	9.02	.05	466190.970	3.5	469243.660	4.5
3275.0992	11.00	-1.36	37296.320	.5	40348.830	1.5
3275.1100	18.01	-3.79	154181.430	4.5	157233.930	3.5
3275.3461	26.00	-3.92	51361.460	3.0	54413.740	3.0
3275.6680	27.00	-4.29	52355.120	.5	55407.100	1.5
3275.8076	21.00	-1.27	33278.640	3.5	36330.490	2.5
3276.4840	11.00	-1.11	37297.610	1.5	40348.830	2.5
3276.4840	11.00	-2.06	37297.610	1.5	40348.830	1.5
3276.7847	9.02	.14	466190.470	4.5	469241.410	5.5
3277.0639	21.00	-4.03	37553.340	2.5	40604.020	3.5
3277.1391	27.00	-2.95	48217.320	3.5	51267.930	4.5
3277.2573	6.00	-2.43	78293.490	1.0	81343.990	2.0
3277.3969	29.01	-2.97	133984.600	3.0	137034.970	3.0
3277.5710	22.00	-1.57	36065.750	3.0	39115.958	4.0
3277.6333	23.00	-2.66	37075.640	4.5	40125.790	3.5
3277.7128	14.00	-2.22	61597.404	3.0	64647.480	3.0
3277.8160	6.00	-3.85	86331.630	1.0	89381.610	0.0
3278.1750	26.00	-3.14	47929.981	4.0	50979.627	4.0
3278.2030	6.00	-3.91	86469.510	3.0	89519.130	3.0
3278.3643	6.00	-3.37	86469.660	4.0	89519.130	3.0
3278.4040	7.00	-1.01	111143.567	.5	114193.000	1.5
3278.4652	14.00	-2.58	61597.404	3.0	64646.780	2.0
3278.5093	14.00	-3.51	61598.145	2.0	64647.480	3.0
3279.0417	9.02	-2.78	440582.120	4.5	443630.960	3.5
3279.1600	21.00	-4.02	32696.840	2.5	35745.570	2.5
3279.2621	14.00	-3.01	61598.145	2.0	64646.780	2.0
3279.3095	12.00	-3.74	57214.992	1.0	60263.583	2.0
3279.3966	24.00	-1.74	35862.820	4.0	38911.330	3.0
3279.4407	14.00	-3.73	61303.381	3.0	64351.850	3.0
3279.7075	17.00	-3.62	96486.198	1.5	99534.419	.5
3279.8377	29.01	-4.93	135834.900	4.0	138883.000	4.0
3279.8699	18.01	-4.29	199959.620	2.5	203007.690	1.5
3279.9022	10.01	-4.29	276276.850	1.5	279324.890	1.5
3280.0099	26.00	-2.80	51076.680	4.0	54124.620	4.0
3280.0594	17.00	.44	94482.236	2.5	97530.130	2.5
3280.1014	14.00	-1.60	60815.925	2.0	63863.780	2.0
3280.1283	24.00	-4.47	30858.820	2.0	33906.650	1.0
3280.2681	13.01	-2.85	144524.300	1.0	147572.000	0.0
3280.2681	13.01	-2.46	144524.300	1.0	147572.000	1.0
3280.2681	13.01	-2.16	144524.300	1.0	147572.000	2.0
3280.4189	6.00	-.76	80801.270	2.0	83848.830	3.0
3280.6481	17.00	-.24	97842.783	1.5	100890.130	2.5
3280.7957	6.00	-3.81	86185.200	2.0	89232.410	1.0
3281.0325	28.01	-4.01	115827.120	3.5	118874.110	3.5
3281.0541	24.00	-2.05	37883.340	2.0	40930.310	1.0
3281.1531	26.00	-4.53	53545.882	3.0	56592.760	4.0
3281.1639	7.00	-1.13	107253.106	2.5	110299.974	2.5
3281.1758	14.00	-1.98	59109.959	3.0	62156.816	2.0
3281.2372	14.00	-4.43	61305.050	3.0	64351.850	3.0
3281.3018	18.01	-2.69	196633.020	2.5	199679.760	2.5
3282.1808	14.00	-3.58	59110.892	2.0	62156.816	2.0
3282.1991	26.00	-4.28	50967.873	6.0	54013.780	5.0
3282.3382	14.00	-.83	57450.580	3.0	60496.358	2.0
3282.3683	28.01	-4.61	97799.660	1.5	100845.410	.5
3282.3910	7.00	-1.14	111213.271	1.5	114259.000	1.5
3282.7456	15.01	-2.85	127756.300	2.0	130801.700	1.0
3282.9396	25.00	-4.31	59527.890	1.5	62573.110	1.5
3282.9504	6.00	-2.60	84032.150	1.0	87077.360	0.0
3283.0291	14.00	-2.59	61306.713	4.0	64351.850	3.0
3283.0420	14.00	-1.40	59273.575	1.0	62318.700	0.0
3283.3817	14.00	-2.81	61617.170	4.0	64661.980	3.0
3283.6297	27.00	-3.78	49025.420	1.5	52070.000	2.5
3283.7699	25.00	-4.27	59470.140	3.5	62514.590	2.5
3283.8336	7.00	-1.83	111905.609	2.5	114950.000	1.5
3284.2726	7.00	-.98	111204.016	2.5	114248.000	3.5
3284.4258	7.00	-2.79	111165.158	1.5	114209.000	.5
3284.5791	26.01	-1.12	84296.700	5.5	87340.400	5.5
3284.7194	28.01	-4.28	130570.420	.5	133613.990	1.5
3285.1187	15.01	-.54	127950.600	2.0	130993.800	3.0
3285.1295	25.00	-3.32	59257.440	4.5	62300.630	4.5
3285.4566	7.00	-1.03	103735.450	2.5	106778.337	1.5
3285.5938	6.00	-3.92	86482.780	2.0	89525.540	1.0
3286.0258	10.00	-4.17	169814.630	2.0	172856.990	1.0
3286.2202	29.01	-3.42	117747.450	3.0	120789.630	4.0
3286.3488	7.00	.05	106814.459	2.5	109856.520	1.5
3286.6923	10.00	-4.05	169530.487	2.0	172572.230	3.0
3286.8047	10.00	-4.24	169530.491	1.0	172572.130	2.0
3287.1279	17.00	-.81	96313.330	1.5	99354.670	1.5
3287.2359	6.00	-2.88	86469.660	4.0	89510.900	3.0
3287.5818	6.00	-2.95	86469.510	3.0	89510.430	2.0
3287.7116	24.00	-4.42	35870.530	4.0	38911.330	3.0
3287.9343	18.00	-1.47	115366.900	1.0	118407.494	1.0
3288.2058	10.00	-3.87	169530.487	2.0	172570.830	1.0
3288.2101	10.00	-3.17	169530.491	1.0	172570.830	1.0
3288.8364	15.00	-2.84	66813.040	1.5	69852.800	.5
3288.8580	26.02	-3.69	219566.080	3.0	222605.820	4.0
3288.8580	6.00	-2.99	86482.660	3.0	89522.400	2.0
3288.9143	7.00	-1.12	106996.032	1.5	110035.720	.5
3288.9771	28.01	-4.17	116275.810	3.5	119315.440	2.5
3288.9879	6.00	-4.78	86482.780	2.0	89522.400	2.0
3289.1394	18.00	-3.67	123172.090	1.0	126211.570	1.0
3289.2140	22.00	-3.04	29818.310	3.0	32857.721	3.0
3289.2260	8.03	-1.04	593473.000	.5	596512.400	1.5
3289.3882	8.01	-4.95	253048.350	2.5	256087.600	2.5
3289.4099	22.00	-2.49	41194.420	3.0	44233.650	3.0
3289.4857	26.02	-4.71	219566.080	3.0	222605.240	3.0
3289.7347	16.00	-2.99	78269.200	4.0	81308.130	3.0
3289.7347	16.00	-1.82	78269.200	4.0	81308.130	4.0
3289.7347	16.00	-.95	78269.200	4.0	81308.130	5.0
3289.7638	10.00	-2.92	169530.487	2.0	172569.390	2.0
3289.7682	10.00	-3.87	169530.491	1.0	172569.390	2.0
3289.8754	8.01	-3.79	248185.300	2.5	251224.100	2.5
3289.9393	14.00	-1.83	59506.359	2.0	62545.100	1.0
3290.1785	6.00	-1.27	78731.270	1.0	81769.790	2.0
3290.1893	16.00	-2.69	78269.620	2.0	81308.130	1.0
3290.1893	16.00	-1.69	78269.620	2.0	81308.130	2.0
3290.1893	16.00	-2.69	78269.620	3.0	81308.130	2.0
3290.1893	16.00	-1.31	78269.620	2.0	81308.130	3.0
3290.1893	16.00	-1.67	78269.620	3.0	81308.130	3.0
3290.1893	16.00	-1.12	78269.620	3.0	81308.130	4.0
3290.5467	18.01	-2.10	202155.860	2.5	205194.040	1.5
3290.6984	16.00	-1.85	78270.090	1.0	81308.130	1.0
3290.6984	16.00	-1.85	78270.090	0.0	81308.130	1.0
3290.6984	16.00	-1.55	78270.090	1.0	81308.130	2.0
3290.7309	22.00	-4.53	39686.100	2.0	42724.110	2.0
3290.7417	8.03	-.64	593406.000	1.5	596444.000	2.5
3290.7439	7.00	.05	104144.790	.5	107182.788	1.5
3290.8284	25.00	-1.73	59257.440	4.5	62295.360	5.5
3291.0667	18.00	-4.70	121654.320	3.0	124692.020	2.0
3291.1057	14.00	-2.09	59917.336	2.0	62955.000	2.0
3291.1534	6.00	-.37	80782.510	1.0	83820.130	1.0
3291.2292	24.00	-3.17	41043.350	3.0	44080.900	2.0
3291.3484	18.00	-4.98	121654.580	2.0	124692.020	2.0
3291.4676	28.01	-3.33	53037.930	2.5	56075.260	2.5
3291.4796	7.00	-2.16	107182.788	1.5	110220.107	1.5
3291.5868	25.00	-3.58	59257.440	4.5	62294.660	3.5
3291.6908	14.00	-1.47	59917.336	2.0	62954.460	3.0
3291.7169	25.00	-4.47	56490.790	2.5	59527.890	1.5
3291.8914	7.00	-3.17	111853.061	1.5	114890.000	1.5
3292.0312	6.00	-.14	80801.270	2.0	83838.080	2.0
3292.3998	6.00	-4.29	86482.660	3.0	89519.130	3.0
3292.4540	6.00	-3.70	86411.980	3.0	89448.400	3.0
3292.5191	6.00	-1.27	78307.630	2.0	81343.990	2.0
3292.7468	28.01	-4.61	114836.630	3.5	117872.780	2.5
3292.8401	8.00	-2.42	105441.736	2.0	108477.800	1.0
3292.8401	8.00	-3.15	105441.736	2.0	108477.800	2.0
3292.8401	8.00	-4.70	105441.736	2.0	108477.800	3.0
3292.8401	8.00	-2.25	105441.736	3.0	108477.800	2.0
3292.8401	8.00	-3.15	105441.736	3.0	108477.800	3.0
3292.8401	8.00	-2.09	105441.736	4.0	108477.800	3.0
3293.0137	18.00	-2.84	114147.750	1.0	117183.654	2.0
3293.0213	17.00	-1.76	97149.323	.5	100185.220	1.5
3293.3435	8.01	-2.80	248185.300	2.5	251220.900	3.5
3293.3977	6.00	-3.26	83877.310	1.0	86912.860	1.0
3293.5387	6.00	-3.12	86411.980	3.0	89447.400	2.0
3293.5463	10.00	-2.48	169530.487	2.0	172565.900	1.0
3293.5507	10.00	-3.17	169530.491	1.0	172565.900	1.0
3293.6147	6.00	-3.89	86412.050	2.0	89447.400	2.0
3293.9837	19.00	-4.23	30617.310	3.5	33652.320	3.5
3293.9837	19.00	-2.69	30617.310	4.5	33652.320	3.5
3293.9837	19.00	-2.80	30617.310	3.5	33652.320	2.5
3294.2876	21.00	-4.83	37486.480	1.5	40521.210	1.5
3294.3093	22.00	-4.74	38159.710	3.0	41194.420	3.0
3294.3744	11.00	-4.29	37059.540	3.5	40094.190	3.5
3294.3744	11.00	-2.74	37059.540	4.5	40094.190	3.5
3294.3744	11.00	-2.85	37059.540	3.5	40094.190	2.5
3294.5373	29.01	-4.03	135863.930	1.0	138898.430	1.0
3294.6578	10.00	-2.87	169530.491	1.0	172564.880	0.0
3294.9401	12.00	-1.99	56308.381	2.0	59342.510	1.0
3294.9401	12.00	-2.47	56308.381	2.0	59342.510	2.0
3295.1780	6.00	-4.42	86414.490	3.0	89448.400	3.0
3295.1932	7.00	-.44	106778.337	1.5	109812.233	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3295.2431	26.02	-3.00	219743.040	1.0	222776.890	1.0
3295.3300	28.01	-2.49	100619.260	4.5	103653.030	3.5
3295.3854	10.00	-2.08	169534.364	4.0	172568.083	3.0
3295.3952	6.00	-4.09	86414.690	4.0	89448.400	3.0
3295.6276	10.00	-3.63	169534.364	4.0	172567.860	4.0
3295.6385	10.00	-1.98	169534.374	5.0	172567.860	4.0
3295.7841	7.00	-2.83	111198.848	.5	114232.200	1.5
3295.8613	10.00	-2.81	169538.949	3.0	172572.230	3.0
3295.8689	10.00	-4.11	169538.956	2.0	172572.230	3.0
3295.9504	7.00	-4.02	107253.106	2.5	110286.305	2.5
3295.9700	10.00	-4.12	169538.949	3.0	172572.130	2.0
3295.9776	10.00	-2.96	169538.956	2.0	172572.130	2.0
3296.1123	10.00	-1.62	169797.190	3.0	172830.240	3.0
3296.1362	10.00	-2.40	170317.742	2.0	173350.770	1.0
3296.1557	10.00	-2.91	169797.190	3.0	172830.200	2.0
3296.2449	17.00	-4.32	99200.382	3.5	102233.310	2.5
3296.2645	6.00	-3.46	86414.490	3.0	89447.400	2.0
3296.5362	11.00	-3.43	37057.650	2.5	40090.310	2.5
3296.5362	11.00	-2.13	37057.650	3.5	40090.310	2.5
3296.5362	11.00	-2.29	37057.650	2.5	40090.310	1.5
3296.6775	21.00	-4.88	18000.250	2.5	21032.780	2.5
3296.7535	6.00	-2.61	86317.640	2.0	89350.100	2.0
3296.7971	25.00	-2.38	59600.350	2.5	62632.770	3.5
3296.9275	7.00	-4.96	112957.700	1.5	115990.000	1.5
3296.9602	6.00	-1.23	78293.490	1.0	81325.760	1.0
3296.9710	26.00	-2.29	51381.480	4.0	54413.740	3.0
3296.9928	22.00	-4.76	44162.440	4.0	47194.680	4.0
3297.0341	14.00	-1.83	56978.256	1.0	60010.458	1.0
3297.0907	17.00	-2.81	98693.220	2.5	101725.370	1.5
3297.3908	10.00	-2.49	169538.956	2.0	172570.830	1.0
3297.3930	10.00	-3.37	170317.638	3.0	173349.510	3.0
3297.4039	10.00	-4.66	170317.638	3.0	173349.500	2.0
3297.4365	10.00	-2.20	170317.638	3.0	173349.470	2.0
3297.4430	10.00	-2.07	170317.684	4.0	173349.510	3.0
3297.4843	10.00	-3.50	170317.722	3.0	173349.510	3.0
3297.4951	10.00	-2.19	170317.722	3.0	173349.500	2.0
3297.5060	10.00	-4.67	170317.742	2.0	173349.510	3.0
3297.5169	10.00	-3.53	170317.742	2.0	173349.500	2.0
3297.5495	10.00	-3.35	170317.742	2.0	173349.470	2.0
3297.7541	28.01	-3.15	133169.920	3.5	136201.460	3.5
3297.7911	7.00	.46	104221.600	1.5	107253.106	2.5
3298.0152	8.03	-2.39	593627.000	1.5	596658.300	2.5
3298.1457	26.02	-3.30	219743.040	1.0	222774.220	2.0
3298.1566	22.00	-4.22	34327.960	1.0	37359.130	2.0
3298.1893	10.00	-2.29	170578.390	1.0	173609.530	1.0
3298.3742	28.01	-2.87	130942.360	1.5	133973.330	2.5
3298.3960	28.01	-3.64	106007.890	2.5	109038.840	1.5
3298.4286	28.01	-3.06	118294.170	3.5	121325.090	2.5
3298.4395	22.00	-2.39	25797.600	3.0	28828.510	2.0
3298.5136	7.00	-1.55	111165.158	1.5	114196.000	2.5
3298.6354	18.00	-3.96	123172.090	1.0	126202.820	0.0
3298.6572	10.00	-2.55	169797.190	3.0	172827.900	2.0
3298.9500	10.00	-2.30	169538.949	3.0	172569.390	2.0
3298.9576	10.00	-3.45	169538.956	2.0	172569.390	2.0
3298.9729	27.00	-4.04	45688.150	2.5	48718.570	2.5
3299.0033	18.00	-2.40	119760.220	1.0	122790.612	0.0
3299.0926	14.00	-2.94	61617.170	4.0	64647.480	3.0
3299.1013	28.00	-1.05	47686.625	0.0	50716.927	1.0
3299.2886	10.00	-1.26	170578.390	1.0	173608.520	2.0
3299.3430	10.00	-2.98	170578.390	1.0	173608.470	2.0
3299.3975	10.00	-2.39	169797.190	3.0	172827.220	3.0
3299.4846	10.00	-.96	169797.190	3.0	172827.140	4.0
3299.8178	26.00	-4.93	53353.020	6.0	56382.664	5.0
3299.8364	7.00	-2.09	111260.873	3.5	114290.500	2.5
3299.8571	7.00	-.41	107182.788	1.5	110212.396	2.5
3300.0825	18.00	-2.12	121011.979	1.0	124041.380	2.0
3300.2787	18.00	-2.71	121011.979	1.0	124041.200	1.0
3300.3004	10.00	-3.57	169543.029	3.0	172572.230	3.0
3300.3081	10.00	-2.13	169543.036	4.0	172572.230	3.0
3300.3811	10.00	-4.34	169538.956	2.0	172568.083	3.0
3300.4093	10.00	-2.26	169543.029	3.0	172572.130	2.0
3300.6164	10.00	-4.22	169538.949	3.0	172567.860	4.0
3300.7919	29.01	-3.97	135952.550	2.0	138981.300	2.0
3300.9935	14.00	-3.06	60962.105	2.0	63990.670	2.0
3301.0175	8.00	-2.79	105441.657	1.0	108470.200	1.0
3301.0175	8.00	-3.64	105441.657	1.0	108470.200	2.0
3301.0175	8.00	-2.49	105441.657	2.0	108470.200	1.0
3301.0175	8.00	-2.64	105441.657	2.0	108470.200	2.0
3301.0175	8.00	-3.64	105441.657	2.0	108470.200	3.0
3301.0175	8.00	-2.26	105441.657	3.0	108470.200	2.0
3301.0175	8.00	-2.62	105441.657	3.0	108470.200	3.0
3301.0175	8.00	-3.94	105441.657	3.0	108470.200	4.0
3301.0175	8.00	-2.07	105441.657	4.0	108470.200	3.0
3301.0175	8.00	-2.76	105441.657	4.0	108470.200	4.0
3301.0175	8.00	-1.90	105441.657	5.0	108470.200	4.0
3301.0175	8.00	-2.79	105441.657	1.0	108470.200	0.0
3301.3478	6.00	-3.68	86482.660	3.0	89510.900	3.0
3301.4088	7.00	-1.86	111204.016	2.5	114232.200	1.5
3301.6312	14.00	-2.56	60856.630	1.0	63884.610	1.0
3301.7185	17.01	-4.13	158768.600	2.0	161796.500	3.0
3301.7817	7.00	-1.59	111165.158	1.5	114193.000	1.5
3301.8603	6.00	-4.58	86482.660	3.0	89510.430	2.0
3301.9475	26.00	-4.97	53830.960	3.0	56858.650	2.0
3301.9802	28.01	-4.68	115870.280	2.5	118897.940	2.5
3302.3728	15.00	-2.04	76192.300	1.5	79219.600	.5
3302.4819	28.00	-2.45	44112.192	1.0	47139.392	2.0
3302.7110	6.00	-4.51	86498.550	1.0	89525.540	1.0
3302.8093	6.00	-3.17	86498.640	2.0	89525.540	1.0
3303.9117	9.00	-1.10	126581.180	.5	129607.070	.5
3304.0646	18.01	-1.44	199981.940	1.5	203007.690	1.5
3304.0754	6.00	-.57	78318.250	3.0	81343.990	2.0
3304.4796	24.00	-2.32	41043.350	3.0	44068.720	3.0
3304.5779	22.00	-1.83	25926.820	4.0	28952.100	4.0
3304.8247	10.00	-3.04	169543.029	3.0	172568.083	3.0
3304.8324	10.00	-4.48	169543.036	4.0	172568.083	3.0
3305.0684	10.00	-4.47	169543.029	3.0	172567.860	4.0
3305.0761	10.00	-2.93	169543.036	4.0	172567.860	4.0
3305.2323	17.00	-4.43	94314.206	1.5	97338.887	2.5
3305.2968	7.00	-.21	107445.622	1.5	110470.244	2.5
3305.4411	10.00	-2.00	170585.040	1.0	173609.530	1.0
3305.5393	15.01	-2.61	127889.300	3.0	130913.700	3.0
3306.2391	6.00	-3.83	86498.640	2.0	89522.400	2.0
3306.2718	8.00	-.05	99092.980	1.0	102116.710	2.0
3306.5999	10.00	-1.30	170585.040	1.0	173608.470	2.0
3306.6655	28.01	-3.74	134539.370	2.5	137562.740	3.5
3307.0057	18.00	-.05	116660.054	1.0	119683.113	2.0
3307.0078	8.00	.17	99093.653	2.0	102116.710	2.0
3307.0297	17.00	-.94	97842.783	1.5	100865.820	2.5
3307.1359	6.00	-2.70	86327.160	3.0	89350.100	2.0
3307.2453	29.01	-3.79	135958.460	1.0	138981.300	2.0
3307.4006	12.00	-1.92	54192.294	2.0	57214.992	1.0
3307.4422	28.01	-2.91	114052.040	3.5	117074.700	3.5
3307.5331	17.00	-1.11	97842.783	1.5	100865.360	1.5
3308.1667	17.00	-2.34	99200.382	3.5	102222.380	3.5
3308.3168	8.00	.31	99094.849	3.0	102116.710	2.0
3308.4952	17.00	-1.39	99200.382	3.5	102222.080	4.5
3308.7887	28.01	-3.85	135100.450	3.5	138121.880	4.5
3308.7997	6.00	-2.59	85625.180	0.0	88646.600	1.0
3309.5882	15.00	-3.17	72884.400	2.5	75905.100	2.5
3310.2458	13.01	-1.44	143170.000	1.0	146190.100	0.0
3310.5231	22.00	-1.50	36132.210	4.0	39152.057	5.0
3310.8334	26.00	-2.86	48350.620	1.0	51370.184	2.0
3310.9036	6.00	-3.68	86411.980	3.0	89431.480	2.0
3310.9672	22.00	-1.74	37824.748	4.0	40844.190	3.0
3310.9771	7.00	-2.67	111143.567	.5	114163.000	1.5
3311.0341	5.00	-.93	54767.633	1.5	57787.014	1.5
3311.0834	14.00	-2.67	61597.404	3.0	64616.740	2.0
3311.2216	5.00	.03	54767.804	2.5	57787.014	1.5
3311.3532	6.00	-4.45	86362.520	1.0	89381.610	0.0
3311.5298	7.00	-2.36	111213.271	1.5	114232.200	1.5
3311.6055	6.00	-.83	80801.270	2.0	83820.130	1.0
3311.7339	5.00	-.23	54767.633	1.5	57786.376	.5
3311.8962	14.00	-4.10	61598.145	2.0	64616.740	2.0
3312.0334	6.00	-2.54	86331.630	1.0	89350.100	2.0
3312.0839	14.00	-1.52	59917.336	2.0	62935.760	3.0
3312.2199	15.00	-3.65	66834.500	1.5	69852.800	.5
3312.2221	17.00	-3.73	99200.382	3.5	102218.680	2.5
3312.4065	6.00	-.78	78307.630	2.0	81325.760	1.0
3312.5272	6.00	-1.77	63947.430	3.0	86965.450	2.0
3313.0761	6.00	-1.06	78293.490	1.0	81311.010	0.0
3313.1859	23.00	-2.84	35225.040	2.5	38242.460	3.5
3313.3550	22.00	-2.04	37538.804	2.0	40556.070	1.0
3313.6471	14.00	-1.39	60704.530	3.0	63721.530	2.0
3313.6581	6.00	-3.06	86414.490	3.0	89431.480	2.0
3313.7460	23.00	-3.20	33966.720	.5	36983.630	1.5
3313.8207	7.00	-.68	111165.158	1.5	114182.000	2.5
3313.8734	18.00	-.65	113643.260	1.0	116660.054	1.0
3313.8822	26.00	-4.13	45333.834	2.0	48350.620	1.0
3314.2700	7.00	-.87	111143.567	.5	114160.000	1.5
3314.4601	23.00	-3.73	36983.630	1.5	39999.890	2.5
3314.5370	6.00	-.75	81105.030	1.0	84121.220	0.0
3315.0316	28.01	-4.48	116893.980	2.5	119909.720	1.5
3315.0536	27.00	-3.67	49025.420	1.5	52041.140	.5
3315.1492	17.00	-2.95	94827.150	2.5	97842.783	1.5
3315.1745	10.00	-2.68	169814.630	2.0	172830.240	3.0
3315.2185	10.00	-1.68	169814.630	2.0	172830.200	2.0
3315.5153	15.01	-.19	127934.900	1.0	130950.200	2.0
3315.5813	26.02	-3.10	219743.040	1.0	222758.280	2.0
3315.8452	13.01	-.88	143170.000	1.0	146185.000	1.0
3315.8452	13.01	-1.97	143170.000	2.0	146185.000	1.0
3315.8452	13.01	-.40	143170.000	1.0	146185.000	2.0
3315.8452	13.01	-.79	143170.000	2.0	146185.000	2.0
3315.8452	13.01	-.04	143170.000	2.0	146185.000	3.0
3315.8452	13.01	-.67	143170.000	0.0	146185.000	1.0
3315.8760	14.00	-.81	60706.556	1.0	63721.530	2.0
3315.8771	14.00	-1.87	54313.818	1.0	57328.789	1.0
3315.9079	26.00	-4.19	45913.480	3.0	48928.423	2.0
3316.2082	10.00	-2.59	169814.630	2.0	172829.300	1.0
3316.4953	28.00	-1.14	50689.490	2.0	53703.899	1.0
3316.6307	26.00	-4.10	53769.020	4.0	56783.306	3.0
3316.7033	6.00	.15	80834.610	3.0	83848.830	3.0
3316.7253	13.01	-.14	146185.000	2.0	149199.200	3.0
3316.7253	13.01	-1.04	146185.000	3.0	149199.200	3.0
3316.8056	7.00	-1.82	111260.873	3.5	114275.000	3.5
3316.9894	23.00	-2.66	35092.360	1.5	38106.320	2.5
3317.1215	6.00	-3.33	85625.180	0.0	88639.020	1.0
3317.2778	14.00	-.77	54528.220	2.0	57541.918	1.0
3317.3096	10.00	.04	162899.113	2.0	165912.782	1.0
3317.3856	29.01	-2.46	148361.700	1.0	151375.300	2.0
3317.6609	23.00	-2.03	37025.600	3.5	40038.950	4.5
3317.7148	14.00	-.86	59506.359	2.0	62519.660	2.0
3317.7489	10.00	-2.76	169814.630	2.0	172827.900	2.0
3317.8480	23.00	-3.11	33976.020	1.5	36989.200	2.5
3317.8591	10.00	-4.47	169843.820	2.0	172856.990	1.0
3317.9064	7.00	-1.81	111260.873	3.5	114274.000	2.5
3318.1564	13.01	-1.06	139588.700	4.0	142601.600	3.0
3318.1564	13.01	-.93	139588.700	4.0	142601.600	3.0
3318.2192	7.00	-.86	104615.440	1.5	107628.283	1.5
3318.3822	26.00	-4.29	40421.890	4.0	43434.585	3.0
3318.3986	10.00	-4.55	169839.450	1.0	172852.130	0.0
3318.4978	10.00	-1.14	169814.630	2.0	172827.220	3.0
3318.7622	18.01	-1.50	200138.850	3.5	203151.200	2.5
3318.7732	10.00	-3.00	170597.190	2.0	173609.530	1.0
3318.7776	28.00	-1.99	49185.146	2.0	52197.482	3.0
3318.8834	10.00	-2.82	169976.740	0.0	172988.980	1.0
3319.1269	12.00	-2.06	54192.256	3.0	57204.275	2.0
3319.1269	12.00	-.90	54192.256	3.0	57204.275	3.0
3319.1269	12.00	.55	54192.256	3.0	57204.275	4.0
3319.1688	12.00	-.69	54192.294	2.0	57204.275	2.0
3319.1688	12.00	-.54	54192.294	2.0	57204.275	3.0
3319.1699	23.00	-2.15	36989.200	2.5	40001.180	3.5
3319.2151	12.00	.22	54192.336	1.0	57204.275	2.0
3319.2503	12.00	-.74	54192.256	3.0	57204.163	3.0
3319.2922	12.00	.17	54192.294	2.0	57204.163	3.0
3319.2955	7.00	-1.08	107182.788	1.5	110194.654	1.5
3319.3606	17.00	-4.38	94468.857	.5	97480.664	1.5
3319.3793	21.00	-4.46	32659.210	1.5	35671.000	1.5
3319.3793	6.00	-4.11	86498.640	2.0	89510.430	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3319.8643	10.00	-1.07	170597.190	2.0	173608.540	3.0
3319.8863	10.00	-2.22	170597.190	2.0	173608.520	2.0
3319.9414	10.00	-2.04	170597.190	2.0	173608.470	2.0
3320.1841	6.00	-.38	81105.030	1.0	84116.090	1.0
3320.4487	10.00	-2.85	169814.630	2.0	172825.450	1.0
3320.5921	23.00	-3.84	36989.200	2.5	39999.890	2.5
3320.6108	22.00	-1.90	37659.927	3.0	40670.600	2.0
3320.8017	6.00	-2.54	86956.160	1.0	89966.660	2.0
3320.9120	25.00	-2.25	59290.230	3.5	62300.630	4.5
3321.0554	28.01	-3.78	118314.820	2.5	121325.090	2.5
3321.0796	7.00	-2.08	111060.905	.5	114071.153	1.5
3321.1856	7.00	-1.62	111198.848	.5	114209.000	.5
3321.2319	6.00	-1.61	84103.100	2.0	87113.210	2.0
3321.2430	17.01	-2.54	158786.400	3.0	161796.500	3.0
3321.3312	24.00	-4.90	33542.110	2.0	36552.130	3.0
3321.4967	14.00	-2.99	60704.530	3.0	63714.400	2.0
3321.7318	17.00	-2.63	92602.700	.5	95612.357	1.5
3321.7947	27.00	-3.83	49847.080	2.5	52856.680	3.5
3322.4460	26.01	-.09	84527.890	4.5	87536.900	3.5
3322.4780	14.00	-1.07	57372.297	2.0	60381.278	1.0
3322.5321	20.00	-2.06	45425.358	1.0	48434.290	2.0
3322.5675	25.00	-2.31	59470.140	3.5	62479.040	4.5
3322.7663	28.01	-1.20	134527.240	3.5	137535.960	3.5
3322.9761	6.00	-1.78	80782.510	1.0	83791.040	2.0
3323.5848	28.00	-3.38	49032.589	2.0	52040.568	2.0
3323.7362	14.00	-.86	60706.558	1.0	63714.400	2.0
3323.7384	27.00	-4.21	49025.420	1.5	52033.260	1.5
3323.9926	23.00	-3.84	33976.020	1.5	36983.630	1.5
3324.0921	24.00	-1.69	41043.350	3.0	44050.870	4.0
3324.1915	28.01	-4.60	93528.440	3.5	96535.870	3.5
3324.5011	14.00	-2.42	60856.630	1.0	63863.780	2.0
3324.6249	26.00	-3.77	45509.112	1.0	48516.150	1.0
3324.9876	22.00	-1.14	41368.860	4.0	44375.570	5.0
3325.0207	28.01	-4.98	92325.850	3.5	95332.530	2.5
3325.2143	26.00	-4.99	34039.495	4.0	37046.000	4.0
3325.2972	21.00	-4.98	34480.050	2.5	37486.480	1.5
3325.9389	6.00	-3.29	86965.450	2.0	89971.300	3.0
3326.4623	26.00	-4.84	47693.289	3.0	50698.666	2.0
3326.5697	14.00	-1.79	59221.110	0.0	62226.390	1.0
3326.6583	13.01	-2.13	142179.800	1.0	145185.000	0.0
3326.6583	13.01	-1.74	142179.800	1.0	145185.000	1.0
3326.6583	13.01	-1.43	142179.800	1.0	145185.000	2.0
3327.0391	7.00	-2.61	111285.644	1.5	114290.500	2.5
3327.3225	13.01	-1.32	143269.800	3.0	146274.400	2.0
3327.5108	25.00	-3.66	59290.230	3.5	62294.660	3.5
3327.5408	17.00	-2.31	97184.277	3.5	100188.680	4.5
3328.0093	18.01	-2.94	211663.500	3.5	214667.480	2.5
3328.0536	28.01	.46	134527.240	3.5	137531.180	4.5
3328.1755	28.01	-4.98	115870.280	2.5	118874.110	3.5
3328.2088	13.01	-1.55	145128.900	3.0	148132.700	2.0
3328.3084	6.00	-3.70	78340.280	1.0	81343.990	2.0
3328.3893	18.00	-.92	114147.750	1.0	117151.387	1.0
3328.5744	6.00	-.80	80834.610	3.0	83838.080	2.0
3328.9480	18.00	-.84	118651.447	1.0	121654.580	2.0
3328.9956	17.00	-3.18	91660.580	2.5	94663.670	1.5
3329.0100	20.00	-4.17	44762.620	2.0	47765.697	3.0
3329.1286	26.00	-4.65	47420.215	5.0	50423.185	4.0
3329.2528	20.00	-2.62	44762.839	3.0	47765.697	3.0
3329.5621	20.00	-1.56	44763.118	4.0	47765.697	3.0
3329.9000	2.00	-.82	190940.000	0.0	193943.093	0.0
3330.0379	22.01	-2.84	67604.200	3.5	70606.350	2.5
3330.0601	9.00	-.04	130221.120	1.5	133223.250	.5
3330.2076	22.00	-2.09	34170.950	0.0	37172.947	1.0
3330.6037	21.00	-4.71	37553.340	2.5	40554.980	2.5
3330.7702	28.01	-4.02	115827.120	3.5	118828.610	2.5
3330.8589	7.00	-.13	107445.622	1.5	110447.032	1.5
3330.9255	6.00	-2.39	86965.450	2.0	89966.800	3.0
3331.0809	6.00	-2.19	86965.450	2.0	89966.660	2.0
3331.1487	17.00	-2.91	97184.277	3.5	100185.426	2.5
3331.2918	6.00	-.82	83497.620	2.0	86498.640	2.0
3331.3140	15.00	-3.93	78069.000	1.5	81070.000	1.5
3331.3917	6.00	-2.76	83497.620	2.0	86498.550	1.0
3332.3689	6.00	-.60	78104.980	0.0	81105.030	1.0
3332.4022	6.00	-4.36	84103.100	2.0	87103.120	1.0
3332.6167	14.00	-1.64	60487.103	1.0	63486.930	1.0
3332.8633	14.00	-3.85	61647.875	2.0	64647.480	3.0
3332.8688	15.01	-1.46	127950.600	2.0	130950.200	2.0
3332.9911	28.01	-1.19	134527.240	3.5	137526.730	2.5
3333.0688	14.00	-3.49	61647.360	1.0	64646.780	2.0
3333.2689	10.00	-.49	163657.268	1.0	166656.508	1.0
3333.6412	14.00	-2.76	61647.875	2.0	64646.780	2.0
3334.3139	18.01	-4.75	211669.180	2.5	214667.480	2.5
3334.4474	14.02	.62	254855.420	3.0	257853.600	4.0
3334.4474	14.02	.76	254855.420	3.0	257853.600	4.0
3334.5697	6.00	.12	81105.030	1.0	84103.100	2.0
3334.7588	28.01	-2.32	114874.880	2.5	117872.780	2.5
3334.8233	7.00	-1.87	111165.158	1.5	114163.000	1.5
3335.2350	10.00	.34	162830.703	3.0	165828.175	2.0
3335.2628	22.00	-2.20	34327.960	1.0	37325.407	2.0
3335.3373	22.00	-1.39	36200.940	5.0	39198.320	6.0
3335.6267	6.00	-2.40	84116.090	1.0	87113.210	2.0
3336.2166	28.01	-.82	134539.370	2.5	137535.960	3.5
3336.5729	28.01	.59	134527.240	3.5	137523.510	3.5
3336.7077	18.00	-4.14	121653.400	4.0	124649.549	3.0
3336.8736	29.01	-4.84	135902.430	0.0	138898.430	1.0
3336.9627	22.00	-1.23	41585.240	3.0	44581.160	2.0
3337.1755	7.00	-1.93	111213.271	1.5	114209.000	.5
3337.7649	8.01	-.98	257963.800	2.5	260959.000	1.5
3337.8763	13.01	.29	146274.400	2.0	149269.500	3.0
3338.1071	17.00	-.13	92602.700	.5	95597.593	.5
3338.1639	7.00	-1.84	111165.158	1.5	114160.000	1.5
3338.1639	7.00	-.91	111165.158	1.5	114160.000	2.5
3338.3601	20.00	-2.65	44762.620	2.0	47757.286	2.0
3338.3890	24.00	-3.68	41086.260	3.0	44080.900	2.0
3338.6042	20.00	-1.75	44762.839	3.0	47757.286	2.0
3338.8997	7.00	-.02	107253.106	2.5	110247.288	3.5
3338.9331	7.00	-.92	111198.848	.5	114193.000	1.5
3339.0692	21.00	-3.67	32751.540	3.5	35745.570	2.5
3339.0904	14.00	-.52	58311.659	0.0	61305.670	1.0
3339.8233	12.00	-1.46	58023.246	2.0	61016.600	2.0
3339.8233	12.00	-1.13	58023.246	2.0	61016.600	3.0
3339.8233	12.00	-.60	58023.246	2.0	61016.600	3.0
3340.1290	14.02	.07	254855.420	3.0	257848.500	2.0
3340.1848	28.01	-3.97	128803.230	2.5	131796.260	2.5
3340.2607	14.00	-1.61	57017.496	2.0	60010.458	1.0
3340.2886	14.00	-.94	54205.090	2.0	57198.027	3.0
3340.6871	26.00	-3.17	51619.140	3.0	54611.720	2.0
3340.7429	22.00	-3.20	41087.310	3.0	44079.840	2.0
3340.9104	6.00	-1.70	84851.530	1.0	87843.910	1.0
3340.9483	17.00	-3.47	95700.874	3.5	98693.220	2.5
3341.1560	28.01	-4.82	133209.300	2.5	136201.460	3.5
3341.1794	17.00	-2.04	95700.874	3.5	98693.013	3.5
3341.3459	28.01	.34	134527.240	3.5	137519.230	2.5
3341.3526	7.00	-1.21	111204.016	2.5	114196.000	2.5
3341.4699	14.00	-3.50	61303.381	3.0	64295.260	3.0
3341.6809	27.00	-4.33	50712.450	2.5	53704.140	2.5
3342.2842	29.01	-3.62	135990.150	3.0	138981.300	2.0
3342.4295	23.00	-2.75	35012.910	.5	38003.930	1.5
3342.5300	29.01	-2.23	117928.480	1.0	120919.410	1.0
3342.6306	18.00	-4.35	123220.730	2.0	126211.570	1.0
3342.7312	10.00	-1.42	169839.450	1.0	172830.200	2.0
3342.8989	15.00	-1.86	72493.800	1.5	75484.400	2.5
3342.9302	14.00	-2.31	60496.358	2.0	63486.930	1.0
3343.3349	14.00	-4.67	61305.050	3.0	64295.260	3.0
3343.5306	20.00	-1.93	44762.620	2.0	47752.655	1.0
3343.7374	10.00	-1.77	169839.450	1.0	172829.300	1.0
3343.7598	6.00	-2.11	85625.180	0.0	88615.010	1.0
3343.8269	6.00	-.57	80801.270	2.0	83791.040	2.0
3343.9734	26.00	-4.52	48304.623	2.0	51294.262	3.0
3344.7062	7.00	-3.19	111204.016	2.5	114193.000	1.5
3344.8080	14.00	-4.21	61562.477	3.0	64551.370	4.0
3345.1528	26.00	-4.79	48361.920	4.0	51350.505	4.0
3345.1953	14.00	-3.27	61306.713	4.0	64295.260	3.0
3345.3039	10.00	-2.50	169839.450	1.0	172827.900	2.0
3345.4091	7.00	-1.43	111285.644	1.5	114274.000	2.5
3345.4830	6.00	-.20	78116.740	1.0	81105.030	1.0
3345.6509	23.00	-1.93	37075.640	4.5	40063.780	5.5
3345.7965	14.00	-1.80	60856.630	1.0	63844.640	0.0
3345.8906	18.00	-1.88	122086.974	2.0	125074.900	2.0
3345.9981	28.01	-4.06	95573.390	3.5	98561.220	2.5
3346.2780	6.00	-3.73	86362.520	1.0	89350.100	2.0
3346.4595	14.00	-2.64	61563.952	4.0	64551.370	4.0
3346.4752	7.00	-2.04	111271.596	.5	114259.000	1.5
3346.5245	28.01	-.51	134539.370	2.5	137526.730	2.5
3346.7855	7.00	-.89	111260.873	3.5	114248.000	3.5
3346.8942	6.00	-2.17	84116.090	1.0	87103.120	1.0
3346.9390	29.01	-.96	136754.110	2.0	139741.100	3.0
3347.0074	22.00	-3.36	31184.021	1.0	34170.950	0.0
3347.2640	25.00	-4.41	59527.890	1.5	62514.590	2.5
3347.4545	28.01	-4.73	133973.330	2.5	136959.860	2.5
3347.5554	29.01	-3.86	136133.060	4.0	139119.500	3.0
3347.5633	7.00	-1.62	111143.567	.5	114130.000	.5
3347.5778	10.00	-1.24	169843.820	2.0	172830.240	3.0
3347.6227	10.00	-3.41	169843.820	2.0	172830.200	2.0
3348.1048	19.00	-.59	31695.890	2.5	34681.840	1.5
3348.3481	17.00	-2.68	97184.277	3.5	100170.010	2.5
3348.3963	19.00	-1.55	31696.150	1.5	34681.840	1.5
3348.3963	19.00	-.85	31696.150	1.5	34681.840	.5
3348.4681	18.00	-2.94	122086.974	2.0	125072.600	1.0
3348.5387	17.00	-2.02	97184.277	3.5	100169.840	3.5
3348.6318	6.00	-2.23	78340.280	1.0	81325.760	1.0
3348.6318	10.00	-3.36	169843.820	2.0	172829.300	1.0
3348.6487	26.00	-2.40	48163.427	2.0	51148.892	2.0
3348.9908	6.00	-.59	83497.620	2.0	86482.780	2.0
3349.0357	10.00	-2.70	169839.450	1.0	172824.570	0.0
3349.1255	6.00	-.70	83497.620	2.0	86482.660	3.0
3349.8033	7.00	-.27	111260.873	3.5	114245.309	4.5
3349.8538	7.00	-2.31	111905.609	2.5	114890.000	1.5
3350.1355	28.01	-.06	134539.370	2.5	137523.510	3.5
3350.2029	10.00	-1.57	169843.820	2.0	172827.900	2.0
3350.5756	22.00	-2.23	36132.210	4.0	39115.958	4.0
3350.9665	10.00	-2.09	169843.820	2.0	172827.220	3.0
3351.1327	10.00	-1.74	159534.620	1.0	162517.872	1.0
3351.4326	14.00	-3.54	60962.105	2.0	63945.090	3.0
3351.4866	26.00	-2.59	44022.518	4.0	47005.455	5.0
3351.7203	7.00	-2.69	111213.271	1.5	114196.000	2.5
3351.7754	17.00	-.81	91680.990	1.5	94663.670	1.5
3352.0226	24.00	-4.13	41086.260	3.0	44068.720	3.0
3352.2249	9.00	.22	130016.100	2.5	132998.380	1.5
3352.2474	27.00	-4.14	48217.320	3.5	51199.580	3.5
3352.4689	14.00	-.26	54313.818	1.0	57295.881	0.0
3352.6071	17.00	-1.77	97184.277	3.5	100166.217	3.5
3352.6521	6.00	-2.02	84121.220	0.0	87103.120	1.0
3352.9332	26.00	-4.77	51630.070	2.0	54611.720	2.0
3352.9557	10.00	-2.25	169843.820	2.0	172825.450	1.0
3353.2515	7.00	-2.14	111165.158	1.5	114146.525	2.5
3353.2582	17.00	-1.13	97184.277	3.5	100165.638	4.5
3353.5688	10.00	-3.88	169488.415	1.0	172469.500	2.0
3353.6530	6.00	-2.59	84851.530	1.0	87832.540	2.0
3354.1628	17.00	-3.19	94827.150	2.5	97807.707	2.5
3354.2270	6.00	-2.43	86369.600	2.0	89350.100	2.0
3354.5342	26.00	-2.71	48238.832	2.0	51219.059	3.0
3354.9473	28.01	.35	134539.370	2.5	137519.230	2.5
3355.0948	7.00	-1.87	111213.271	1.5	114193.000	1.5
3355.1951	26.00	-4.95	57697.590	4.0	60677.230	5.0
3355.3189	10.01	-4.27	319095.810	2.5	322075.340	3.5
3355.4203	25.01	-4.82	73395.120	3.0	76374.560	2.0
3355.5216	25.00	-3.91	56490.790	2.5	59470.140	3.5
3356.2088	6.00	-4.60	86469.660	4.0	89448.400	3.0
3356.3215	6.00	-1.22	84851.530	1.0	87830.170	1.0
3356.4342	23.00	-2.35	36983.630	1.5	39962.170	2.5
3356.4905	20.02	-4.96	370901.880	2.0	373880.370	3.0
3357.0608	7.00	-1.52	111204.016	2.5	114182.000	2.5
3357.1668	6.00	-4.27	86469.510	3.0	89447.400	2.0
3357.8885	20.02	-3.67	370903.120	3.0	373880.370	3.0
3358.3960	15.00	-2.24	76425.200	2.5	79402.000	2.5
3358.8474	13.01	-.70	146276.500	3.0	149252.900	3.0
3358.8474	13.01	.68	146276.500	3.0	149252.900	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3358.8474	13.01	-2.27	146276.500	3.0	149252.900	4.0
3359.2424	27.00	-4.37	49484.050	3.5	52460.100	2.5
3359.3553	22.00	-4.43	43674.310	4.0	46650.260	3.0
3359.4547	14.00	-1.42	60010.458	1.0	62986.320	2.0
3359.6149	29.01	-.33	136765.380	4.0	139741.100	3.0
3359.7730	23.00	-2.80	37025.600	3.5	40001.180	3.5
3359.8610	14.00	-1.94	60010.458	1.0	62985.960	1.0
3359.9085	18.01	-3.10	200032.230	1.5	203007.690	1.5
3360.3602	11.00	-2.19	37296.320	.5	40271.380	.5
3360.4710	14.00	-1.31	60381.278	1.0	63356.240	2.0
3360.7330	27.00	-4.67	46223.010	4.5	49197.740	4.5
3361.1285	24.00	-3.92	52012.440	2.0	54986.820	3.0
3361.2302	23.00	-2.81	37025.600	3.5	39999.890	2.5
3361.2381	7.00	-1.35	104654.000	.5	107628.283	1.5
3361.3771	21.00	-4.47	32696.840	2.5	35671.000	1.5
3361.5207	37.00	-2.06	28687.127	0.0	31661.971	0.0
3361.5241	28.01	-1.58	128822.230	1.5	131796.260	2.5
3361.8179	11.00	-1.89	37297.610	1.5	40271.380	.5
3361.9457	10.00	-.63	167559.060	3.0	170532.717	2.0
3362.1458	24.00	-4.28	33060.740	3.0	36034.220	3.0
3362.2861	7.00	-2.03	111285.644	1.5	114259.000	1.5
3362.6559	7.00	-1.14	104615.440	1.5	107588.469	.5
3362.6887	10.01	.76	319095.520	3.5	322068.520	4.5
3362.7226	23.00	-3.00	36989.200	2.5	39962.170	2.5
3362.8855	18.00	-4.02	122086.974	2.0	125059.800	2.0
3362.9601	25.00	-4.34	59600.350	2.5	62573.110	1.5
3363.1412	23.00	-4.94	39391.020	4.5	42363.620	3.5
3363.6617	9.00	.22	129772.830	2.5	132744.970	1.5
3363.7183	26.02	-2.94	202030.380	3.0	205002.470	3.0
3363.7398	14.00	-1.20	57328.789	1.0	60300.860	2.0
3363.8881	6.00	-2.97	86327.160	3.0	89299.100	3.0
3363.9446	6.00	.10	83497.620	2.0	86469.510	3.0
3364.0805	37.00	-1.11	28689.390	0.0	31661.970	0.0
3364.1371	7.00	-.38	111204.016	2.5	114175.736	3.5
3364.1450	22.00	-4.85	39152.057	5.0	42123.770	6.0
3364.2005	11.00	-1.20	35040.380	.5	38012.044	.5
3364.2163	26.00	-4.89	49242.680	2.0	52214.330	1.0
3364.9071	10.01	-4.95	319095.810	2.5	322066.850	3.5
3365.1913	26.00	-3.98	45333.834	2.0	48304.623	2.0
3365.2582	6.00	-2.85	78340.280	1.0	81311.010	0.0
3365.2808	22.00	-4.74	38544.380	3.0	41515.090	4.0
3365.3341	14.00	-1.47	45293.629	2.0	48264.292	3.0
3365.8643	20.00	-3.73	40537.893	3.0	43508.088	4.0
3365.8700	24.00	-4.46	30965.460	3.0	33935.650	2.0
3366.1000	3.01	-.44	558779.000	0.0	561749.797	0.0
3366.1986	6.00	-.57	80782.510	1.0	83752.410	1.0
3366.5047	22.00	-7.15	14105.680	3.0	17075.310	4.0
3366.7428	24.00	-4.38	30965.460	3.0	33934.880	3.0
3366.7882	14.00	-4.47	61647.360	1.0	64616.740	2.0
3366.9991	11.00	-.90	35042.850	1.5	38012.044	.5
3367.0943	28.01	-4.39	128827.150	3.5	131796.260	2.5
3367.1510	25.00	-4.62	59784.310	3.5	62753.370	2.5
3367.1624	18.00	-3.32	122514.290	1.0	125483.340	2.0
3367.3722	14.00	-3.60	61647.875	2.0	64616.740	2.0
3367.5265	7.00	-.90	111213.271	1.5	114182.000	2.5
3367.7783	10.00	-1.19	168355.510	1.0	171324.017	1.0
3367.9201	12.00	-2.41	56968.248	2.0	59936.630	1.0
3368.3309	22.00	-1.18	41194.420	3.0	44162.440	4.0
3368.4898	18.01	-.49	202253.590	1.5	205221.470	1.5
3369.0233	18.01	-.94	186470.280	1.5	189437.690	.5
3369.1482	15.00	-3.43	72386.100	2.5	75353.400	1.5
3369.3163	12.00	-2.96	56968.218	3.0	59935.370	2.0
3369.3163	12.00	-1.63	56968.218	3.0	59935.370	3.0
3369.3163	12.00	-1.83	56968.218	3.0	59935.370	3.0
3369.3163	12.00	-.35	56968.218	3.0	59935.370	4.0
3369.3503	12.00	-1.59	56968.248	2.0	59935.370	2.0
3369.3503	12.00	-.73	56968.248	2.0	59935.370	3.0
3369.3503	12.00	-1.45	56968.248	2.0	59935.370	3.0
3369.3765	12.00	-.69	56968.271	1.0	59935.370	2.0
3369.4434	29.01	-2.88	136014.260	2.0	138981.300	2.0
3369.4877	7.00	-1.63	107253.106	2.5	110220.107	1.5
3369.8034	37.00	-1.38	28687.127	0.0	31654.659	0.0
3370.0341	18.01	-1.77	186074.350	2.5	189040.870	1.5
3370.0681	28.01	-3.26	115956.710	2.5	118923.200	3.5
3370.2203	14.00	-3.38	59190.460	1.0	62156.816	2.0
3370.8329	10.00	-.95	167591.233	2.0	170557.050	1.0
3370.9101	7.00	-2.08	111060.905	.5	114026.654	.5
3370.9158	14.00	-2.60	59191.072	2.0	62156.816	2.0
3370.9203	6.00	-4.64	86482.660	3.0	89448.400	3.0
3371.0568	6.00	-4.83	86482.780	2.0	89448.400	3.0
3371.3216	10.00	-1.48	168358.630	1.0	171324.017	1.0
3371.3296	19.00	-1.72	30606.730	2.5	33572.110	1.5
3371.3864	19.00	-1.56	30606.730	3.5	33572.060	2.5
3371.3864	19.00	-2.86	30606.730	2.5	33572.060	2.5
3371.6934	6.00	-1.89	86416.550	1.0	89381.610	0.0
3371.8982	6.00	.26	80782.510	1.0	83747.390	2.0
3371.9414	7.00	-1.63	111165.158	1.5	114130.000	.5
3372.0574	6.00	-4.92	86482.660	3.0	89447.400	2.0
3372.1939	6.00	-4.41	86482.780	2.0	89447.400	2.0
3372.2849	6.00	-1.83	87002.260	3.0	89966.800	3.0
3372.3190	23.00	-4.68	34019.120	1.5	36983.630	1.5
3372.4441	6.00	-2.73	87002.260	3.0	89966.660	2.0
3372.6842	17.00	-1.31	99269.121	2.5	102233.310	2.5
3372.6911	7.00	-1.27	104664.100	1.5	107628.283	1.5
3372.7263	7.00	-1.69	111198.848	.5	114163.000	1.5
3372.9448	6.00	.79	80834.610	3.0	83798.570	4.0
3373.2384	7.00	-1.17	111326.798	2.5	114290.500	2.5
3373.4683	13.01	-1.73	145126.500	2.0	148090.000	2.0
3373.4683	13.01	-.99	145126.500	2.0	148090.000	1.0
3373.4683	13.01	-3.27	145126.500	2.0	148090.000	3.0
3373.4797	28.01	-4.55	133973.330	2.5	136936.820	3.5
3373.6835	26.00	-2.72	51148.892	2.0	54112.203	2.0
3373.6846	23.00	-2.86	37075.640	4.5	40038.950	4.5
3373.9237	15.01	-1.58	127950.600	2.0	130913.700	3.0
3374.2061	26.00	-2.60	44415.057	4.0	47377.909	4.0
3374.5160	18.01	-1.95	200234.860	2.5	203197.440	3.5
3374.5160	14.00	-1.99	60621.640	0.0	63584.220	1.0
3376.0087	6.00	-2.85	84116.090	1.0	87077.360	0.0
3376.1022	7.00	-.50	104221.600	1.5	107182.788	1.5
3376.1433	7.00	-1.22	111198.848	.5	114160.000	1.5
3376.2026	13.01	-2.10	145128.900	3.0	148090.000	3.0
3376.2026	13.01	-1.19	145128.900	3.0	148090.000	2.0
3376.2254	25.00	-4.21	59339.550	3.5	62300.630	4.5
3376.2824	22.00	-2.05	44233.650	3.0	47194.680	4.0
3376.3838	13.00	-.48	42233.722	1.5	45194.663	2.5
3376.3872	10.00	-4.16	169508.562	2.0	172469.500	2.0
3376.3872	10.00	-3.00	169508.562	2.0	172469.500	3.0
3376.6359	6.00	-3.63	86389.380	2.0	89350.100	2.0
3376.7681	7.00	-2.69	111271.596	.5	114232.200	1.5
3377.0351	14.00	-2.31	61423.230	3.0	64383.600	4.0
3377.4686	23.00	-3.12	34065.610	2.5	37025.600	3.5
3377.4687	6.00	.51	80801.270	2.0	83761.260	3.0
3377.8532	14.00	-.63	59636.667	1.0	62596.320	2.0
3378.2675	7.00	-.87	107253.106	2.5	110212.396	2.5
3378.3475	29.01	-3.96	116080.460	3.0	119039.680	2.0
3378.6169	7.00	-1.57	111204.016	2.5	114163.000	1.5
3378.9184	27.00	-4.42	49197.740	4.5	52156.460	4.5
3378.9983	28.01	-3.20	116838.330	1.5	119796.980	2.5
3379.1582	28.01	-3.04	133715.130	4.5	136673.640	4.5
3379.2668	14.00	-2.45	59273.575	1.0	62231.990	2.0
3379.3638	28.01	-4.77	115870.280	2.5	118828.610	2.5
3379.3753	22.00	-2.19	44079.840	2.0	47038.160	3.0
3379.5123	15.00	-4.01	72741.600	1.5	75699.800	.5
3379.5581	18.01	-3.33	208803.240	4.5	211761.400	3.5
3379.5809	18.01	-4.97	208803.240	4.5	211761.380	4.5
3379.5809	18.01	-3.24	208803.240	5.5	211761.380	4.5
3379.8551	13.01	-.66	145132.100	4.0	148090.000	3.0
3380.0379	21.00	-4.42	33615.060	1.5	36572.800	2.5
3380.2551	6.00	-.31	80782.510	1.0	83740.060	0.0
3380.4722	10.00	-1.49	168355.510	1.0	171312.870	0.0
3380.9524	6.00	-.21	78148.090	2.0	81105.030	1.0
3381.0187	13.00	-.33	42237.781	2.5	45194.663	3.5
3381.0187	13.00	-1.63	42237.781	2.5	45194.663	2.5
3381.3641	18.00	-4.83	123254.990	1.0	126211.570	1.0
3381.5356	6.00	.28	80834.610	3.0	83791.040	2.0
3381.6386	25.00	-2.40	59470.140	3.5	62426.480	3.5
3381.8422	26.00	-3.37	40207.120	3.0	43163.282	4.0
3381.9246	29.01	-2.32	136754.110	2.0	139710.200	2.0
3382.0069	26.00	-2.97	45333.834	2.0	48289.852	1.0
3382.0458	7.00	-4.61	111204.016	2.5	114160.000	1.5
3382.0458	7.00	-4.53	111204.016	2.5	114160.000	2.5
3382.0973	7.00	-2.31	111853.061	1.5	114809.000	.5
3382.2666	17.00	-2.17	96313.330	1.5	99269.121	2.5
3382.3319	7.00	-1.92	107445.622	1.5	110401.356	2.5
3382.4624	22.00	-2.55	25926.820	4.0	28882.440	3.0
3382.7485	28.01	-3.89	134607.370	4.5	137562.740	3.5
3383.0461	25.00	-4.15	59339.550	3.5	62294.660	3.5
3383.0576	24.00	-3.64	52031.720	3.0	54986.820	3.0
3383.9107	14.00	-1.34	60815.925	2.0	63770.280	1.0
3384.0424	10.00	-1.18	168358.630	1.0	171312.870	0.0
3384.3563	14.00	-3.96	61597.404	3.0	64551.370	4.0
3384.5923	21.00	-3.89	37717.110	3.5	40670.870	4.5
3384.7871	23.00	-3.82	34030.040	1.5	36983.630	1.5
3385.1665	17.00	-.89	99269.121	2.5	102222.380	3.5
3385.6698	27.00	-3.03	48217.320	3.5	51170.140	4.5
3385.6755	14.00	-2.04	59273.575	1.0	62226.390	1.0
3385.7386	28.01	-.57	134583.070	6.5	137535.830	5.5
3385.8923	18.00	-1.91	122086.974	2.0	125039.600	1.0
3386.0252	10.00	-3.65	169516.990	1.0	172469.500	2.0
3386.1422	20.00	-3.82	44804.878	3.0	47757.286	2.0
3386.2661	6.00	-3.28	86397.800	3.0	89350.100	2.0
3386.2776	27.00	-1.66	45876.580	2.5	48828.870	2.5
3386.5931	18.00	-2.31	119683.113	2.0	122635.128	2.0
3386.9545	17.01	-4.38	144174.000	3.0	147125.700	3.0
3387.2528	23.00	-3.66	36983.630	1.5	39935.070	1.5
3387.3699	22.00	-4.77	33114.412	2.0	36065.750	3.0
3387.4984	20.00	-4.33	40537.893	3.0	43489.119	3.0
3387.5971	6.00	.03	80801.270	2.0	83752.410	1.0
3387.6235	22.00	-2.09	36200.940	5.0	39152.057	5.0
3388.0334	27.00	-4.37	48317.170	3.5	51267.930	4.5
3388.2665	18.00	-5.00	121653.400	3.0	124603.957	2.0
3388.4089	17.00	-4.77	92194.190	1.5	95144.623	2.5
3388.5616	8.03	-1.26	593708.000	2.5	596658.300	2.5
3388.6995	28.01	-4.23	130900.650	2.5	133850.830	3.5
3388.9326	18.00	-3.90	123261.593	2.0	126211.570	1.0
3389.0556	28.01	-4.98	131103.180	2.5	134053.050	2.5
3389.0889	7.00	-1.17	107445.622	1.5	110395.463	1.5
3389.1912	10.00	-4.36	167026.988	1.0	169976.740	0.0
3389.2164	9.00	-.71	130059.400	.5	133009.130	.5
3389.2175	7.00	-.99	111213.271	1.5	114163.000	1.5
3389.2624	26.02	-4.06	219655.550	2.0	222605.240	3.0
3389.4129	17.00	-2.16	99269.121	2.5	102218.680	2.5
3389.5267	27.00	-3.94	43425.710	2.5	46375.170	1.5
3389.5382	18.01	-4.82	209248.550	2.5	212198.000	3.5
3389.5612	22.00	-4.83	39662.150	1.0	42611.580	1.0
3389.7577	17.00	-2.78	99269.121	2.5	102218.380	1.5
3389.9807	10.00	-.19	163657.268	1.0	166606.333	0.0
3390.0554	29.01	-.86	138593.100	1.0	141542.100	2.0
3390.2279	29.01	-2.55	135934.150	5.0	138883.000	4.0
3390.2279	6.00	-4.98	86498.550	1.0	89447.400	2.0
3390.2624	6.00	-4.40	86482.660	3.0	89431.480	2.0
3390.3003	10.00	-.23	163707.721	1.0	166656.508	1.0
3390.3313	6.00	-4.92	86498.640	2.0	89447.400	2.0
3390.4003	6.00	-3.68	86482.780	2.0	89431.480	2.0
3390.4014	14.00	-2.48	61303.381	3.0	64252.080	2.0
3390.9730	7.00	-1.14	111326.798	2.5	114275.000	3.5
3391.3101	10.00	.19	163708.599	2.0	166656.508	1.0
3391.4010	18.00	-4.43	123254.990	1.0	126202.820	0.0
3391.4389	14.00	-4.81	61304.283	2.0	64252.080	2.0
3391.5505	13.01	-1.30	145185.000	1.0	148132.700	2.0
3391.6656	23.00	-3.29	34128.040	3.5	37075.640	4.5
3391.6656	15.00	-4.58	72741.600	1.5	75689.200	1.5
3391.7806	28.01	-3.85	128803.230	2.5	131750.730	3.5
3391.9993	22.00	-1.06	43583.140	3.0	46530.450	4.0
3392.1236	7.00	-1.21	111326.798	2.5	114274.000	2.5
3392.3216	14.00	-2.08	61305.050	3.0	64252.080	2.0
3392.3561	29.01	-2.39	133826.200	2.0	136773.200	1.0
3392.4828	19.00	-.68	31695.890	2.5	34642.780	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3392.6681	7.00	-2.60	111213.271	1.5	114160.000	1.5
3392.6681	7.00	-1.55	111213.271	1.5	114160.000	2.5
3392.7821	19.00	-1.63	31696.150	1.5	34642.780	1.5
3392.7821	19.00	-.94	31696.150	1.5	34642.780	.5
3392.8673	7.00	-1.32	111285.644	1.5	114232.200	1.5
3392.9548	24.00	-3.52	36212.150	4.0	39158.630	4.0
3393.0123	18.01	-4.70	209251.460	3.5	212197.890	4.5
3393.1621	28.01	.39	134583.070	6.5	137529.370	6.5
3393.3613	10.00	-4.68	168967.353	1.0	171913.480	0.0
3393.3694	6.00	-.39	80801.270	2.0	83747.390	2.0
3393.6458	29.01	-4.59	135952.550	2.0	138898.430	1.0
3393.6574	23.00	-2.98	36989.200	2.5	39935.070	1.5
3393.8763	25.00	-3.66	59480.800	2.5	62426.480	3.5
3393.8993	29.01	-2.48	136035.640	3.0	138981.300	2.0
3393.9581	28.00	-2.60	44262.619	2.0	47208.228	1.0
3393.9627	17.00	-4.25	94314.206	1.5	97259.811	1.5
3394.3407	10.00	-.78	168378.740	2.0	171324.017	1.0
3394.3683	7.00	-3.48	104683.030	2.5	107628.283	1.5
3394.4294	27.00	-4.34	48615.560	2.5	51560.760	2.5
3395.1879	14.00	-2.00	60010.458	1.0	62955.000	2.0
3395.4497	14.00	-.15	60815.925	2.0	63760.240	3.0
3395.5592	17.00	-3.11	85244.330	.5	88188.550	1.5
3395.6331	28.00	-1.53	49327.560	3.0	52271.716	2.0
3395.7657	14.00	-1.10	59506.359	2.0	62450.400	1.0
3396.1176	17.00	-1.44	91538.500	1.5	94482.236	2.5
3396.2005	12.00	-.51	46403.065	2.0	49346.729	1.0
3396.4360	14.00	-1.49	60042.500	0.0	62985.960	1.0
3396.5514	10.01	-3.42	277325.600	1.5	280268.960	2.5
3396.6991	10.00	-4.41	169526.268	2.0	172469.500	2.0
3396.6991	10.00	-3.52	169526.268	2.0	172469.500	3.0
3396.9011	8.00	-1.99	105788.443	1.0	108731.500	0.0
3396.9011	8.00	-1.64	105788.443	1.0	108731.500	1.0
3396.9011	8.00	-1.75	105788.443	1.0	108731.500	2.0
3397.0707	26.01	-.90	84527.890	4.5	87470.800	4.5
3397.0903	8.00	-2.12	105788.607	2.0	108731.500	1.0
3397.0903	8.00	-1.53	105788.607	2.0	108731.500	2.0
3397.0903	8.00	-1.32	105788.607	2.0	108731.500	3.0
3397.1954	18.00	-3.08	119847.810	1.0	122790.612	0.0
3397.1989	17.00	-1.53	97259.811	1.5	100202.610	1.5
3397.3916	8.00	-2.47	105788.868	3.0	108731.500	2.0
3397.3916	8.00	-1.62	105788.868	3.0	108731.500	3.0
3397.3916	8.00	-1.04	105788.868	3.0	108731.500	4.0
3397.4113	10.00	-4.86	169526.885	3.0	172469.500	3.0
3397.4113	10.00	-4.28	169526.885	3.0	172469.500	3.0
3397.4113	10.00	-3.42	169526.885	3.0	172469.500	4.0
3397.4990	17.00	-1.71	97259.811	1.5	100202.350	.5
3397.5337	7.00	-1.18	111204.016	2.5	114146.525	2.5
3397.6088	14.00	-.55	45321.848	3.0	48264.292	3.0
3397.6711	28.01	-1.25	128853.870	2.5	131796.260	2.5
3398.1330	18.01	-4.63	199525.150	1.5	202467.140	1.5
3398.3410	10.01	-4.62	276276.850	1.5	279218.660	2.5
3398.6437	7.00	-4.65	107253.106	2.5	110194.654	1.5
3398.7176	10.00	-1.26	167591.233	2.0	170532.717	2.0
3399.0111	28.01	-3.25	115956.710	2.5	118897.940	2.5
3399.2422	28.01	-3.13	101357.200	4.5	104298.230	4.5
3399.3232	23.00	-3.86	39422.660	2.5	42363.620	3.5
3399.9185	14.00	0.00	54257.582	3.0	57198.027	3.0
3400.2330	7.00	-1.14	107445.622	1.5	110385.795	.5
3400.4112	14.00	.16	54528.220	2.0	57468.239	2.0
3400.4343	14.00	-4.74	61303.381	3.0	64243.380	2.0
3400.4678	29.01	-4.04	135958.460	1.0	138898.430	1.0
3400.9074	27.00	-2.05	43435.580	.5	46375.170	1.5
3401.0034	26.00	-4.36	45281.816	2.0	48221.323	1.0
3401.4975	14.00	-1.92	56978.256	1.0	59917.336	2.0
3401.5207	28.01	-4.65	115870.280	2.5	118809.340	1.5
3401.6133	9.00	-2.61	130059.400	.5	132998.380	1.5
3401.7753	28.01	-3.86	128732.030	1.5	131670.870	2.5
3401.8216	13.01	-.73	143170.000	1.0	146108.800	1.0
3401.8216	13.01	-.42	143170.000	2.0	146108.800	1.0
3401.8216	13.01	-1.12	143170.000	0.0	146108.800	1.0
3401.8448	28.01	-4.94	118379.110	2.5	121317.890	3.5
3402.0301	18.01	-1.52	200406.360	.5	203344.980	1.5
3402.2847	28.01	.56	134597.430	5.5	137535.830	5.5
3402.3658	14.00	-2.60	61305.050	3.0	64243.380	2.0
3402.6321	6.00	-1.05	84851.530	1.0	87789.630	1.0
3403.4384	7.00	-2.04	111271.596	.5	114209.000	.5
3403.4430	15.00	-4.67	78132.600	.5	81070.000	1.5
3403.6284	14.00	-2.03	60704.530	3.0	63641.770	3.0
3403.6747	29.01	-2.98	148482.000	3.0	151419.200	3.0
3403.7906	29.01	-2.03	117747.450	3.0	120684.550	3.0
3403.9065	29.01	-1.42	136773.200	1.0	139710.200	2.0
3403.9065	14.00	-1.77	61614.370	5.0	64551.370	4.0
3404.0688	27.00	-3.17	42988.120	3.5	45924.980	3.5
3404.4049	23.00	-4.27	37025.600	3.5	39962.170	2.5
3404.4165	28.01	1.10	134583.070	6.5	137519.630	7.5
3404.4281	20.01	.85	80521.530	1.5	83458.080	2.5
3404.4861	15.00	-2.73	78133.500	2.5	81070.000	1.5
3404.5904	28.01	-4.71	101144.630	3.5	104081.040	4.5
3405.0659	9.00	.39	129659.500	3.5	132595.500	2.5
3405.4486	25.00	-2.75	59817.700	2.5	62753.370	2.5
3405.6227	27.00	-4.32	52014.450	1.5	54949.970	1.5
3406.0787	7.00	-4.32	111260.873	3.5	114196.000	2.5
3406.0903	20.00	-1.19	44989.830	2.0	47924.947	3.0
3406.2260	24.00	-4.77	44050.870	4.0	46985.870	5.0
3406.2957	7.00	-4.40	112967.060	4.5	115902.000	3.5
3406.4929	6.00	.32	80562.850	1.0	83497.620	2.0
3406.5162	29.01	-1.20	133984.600	3.0	136919.350	3.0
3406.8424	7.00	-1.04	104654.000	.5	107588.469	.5
3406.8470	14.00	-2.45	60815.925	2.0	63750.390	1.0
3406.9643	14.00	-1.75	60848.946	4.0	63783.310	4.0
3407.1548	14.00	-3.43	61617.170	4.0	64551.370	4.0
3407.2708	15.00	-.76	76762.400	.5	79696.500	1.5
3407.3638	25.00	-4.02	56356.210	3.5	59290.230	3.5
3407.6774	28.01	-.15	134597.430	5.5	137531.180	4.5
3407.7529	11.00	-.20	30266.990	.5	33200.675	.5
3407.9097	6.00	-1.41	86416.550	1.0	89350.100	2.0
3407.9677	7.00	-4.57	112953.500	4.5	115887.000	3.5
3408.0607	6.00	-3.53	85625.180	0.0	88558.600	1.0
3408.2001	6.00	-4.42	84032.150	1.0	86965.450	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3408.3163	30.02	-2.56	300008.700	1.0	302941.900	2.0
3408.4325	13.01	-2.48	144638.900	1.0	147572.000	1.0
3408.4325	13.01	-2.27	144638.900	1.0	147572.000	0.0
3408.4325	13.01	-3.57	144638.900	1.0	147572.000	2.0
3408.4325	13.01	-2.01	144638.900	2.0	147572.000	1.0
3408.4325	13.01	-2.40	144638.900	2.0	147572.000	2.0
3408.4325	13.01	-1.65	144638.900	3.0	147572.000	2.0
3408.5209	14.00	-.64	60848.946	4.0	63781.970	5.0
3408.6068	22.00	-9.35	14028.470	2.0	16961.420	3.0
3408.6301	6.00	-2.69	79318.780	1.0	82251.710	0.0
3408.6301	6.00	-4.79	86498.550	1.0	89431.480	2.0
3408.6417	28.01	1.04	135956.010	5.5	138888.930	6.5
3408.7347	6.00	-4.87	86498.640	2.0	89431.480	2.0
3409.1880	27.00	-4.30	52014.450	1.5	54946.900	2.5
3409.1915	26.00	-3.47	49135.003	3.0	52067.450	2.0
3409.3834	18.00	-2.17	121932.908	1.0	124865.190	2.0
3409.4763	7.00	-3.25	111326.798	2.5	114259.000	1.5
3409.5357	20.00	-1.09	44989.830	2.0	47921.981	3.0
3409.7810	28.01	.91	134597.430	5.5	137529.370	6.5
3409.8043	20.01	1.01	80526.160	2.5	83458.080	3.5
3409.8043	20.01	-.29	80526.160	2.5	83458.080	2.5
3409.8624	15.00	-3.51	65156.400	1.5	68088.270	1.5
3410.5255	7.00	-4.89	112957.700	1.5	115889.000	.5
3410.6977	7.00	-1.42	111198.848	.5	114130.000	.5
3411.3064	7.00	-.29	106996.032	1.5	109926.661	2.5
3411.6195	28.01	-2.41	114942.420	1.5	117872.780	2.5
3411.6230	17.00	-2.92	91538.500	1.5	94468.857	.5
3411.9223	13.01	-1.35	144641.900	0.0	147572.000	1.0
3412.2717	15.00	-3.38	76192.300	1.5	79122.100	1.5
3412.4556	12.00	-1.75	56968.218	3.0	59897.860	2.0
3412.4696	6.00	-1.30	86369.470	4.0	89299.100	3.0
3412.4906	12.00	-2.20	56968.248	2.0	59897.860	1.0
3412.4906	12.00	-2.67	56968.248	2.0	59897.860	2.0
3412.5174	12.00	-2.50	56968.271	1.0	59897.860	1.0
3412.5174	12.00	-3.68	56968.271	1.0	59897.860	2.0
3412.5174	12.00	-2.37	56968.271	1.0	59897.860	0.0
3412.6211	6.00	-1.51	86369.600	2.0	89299.100	3.0
3412.9007	28.01	-1.34	128867.000	3.5	131796.260	2.5
3413.0522	18.01	-2.45	208803.240	4.5	211732.370	4.5
3413.0522	18.01	-4.18	208803.240	5.5	211732.370	4.5
3413.0533	26.00	-3.03	44676.963	4.0	47606.092	5.0
3413.1313	10.00	-.29	162899.113	2.0	165828.175	2.0
3413.1803	18.01	-.63	208803.240	4.5	211732.260	5.5
3413.1803	18.01	-2.45	208803.240	5.5	211732.260	5.5
3413.6815	28.01	-.65	134607.370	4.5	137535.960	3.5
3413.7281	9.02	-3.98	466190.970	3.5	469119.520	2.5
3413.8330	28.01	.63	134607.370	4.5	137535.830	5.5
3414.0919	12.00	-1.77	57214.992	1.0	60143.230	0.0
3414.1151	26.00	-4.01	50880.152	1.0	53808.370	1.0
3414.1361	28.01	-4.91	105439.850	1.5	108368.050	2.5
3414.2585	11.00	.10	30272.580	1.5	33200.675	.5
3414.2644	28.01	-4.19	131124.960	3.5	134053.050	2.5
3414.4743	29.01	-1.73	133826.200	2.0	136754.110	2.0
3414.7309	27.00	-3.33	43295.320	4.5	46223.010	4.5
3414.8359	22.00	-4.09	38159.710	3.0	41087.310	3.0
3414.8522	7.00	-1.93	111143.567	.5	114071.153	1.5
3415.3375	23.00	-2.75	35012.910	.5	37940.080	.5
3415.3958	6.00	-.72	81105.030	1.0	84032.150	1.0
3415.4880	14.00	.40	54871.031	1.0	57798.072	2.0
3415.9444	6.00	-.53	80834.610	3.0	83761.260	3.0
3415.9479	18.00	-1.55	119683.113	2.0	122609.760	1.0
3416.4463	11.00	-1.58	36372.620	.5	39298.840	1.5
3416.7032	28.01	-4.83	133973.330	2.5	136899.330	1.5
3417.0185	11.00	-1.88	36372.620	.5	39298.350	.5
3417.1352	18.01	-4.03	212071.800	3.5	214997.430	4.5
3417.1527	17.00	-2.66	97259.811	1.5	100185.426	2.5
3417.2404	23.00	-3.78	37075.640	4.5	40001.180	3.5
3417.3455	22.00	-4.96	39198.320	6.0	42123.770	6.0
3417.3934	17.00	-1.08	97259.811	1.5	100185.220	1.5
3417.6142	27.00	-4.98	49847.080	2.5	52772.300	2.5
3417.8246	10.01	-1.28	303974.290	1.5	306899.330	2.5
3418.1050	13.01	.16	146274.400	2.0	149199.200	3.0
3418.2569	10.01	-3.85	277344.290	2.5	280268.960	2.5
3418.2919	14.00	-2.79	60300.860	2.0	63225.500	2.0
3418.4416	18.00	-1.17	121932.908	1.0	124857.420	2.0
3418.6087	7.00	-1.98	104664.100	1.5	107588.469	.5
3418.6169	18.00	-1.15	121932.908	1.0	124857.270	1.0
3418.6379	14.00	-3.41	60848.946	4.0	63773.290	3.0
3418.7362	28.01	-2.78	118774.760	.5	121699.020	1.5
3419.0284	6.00	-2.77	84032.150	1.0	86956.160	1.0
3419.1805	6.00	-3.36	85625.180	0.0	88549.060	1.0
3419.2623	28.01	.53	134607.370	4.5	137531.180	4.5
3419.5196	23.00	-3.73	34065.610	2.5	36989.200	2.5
3419.5313	28.01	-3.70	128827.150	3.5	131750.730	3.5
3419.7933	7.00	-2.98	111285.644	1.5	114209.000	.5
3419.9642	18.01	-.86	202155.860	2.5	205079.070	2.5
3420.1209	12.00	-3.22	57204.163	3.0	60127.239	2.0
3420.2520	12.00	-1.79	57204.275	3.0	60127.239	2.0
3420.2520	12.00	-3.31	57204.275	2.0	60127.239	2.0
3420.4790	24.00	-2.71	35807.900	2.0	38730.670	2.0
3420.7365	24.00	-4.16	52064.270	4.0	54986.820	3.0
3420.7891	14.00	-1.47	60962.105	2.0	63884.610	1.0
3421.0292	13.01	-1.33	143262.700	2.0	146185.000	2.0
3421.0292	13.01	-.60	143262.700	2.0	146185.000	1.0
3421.0292	13.01	-2.88	143262.700	2.0	146185.000	3.0
3421.3417	18.00	-.61	123372.987	2.0	126295.020	3.0
3421.4272	18.01	-1.15	187589.230	2.5	190511.190	2.5
3421.4788	17.00	-1.51	97667.396	3.5	100589.312	2.5
3421.4823	18.00	-2.24	123372.987	2.0	126294.900	3.0
3421.6146	29.01	-3.84	148482.000	3.0	151403.800	2.0
3421.8956	6.00	-1.62	84851.530	1.0	87773.090	2.0
3422.0784	7.00	-2.73	111271.596	.5	114193.000	1.5
3422.2236	28.01	-.80	134614.550	5.5	137535.830	5.5
3422.3150	7.00	-.87	111326.798	2.5	114248.000	3.5
3422.4298	26.00	-4.46	45595.046	0.0	48516.150	1.0
3422.4978	7.00	-.75	107182.788	1.5	110103.834	1.5
3422.6103	24.00	-5.00	33113.270	4.0	36034.220	3.0
3422.9150	14.00	-2.88	59221.110	0.0	62141.800	1.0
3422.9618	28.01	-3.12	134642.090	3.5	137562.740	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3423.2548	29.01	-4.76	148482.000	3.0	151402.400	3.0
3423.2783	28.01	-3.61	115956.710	2.5	118877.090	1.5
3423.3018	17.00	-2.47	91906.790	2.5	94827.150	2.5
3423.4283	16.00	-.28	71350.449	1.0	74270.701	0.0
3423.5362	10.00	-1.71	170689.370	0.0	173609.530	1.0
3423.5479	26.00	-3.42	51827.590	2.0	54747.740	1.0
3423.8410	18.01	-4.76	212076.900	2.5	214996.800	3.5
3424.0287	26.00	-2.77	51691.980	3.0	54611.720	2.0
3424.1928	8.00	-.94	103625.766	1.0	106545.366	2.0
3424.3453	28.01	-4.36	131133.580	2.5	134053.050	2.5
3424.6116	8.00	-.72	103626.123	2.0	106545.366	2.0
3425.1982	8.00	-.57	103626.623	3.0	106545.366	2.0
3425.5421	27.00	-4.34	50593.380	4.5	53511.830	5.5
3425.7652	14.01	.41	119245.480	.5	122163.740	1.5
3425.8345	16.00	.20	71350.449	1.0	74268.650	1.0
3425.8626	18.00	-3.16	119683.113	2.0	122601.290	1.0
3425.9177	18.01	-1.58	187589.230	2.5	190507.360	1.5
3426.0234	10.01	-3.66	277344.290	2.5	280262.330	3.5
3426.6704	10.00	-1.09	167639.561	1.0	170557.050	1.0
3426.7750	28.01	-4.46	115956.710	2.5	118874.110	3.5
3427.0710	16.00	.42	71350.449	1.0	74267.597	2.0
3427.3154	24.00	-1.94	35813.730	3.0	38730.670	2.0
3427.3976	6.00	-1.12	83497.620	2.0	86414.490	3.0
3427.4235	26.00	-2.42	47606.092	5.0	50522.940	6.0
3427.5634	7.00	-1.72	111213.271	1.5	114130.000	.5
3427.6797	28.01	-1.65	134614.550	5.5	137531.180	4.5
3427.7150	27.00	-4.38	49847.080	2.5	52763.680	3.5
3427.8677	19.00	-1.36	31765.370	.5	34681.840	1.5
3427.8677	19.00	-1.66	31765.370	.5	34681.840	.5
3428.0206	18.01	-.49	200234.860	2.5	203151.200	2.5
3428.2204	27.00	-3.97	49197.740	4.5	52113.910	5.5
3428.2557	28.01	.09	134607.370	4.5	137523.510	3.5
3429.0553	29.01	-2.99	118163.500	2.0	121078.960	3.0
3429.3375	17.00	-3.79	97674.092	3.5	100589.312	2.5
3429.3611	13.01	-1.70	143269.800	3.0	146185.000	3.0
3429.3611	13.01	-.80	143269.800	3.0	146185.000	2.0
3429.5752	22.00	-4.17	36200.940	5.0	39115.958	4.0
3429.6175	17.00	-2.71	97674.330	2.5	100589.312	2.5
3429.7576	7.00	-3.53	111260.873	3.5	114175.736	3.5
3429.8082	28.01	-.34	134614.550	5.5	137529.370	6.5
3429.8117	26.00	-4.37	49135.003	3.0	52049.820	2.0
3429.8670	6.00	-2.22	86317.640	2.0	89232.410	1.0
3429.9141	29.01	.15	138819.170	3.0	141733.900	2.0
3429.9729	18.00	-2.25	122160.220	3.0	125074.900	2.0
3429.9835	14.00	-.56	59506.359	2.0	62421.030	3.0
3430.2601	26.00	-3.09	48304.623	2.0	51219.059	3.0
3430.2672	6.00	-2.47	83497.620	2.0	86412.050	2.0
3430.3495	6.00	.35	83497.620	2.0	86411.980	3.0
3430.4908	25.00	-3.76	59600.350	2.5	62514.590	2.5
3430.5379	15.00	-2.90	76425.200	2.5	79339.400	1.5
3430.8039	14.00	-3.74	60848.946	4.0	63762.920	4.0
3431.1854	14.00	-1.50	60856.630	1.0	63770.280	1.0
3431.6519	14.00	-2.61	60848.946	4.0	63762.200	3.0
3432.0924	26.02	-2.80	202030.380	3.0	204943.260	2.0
3432.2102	6.00	-2.03	80834.610	3.0	83747.390	2.0
3432.8385	12.00	-3.35	57214.992	1.0	60127.239	2.0
3433.0117	13.01	-1.86	145185.000	1.0	148097.100	0.0
3433.6366	23.00	-2.61	35092.360	1.5	38003.930	1.5
3433.6484	6.00	-2.45	84935.340	1.0	87846.900	0.0
3434.2264	10.01	-4.55	276511.820	.5	279422.890	.5
3434.2618	29.01	-3.92	116080.460	3.0	118991.500	4.0
3434.8046	26.00	-4.15	51969.140	3.0	54879.720	2.0
3434.9344	6.00	-3.15	86321.940	0.0	89232.410	1.0
3435.0690	7.00	-.96	111285.644	1.5	114196.000	2.5
3435.2542	17.00	-.74	97259.811	1.5	100170.010	2.5
3435.4183	26.00	-4.95	48238.832	2.0	51148.892	2.0
3435.8198	6.00	-3.08	86389.380	2.0	89299.100	3.0
3435.8788	25.00	-2.50	57485.970	2.5	60395.640	1.5
3437.1782	6.00	-1.95	84935.340	1.0	87843.910	1.0
3437.3401	14.00	-1.90	59636.667	1.0	62545.100	1.0
3437.3673	10.00	-1.27	167648.640	2.0	170557.050	1.0
3437.3791	19.02	-1.96	241039.000	1.5	243947.400	1.5
3438.3805	28.00	-3.52	51343.800	2.0	54251.353	3.0
3438.5709	14.00	-1.42	57798.072	2.0	60705.464	3.0
3438.6135	7.00	-2.63	111285.644	1.5	114193.000	1.5
3438.8216	18.01	-4.47	212071.800	3.5	214978.980	4.5
3439.6380	29.01	-2.00	117883.140	4.0	120789.630	4.0
3439.6640	17.00	-3.23	95786.752	2.5	98693.220	2.5
3439.9090	17.00	-3.88	95786.752	2.5	98693.013	3.5
3439.9220	28.01	-2.78	101740.270	3.5	104646.520	3.5
3440.0049	24.00	-4.65	33671.550	3.0	36577.730	4.0
3440.1600	10.00	-3.49	168924.651	2.0	171830.700	1.0
3440.2239	7.00	-1.12	111165.158	1.5	114071.153	1.5
3440.2393	26.00	-4.08	40257.300	5.0	43163.282	4.0
3440.2653	6.00	-3.35	78199.070	2.0	81105.030	1.0
3440.2772	28.01	-3.89	112686.300	2.5	115592.250	1.5
3440.4548	30.02	-4.21	300047.000	6.0	302952.800	6.0
3440.5613	22.00	-2.87	43744.550	4.0	46650.260	3.0
3440.5732	28.01	-4.56	106133.140	1.5	109038.840	1.5
3440.6856	14.00	-.74	60815.925	2.0	63721.530	2.0
3440.9261	7.00	-1.38	111326.798	2.5	114232.200	1.5
3441.0658	26.00	-2.79	45061.287	3.0	47966.571	3.0
3441.4022	13.01	-1.33	145185.000	1.0	148090.000	1.0
3441.4022	13.01	-2.42	145185.000	2.0	148090.000	1.0
3441.4022	13.01	-.85	145185.000	1.0	148090.000	2.0
3441.4022	13.01	-1.24	145185.000	2.0	148090.000	2.0
3441.4022	13.01	-.49	145185.000	2.0	148090.000	3.0
3441.4022	13.01	-1.11	145185.000	0.0	148090.000	1.0
3441.4046	26.00	-3.35	45333.834	2.0	48238.832	2.0
3441.7340	29.01	-.86	136336.880	1.0	139241.600	1.0
3441.9271	17.00	-3.46	91564.300	.5	94468.857	.5
3442.1131	13.01	-.27	143280.600	4.0	146185.000	3.0
3442.1226	7.00	-.42	107445.622	1.5	110350.014	.5
3442.3028	21.00	-3.98	38570.640	.5	41474.880	1.5
3442.4095	21.00	-3.96	38601.500	1.5	41505.650	2.5
3442.4213	28.01	-3.53	134658.600	4.5	137562.740	3.5
3442.5873	30.02	-4.30	300048.800	5.0	302952.800	5.0
3442.7177	27.00	-1.93	45924.980	3.5	48828.870	2.5
3443.0615	29.01	-4.06	148515.600	4.0	151419.200	3.0
3443.2038	9.00	-3.18	126581.180	.5	129484.660	1.5
3443.9914	28.00	-1.38	50851.220	1.0	53754.036	-2.0
3444.2181	10.00	-3.43	168586.860	0.0	171489.485	1.0
3444.7224	6.00	-4.63	84851.530	1.0	87753.730	2.0
3444.8886	18.01	-.96	189654.780	2.5	192556.840	2.5
3444.8981	22.00	-5.00	39115.958	4.0	42018.010	5.0
3445.3457	14.00	-2.33	60962.105	2.0	63863.780	2.0
3445.4608	20.00	-3.94	43933.477	1.0	46835.055	0.0
3445.7910	6.00	-1.95	86397.800	3.0	89299.100	3.0
3445.7910	15.01	-.93	127900.400	0.0	130801.700	1.0
3445.8741	25.00	-3.65	56356.210	3.5	59257.440	4.5
3446.2543	6.00	-1.40	86449.190	3.0	89350.100	2.0
3446.2661	30.02	-3.63	300083.000	3.0	302983.900	4.0
3446.3493	25.00	-4.42	59731.940	4.5	62632.770	3.5
3446.3849	23.00	-3.36	36983.630	1.5	39884.430	1.5
3446.4087	6.00	-2.65	86331.630	1.0	89232.410	1.0
3446.5038	21.00	-2.58	33615.060	1.5	36515.760	1.5
3446.8840	19.00	-.75	31695.890	2.5	34596.270	1.5
3446.9078	18.01	-2.78	202155.860	2.5	205056.220	1.5
3447.1443	10.00	-.12	163012.621	1.0	165912.782	1.0
3447.1931	19.00	-1.70	31696.150	1.5	34596.270	1.5
3447.1931	19.00	-1.00	31696.150	1.5	34596.270	.5
3447.5259	14.00	-1.41	57017.496	2.0	59917.336	2.0
3447.7637	28.01	-.08	119913.330	4.5	122812.970	3.5
3447.8350	18.00	-1.33	122160.220	3.0	125059.800	2.0
3448.3345	6.00	-2.98	84103.100	2.0	87002.260	3.0
3448.7151	9.02	-2.79	441158.600	1.5	444057.440	1.5
3448.9865	10.00	-.53	163707.721	1.0	166606.333	0.0
3449.1494	14.00	-1.72	60815.925	2.0	63714.400	2.0
3449.6910	27.00	-2.29	43847.980	3.5	46746.000	2.5
3449.9291	9.02	-4.91	441158.600	1.5	444056.420	.5
3450.1196	18.01	-4.57	212076.900	2.5	214974.560	3.5
3450.2386	23.00	-4.01	34128.040	3.5	37025.600	3.5
3450.6673	6.00	-2.67	84935.340	1.0	87832.540	2.0
3451.0724	28.01	-4.07	128853.870	2.5	131750.730	3.5
3451.1200	28.01	-3.68	128853.910	4.5	131750.730	3.5
3451.3106	23.00	-4.79	39241.340	2.5	42138.000	2.5
3451.3821	30.02	-3.72	300076.100	2.0	302972.700	3.0
3451.6729	7.00	-2.04	111285.644	1.5	114182.000	2.5
3453.0153	23.00	-4.93	36989.200	2.5	39884.430	1.5
3453.4924	6.00	-1.76	84935.340	1.0	87830.170	1.0
3453.9577	22.00	.00	41481.130	5.0	44375.570	5.0
3454.4948	23.00	-4.24	36983.630	1.5	39877.620	.5
3454.5748	26.00	-2.89	32873.623	4.0	35767.546	4.0
3454.6381	28.01	.51	134642.090	3.5	137535.960	3.5
3454.6500	28.01	-3.82	95573.390	3.5	98467.250	3.5
3454.7694	14.00	-1.24	60856.630	1.0	63750.390	1.0
3454.7825	22.00	-3.46	36065.750	3.0	38959.499	4.0
3454.8530	26.02	-2.83	199262.440	3.0	202156.130	2.0
3454.9604	15.00	-3.09	77655.200	3.5	80548.800	2.5
3455.0201	6.00	-1.86	84950.360	2.0	87843.910	1.0
3455.1515	22.00	-7.99	13981.750	1.0	16875.190	2.0
3455.4906	10.00	-1.78	167639.561	1.0	170532.717	2.0
3455.8562	29.01	-3.42	135990.150	3.0	138883.000	4.0
3456.3818	18.00	-3.94	123172.090	1.0	126064.500	2.0
3456.7165	18.01	-1.58	196633.020	2.5	199525.150	1.5
3456.8480	27.00	-3.54	46186.410	1.5	49078.430	1.5
3457.1014	26.00	-3.99	47812.104	4.0	50703.912	5.0
3457.5844	7.00	-1.98	111271.596	.5	114163.000	1.5
3457.5892	19.02	-2.85	243120.600	2.5	246012.000	1.5
3457.9360	28.01	-4.77	115081.360	4.5	117972.470	3.5
3458.0676	28.01	-4.80	131063.850	.5	133954.850	.5
3458.2112	18.02	-4.49	243145.760	2.0	246036.640	3.0
3459.0248	6.00	-2.74	86491.410	1.0	89381.610	0.0
3459.2163	9.02	-2.09	441167.400	.5	444057.440	1.5
3459.5874	14.01	.68	119274.070	1.5	122163.800	2.5
3459.6233	30.02	-3.73	300083.000	3.0	302972.700	4.0
3459.6593	14.01	-.27	119274.070	1.5	122163.740	1.5
3459.7526	7.00	.09	107037.069	2.5	109926.661	2.5
3460.3538	28.01	-.72	134642.090	3.5	137531.180	4.5
3460.4256	28.01	-3.33	114874.880	2.5	117763.910	1.5
3460.7731	14.00	-1.33	61423.230	3.0	64311.970	4.0
3460.7850	27.00	-4.26	44201.920	2.5	47090.650	2.5
3460.8209	30.02	-3.85	300053.200	2.0	302941.900	2.0
3460.8209	30.02	-2.57	300053.200	2.0	302941.900	3.0
3461.1085	27.00	-3.42	42988.120	3.5	45876.580	2.5
3461.1756	7.00	-1.61	111271.596	.5	114160.000	1.5
3461.2595	14.00	-3.20	61198.036	0.0	64086.370	1.0
3461.3721	28.01	-3.61	128862.490	4.5	131750.730	3.5
3461.6238	18.02	-4.61	243145.760	2.0	246033.790	2.0
3461.7197	28.01	-4.87	129424.030	5.5	132311.980	4.5
3461.7797	15.00	-2.24	77734.500	2.5	80622.400	2.5
3461.8396	18.01	-.53	201030.300	.5	203918.150	1.5
3462.7029	15.00	-2.03	65373.470	.5	68260.600	.5
3462.9668	21.00	-4.84	37717.110	3.5	40604.020	3.5
3463.0988	29.01	-3.87	148515.600	4.0	151402.400	3.0
3463.2907	26.01	-2.79	84685.160	3.5	87571.800	2.5
3463.8187	15.00	-3.92	76875.400	1.5	79761.600	2.5
3464.2988	30.02	-3.17	300098.100	4.0	302983.900	5.0
3464.4525	17.00	-3.51	97703.640	1.5	100589.312	2.5
3464.4764	7.00	-.52	111260.873	3.5	114146.525	2.5
3464.7550	22.00	-1.36	41194.420	3.0	44079.840	2.0
3464.8139	17.00	-3.17	97703.941	2.5	100589.312	2.5
3465.0192	17.00	-4.11	94468.857	.5	97354.057	1.5
3465.6919	28.01	-.02	134642.090	3.5	137526.730	2.5
3465.9574	14.00	-2.84	61303.381	3.0	64187.800	3.0
3466.0716	26.00	-3.73	34636.820	2.0	37521.144	2.0
3466.2567	29.01	-4.07	136014.260	2.0	138898.430	1.0
3466.3684	10.00	-.96	167648.640	2.0	170532.717	2.0
3466.7374	6.00	-1.46	84851.530	1.0	87735.300	1.0
3466.7855	28.01	-3.36	128867.000	3.5	131750.730	3.5
3466.7855	18.00	-4.24	123205.830	3.0	126089.560	3.0
3467.0416	14.00	-4.29	61304.283	2.0	64187.800	3.0
3467.3675	16.00	-.12	74972.250	4.0	77855.496	3.0
3467.5587	7.00	-1.36	111143.567	.5	114026.654	.5
3467.6273	6.00	-.85	77679.820	2.0	80562.850	1.0
3467.6718	14.00	-4.86	59636.667	1.0	62519.660	2.0
3467.9641	14.00	-3.39	61305.050	3.0	64187.800	3.0
3468.5103	16.00	-.71	74973.200	3.0	77855.496	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3468.6499	6.00	-2.11	84950.360	2.0	87832.540	2.0
3468.8666	29.01	-4.21	148521.800	1.0	151403.800	2.0
3469.3348	10.00	-4.21	167807.759	1.0	170689.370	0.0
3469.5648	28.01	-1.53	134642.090	3.5	137523.510	3.5
3469.6515	20.00	-4.16	42171.026	4.0	45052.374	3.0
3469.7334	23.00	-2.34	35225.040	2.5	38106.320	2.5
3469.8707	16.00	-1.55	74974.330	2.0	77855.496	3.0
3469.9261	18.00	-4.71	123172.090	1.0	126053.210	2.0
3469.9658	14.00	-1.50	61306.713	4.0	64187.800	3.0
3470.4199	6.00	-2.56	84032.150	1.0	86912.860	1.0
3470.4320	14.00	-2.58	61423.230	3.0	64303.930	3.0
3470.7694	29.01	-.86	136336.880	1.0	139217.300	2.0
3470.9742	10.00	-3.62	169976.740	0.0	172856.990	1.0
3471.4430	20.00	-4.77	42170.558	3.0	45050.419	2.0
3471.4804	28.01	-4.29	105668.780	2.5	108548.610	1.5
3471.5045	6.00	-3.30	84950.360	2.0	87830.170	1.0
3471.6371	17.01	-2.69	144174.000	3.0	147053.700	2.0
3471.6613	28.01	-3.56	112686.300	2.5	115565.980	2.5
3472.1749	12.00	-1.45	58023.246	2.0	60902.500	2.0
3472.1749	12.00	-1.09	58023.246	2.0	60902.500	3.0
3472.1749	12.00	-.61	58023.246	2.0	60902.500	3.0
3472.3799	16.00	-.40	74973.200	3.0	77852.284	2.0
3472.6513	20.00	-4.49	42170.214	2.0	45049.073	1.0
3472.9155	17.00	-1.81	99354.670	1.5	102233.310	2.5
3473.1460	10.00	-1.66	168924.651	2.0	171803.100	2.0
3473.5309	28.01	-3.72	112906.930	1.5	115785.060	1.5
3473.7433	16.00	-.61	74974.330	2.0	77852.284	2.0
3473.9775	21.00	-2.10	33615.060	1.5	36492.820	.5
3474.0958	14.00	-4.78	60706.558	1.0	63584.220	1.0
3474.4000	19.00	-1.44	31765.370	.5	34642.780	1.5
3474.4000	19.00	-1.74	31765.370	.5	34642.780	.5
3474.4194	26.00	-4.46	53545.882	3.0	56423.276	4.0
3474.4604	28.01	-.41	134658.600	4.5	137535.960	3.5
3474.4652	7.00	-2.48	111285.644	1.5	114163.000	1.5
3474.6174	28.01	.07	134658.600	4.5	137535.830	5.5
3474.7261	28.01	-3.23	134642.090	3.5	137519.230	2.5
3474.7261	27.00	-1.69	45876.580	2.5	48753.720	1.5
3474.7756	7.00	-1.01	107445.622	1.5	110322.721	1.5
3474.8058	16.00	-1.20	74975.210	1.0	77852.284	2.0
3474.8831	25.00	-1.91	59257.440	4.5	62134.450	5.5
3475.1694	28.00	-3.43	44262.619	2.0	47139.392	2.0
3475.6442	21.00	-4.69	38570.640	.5	41447.020	.5
3476.0551	7.00	-.32	106980.480	.5	109856.520	1.5
3476.3452	30.02	-3.86	300108.100	3.0	302983.900	4.0
3476.4419	22.00	-2.38	44162.440	4.0	47038.160	3.0
3476.7562	16.00	-.83	74974.330	2.0	77849.790	1.0
3477.4238	18.00	-2.20	119760.220	1.0	122635.128	2.0
3477.8206	16.00	-.72	74975.210	1.0	77849.790	1.0
3477.8835	20.00	-.99	45050.419	2.0	47924.947	3.0
3477.9416	14.00	-2.50	61423.230	3.0	64297.710	4.0
3478.0009	10.00	-.31	163038.351	2.0	165912.782	1.0
3478.0916	7.00	-1.98	111285.644	1.5	114160.000	1.5
3478.0916	7.00	-.92	111285.644	1.5	114160.000	2.5
3478.3530	14.00	-3.78	61423.230	3.0	64297.370	3.0
3478.5345	16.00	-1.07	74975.800	0.0	77849.790	1.0
3478.9473	10.00	-2.59	168924.651	2.0	171798.300	1.0
3479.2730	21.00	-4.50	38601.500	1.5	41474.880	1.5
3479.8761	14.00	-2.09	60706.558	1.0	63579.440	0.0
3480.2420	28.01	-.12	134658.600	4.5	137531.180	4.5
3480.5752	7.00	-2.35	111198.848	.5	114071.153	1.5
3480.8600	10.00	-2.29	169727.630	1.0	172599.700	0.0
3481.0575	26.00	-4.41	48231.330	5.0	51103.237	5.0
3481.0660	28.01	-4.76	115956.710	2.5	118828.610	2.5
3481.1024	23.00	-4.63	39127.230	1.5	41999.100	1.5
3481.1618	17.00	-.51	94482.236	2.5	97354.057	1.5
3481.4757	20.00	-1.32	45050.419	2.0	47921.981	3.0
3483.0550	14.01	-2.31	122163.740	1.5	125034.000	1.5
3483.1279	14.01	-1.35	122163.800	2.5	125034.000	1.5
3483.4555	25.00	-4.72	56490.790	2.5	59360.720	2.5
3483.4652	28.00	-.34	49327.560	3.0	52197.482	3.0
3483.5041	6.00	-2.72	86362.520	1.0	89232.410	1.0
3483.7845	20.00	-.74	45052.374	3.0	47922.033	4.0
3483.8318	27.00	-4.71	49847.080	2.5	52716.700	3.5
3483.8440	18.01	-.82	186171.260	.5	189040.870	1.5
3483.8476	20.00	-1.80	45052.374	3.0	47921.981	3.0
3484.1196	26.00	-3.83	47834.529	5.0	50703.912	5.0
3484.1475	20.02	-2.16	371274.480	2.0	374143.840	3.0
3484.3175	10.01	-1.43	304440.240	.5	307309.460	.5
3484.3393	7.00	-1.48	111326.798	2.5	114196.000	2.5
3484.4183	14.00	-.89	60487.103	1.0	63356.240	2.0
3484.4632	17.00	-2.34	94973.683	.5	97842.783	1.5
3484.6697	24.00	-3.66	31028.330	2.0	33897.260	1.0
3484.7912	18.00	-3.45	123220.730	2.0	126089.560	3.0
3484.9491	26.00	-4.35	52857.840	1.0	55726.540	0.0
3484.9564	26.00	-3.11	45061.287	3.0	47929.981	4.0
3485.1921	28.01	-4.13	113407.310	2.5	116275.810	3.5
3485.2176	10.00	-4.98	166975.341	1.0	169843.820	2.0
3485.4400	28.00	-.75	49403.420	1.0	52271.716	2.0
3485.5262	14.00	-1.84	59273.575	1.0	62141.800	1.0
3486.0915	14.01	-1.56	124496.000	2.5	127363.760	2.5
3486.0915	14.01	-.26	124496.000	2.5	127363.760	3.5
3486.0915	14.01	-.41	124496.000	1.5	127363.760	2.5
3486.2373	28.01	-4.02	128803.230	2.5	131670.870	2.5
3486.4075	13.01	-1.15	145185.000	1.0	148052.500	1.0
3486.4075	13.01	-.84	145185.000	2.0	148052.500	1.0
3486.4075	13.01	-1.54	145185.000	0.0	148052.500	1.0
3486.4318	9.00	-.84	130141.650	1.5	133009.130	.5
3486.8137	18.00	-1.72	121068.804	1.0	123935.970	1.0
3486.8489	7.00	-.83	111204.016	2.5	114071.153	1.5
3486.9559	10.00	-2.60	168924.651	2.0	171791.700	2.0
3486.9790	6.00	-1.51	84851.530	1.0	87718.560	1.0
3487.2588	15.01	-1.24	127934.900	1.0	130801.700	1.0
3487.4778	29.01	-4.47	135952.550	2.0	138819.170	3.0
3487.6724	17.00	.28	94663.670	1.5	97530.130	2.5
3487.8671	23.00	-4.29	39391.020	4.5	42257.320	5.5
3487.8915	15.00	-2.25	67113.820	2.5	69980.100	3.5
3487.9863	7.00	-3.68	111326.798	2.5	114193.000	1.5
3488.4756	30.02	-3.84	300076.100	2.0	302941.900	2.0
3488.4756	30.02	-4.34	300076.100	2.0	302941.900	3.0
3488.7556	27.00	-4.60	50105.050	1.5	52970.620	2.5
3488.7800	21.00	-3.39	33707.250	2.5	36572.800	2.5
3489.0965	14.00	-1.36	60621.640	0.0	63486.930	1.0
3489.5594	28.01	-.86	134658.600	4.5	137523.510	3.5
3489.5715	14.00	-1.55	60856.630	1.0	63721.530	2.0
3489.7055	22.00	-1.22	41368.860	4.0	44233.650	3.0
3489.9857	18.01	-3.57	199679.760	2.5	202544.320	2.5
3490.0137	55.00	-.04	11732.308	0.0	14597.626	0.0
3490.5243	12.00	-1.16	57017.078	0.0	59881.196	1.0
3490.6559	17.00	-2.79	99354.670	1.5	102218.680	2.5
3490.8144	28.01	-1.73	133809.760	3.5	136673.640	4.5
3491.0057	17.00	-2.72	97338.887	2.5	100202.610	1.5
3491.0094	27.00	-4.64	41918.410	3.5	44782.130	4.5
3491.0216	17.00	-2.64	99354.670	1.5	102218.380	1.5
3491.0984	10.00	-2.31	168967.353	1.0	171831.000	0.0
3491.1435	23.00	-3.70	36983.630	1.5	39847.240	1.5
3491.2289	6.00	-1.63	87103.120	1.0	89966.660	2.0
3491.3117	12.00	-1.28	57017.724	1.0	59881.196	1.0
3491.3300	12.00	-.98	57017.724	1.0	59881.181	2.0
3491.4605	23.00	-2.20	35379.110	3.5	38242.460	3.5
3491.4642	10.00	-4.03	168967.353	1.0	171830.700	1.0
3492.1191	6.00	-2.29	86369.600	2.0	89232.410	1.0
3492.6804	6.00	-3.57	84103.100	2.0	86965.450	2.0
3492.6816	10.00	-1.48	168924.651	2.0	171787.000	3.0
3492.8633	14.01	-.80	101023.310	1.5	103885.510	1.5
3492.8987	12.00	-2.46	57019.025	2.0	59881.196	1.0
3492.9171	12.00	-1.46	57019.025	2.0	59881.181	2.0
3492.9244	21.00	-4.15	39153.420	4.5	42015.570	3.5
3492.9329	12.00	-.54	57019.025	2.0	59881.168	3.0
3492.9366	6.00	-2.03	86519.470	1.0	89381.610	0.0
3493.2295	13.01	-.44	144638.900	3.0	147500.800	4.0
3493.3638	28.01	-4.06	118379.110	2.5	121240.900	3.5
3493.7056	28.01	-4.95	133169.920	3.5	136031.430	2.5
3493.7227	7.00	-1.36	111165.158	1.5	114026.654	.5
3493.7667	14.01	-1.66	122163.740	1.5	125025.200	.5
3493.9620	13.01	-.97	144638.900	2.0	147500.200	3.0
3493.9620	13.01	-1.87	144638.900	3.0	147500.200	3.0
3494.1574	26.01	-.24	84710.660	3.5	87571.800	2.5
3494.3931	10.00	-3.23	168967.353	1.0	171828.300	2.0
3494.4505	14.01	.16	101024.610	2.5	103885.510	1.5
3494.4505	13.01	-1.50	144638.900	2.0	147499.800	2.0
3494.4505	13.01	-.77	144638.900	1.0	147499.800	2.0
3494.4505	13.01	-3.05	144638.900	3.0	147499.800	2.0
3494.4738	7.00	-1.17	111285.644	1.5	114146.525	2.5
3494.9270	29.01	-2.06	117231.690	1.0	120092.200	2.0
3494.9392	30.02	-3.69	300123.400	5.0	302983.900	5.0
3494.9538	7.00	-.81	106996.032	1.5	109856.520	1.5
3494.9636	22.00	-4.14	41515.090	4.0	44375.570	5.0
3495.0980	18.00	-.35	119847.810	1.0	122708.180	2.0
3495.2569	23.00	-4.56	36538.580	4.5	39398.820	3.5
3495.4768	9.00	-.51	130149.070	.5	133009.130	.5
3495.5380	6.00	-3.16	86912.860	1.0	89772.870	2.0
3495.6724	29.01	-2.75	148559.300	2.0	151419.200	3.0
3495.6944	14.00	-1.30	60496.358	2.0	63356.240	2.0
3495.7457	6.00	-2.28	84851.530	1.0	87711.370	0.0
3496.0391	15.00	-2.00	77734.500	2.5	80594.100	1.5
3496.0391	15.00	-2.23	72493.800	1.5	75353.400	1.5
3496.7239	26.00	-2.43	48289.852	1.0	51148.892	2.0
3496.8951	30.02	-4.09	300083.000	3.0	302941.900	3.0
3496.9563	27.00	-3.67	43847.980	3.5	46706.830	3.5
3497.1520	6.00	-3.76	86491.410	1.0	89350.100	2.0
3497.1764	18.00	-4.43	123205.830	3.0	126064.500	2.0
3497.2988	14.02	-.67	254557.030	2.0	257415.600	2.0
3497.2988	14.02	.07	254557.030	2.0	257415.600	1.0
3497.2988	14.02	-2.21	254557.030	2.0	257415.600	3.0
3497.3074	7.00	-1.16	107588.469	.5	110447.032	1.5
3497.5019	7.00	-2.35	111271.596	.5	114130.000	.5
3497.5802	14.02	.24	254557.260	3.0	257415.600	2.0
3497.5802	14.02	-.67	254557.260	3.0	257415.600	3.0
3497.8861	6.00	-2.66	87113.210	2.0	89971.300	3.0
3497.9474	23.00	-4.13	36989.200	2.5	39847.240	1.5
3498.0453	14.02	.40	254557.640	4.0	257415.600	3.0
3498.1187	30.02	-3.74	300126.000	4.0	302983.900	4.0
3498.1187	30.02	-4.07	300126.000	4.0	302983.900	5.0
3498.1408	7.00	-1.64	111213.271	1.5	114071.153	1.5
3498.2778	14.00	-.45	60856.630	1.0	63714.400	2.0
3498.2779	24.00	-4.91	33040.100	2.0	35897.870	2.0
3498.2901	23.00	-3.93	34167.840	2.5	37025.600	3.5
3498.4468	26.00	-4.88	51825.758	3.0	54683.390	4.0
3499.3529	18.00	-4.44	121794.158	0.0	124651.050	1.0
3499.3738	10.00	-1.97	169705.925	0.0	172562.800	1.0
3499.5514	9.00	-1.97	130141.650	1.5	132998.380	1.5
3499.5710	26.00	-2.47	48122.913	3.0	50979.627	4.0
3499.5882	29.01	-2.83	148515.600	4.0	151372.300	5.0
3499.6127	6.00	-1.61	84851.530	1.0	87708.210	2.0
3499.6372	28.01	-.08	134670.070	1.5	137526.730	2.5
3499.6482	17.00	-.46	94482.236	2.5	97338.887	2.5
3499.7474	6.00	-1.74	84950.360	2.0	87806.930	3.0
3500.1517	14.00	-.59	56780.427	1.0	59636.667	1.0
3500.3111	28.01	-4.73	128799.720	.5	131655.830	.5
3500.3601	14.00	-.46	61447.860	2.0	64303.930	3.0
3500.4704	26.02	-2.70	199300.150	2.0	202156.130	2.0
3500.5342	26.00	-2.56	51148.892	2.0	54004.820	3.0
3500.7646	22.00	-9.34	14105.680	3.0	16961.420	3.0
3501.2795	7.00	-1.82	103622.480	.5	106477.800	.5
3501.4243	7.00	-1.88	111326.798	2.5	114182.000	2.5
3501.6720	13.01	-.82	146414.500	3.0	149269.500	2.0
3501.6720	13.01	-2.25	146414.500	3.0	149269.500	3.0
3501.6720	13.01	-3.68	146414.500	3.0	149269.500	4.0
3501.6720	13.01	-1.38	146414.500	4.0	149269.500	3.0
3501.6720	13.01	-.32	146414.500	4.0	149269.500	3.0
3501.6720	13.01	-2.12	146414.500	4.0	149269.500	4.0
3501.6720	13.01	-2.26	146414.500	4.0	149269.500	4.0
3501.6720	13.01	-.59	146414.500	5.0	149269.500	4.0
3501.8597	10.00	-4.19	168967.353	1.0	171822.200	1.0
3502.0400	30.02	-3.96	300098.100	4.0	302952.800	5.0
3502.0890	17.00	-1.85	98372.970	1.5	101227.630	.5
3502.4669	7.00	-.04	107445.622	1.5	110299.974	2.5
3502.5430	6.00	-1.58	84935.340	1.0	87789.630	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3502.8572	26.00	-3.19	48516.150	1.0	51370.184	2.0
3503.4022	6.00	-1.34	87113.210	2.0	89966.800	3.0
3503.5127	29.01	-4.79	148521.800	1.0	151375.300	2.0
3503.5741	6.00	-1.98	87113.210	2.0	89966.660	2.0
3503.7927	26.00	-4.27	53739.488	5.0	56592.760	4.0
3504.0039	8.01	-3.04	258408.600	.5	261261.700	1.5
3504.0531	6.00	-2.98	84103.100	2.0	86956.160	1.0
3504.1636	27.00	-4.56	48317.170	3.5	51170.140	4.5
3504.2102	7.00	-.09	107182.788	1.5	110035.720	.5
3504.5210	28.00	-.74	50851.220	1.0	53703.899	1.0
3504.6672	10.00	-1.85	169976.740	0.0	172829.300	1.0
3504.9252	14.01	.14	119311.450	3.5	122163.800	2.5
3505.1096	14.01	-1.16	119311.600	2.5	122163.800	2.5
3505.1833	14.01	-.01	119311.600	2.5	122163.740	1.5
3505.6750	26.01	-4.08	84685.160	3.5	87536.900	3.5
3505.7991	18.00	-1.90	114147.750	1.0	116999.389	2.0
3505.9405	28.00	-1.64	47424.830	1.0	50276.354	0.0
3506.2873	7.00	-.97	104144.790	.5	106996.032	1.5
3506.4619	15.01	-.22	127950.600	2.0	130801.700	1.0
3506.8247	22.00	-4.02	43799.455	2.0	46650.260	3.0
3506.9195	7.00	.22	107253.106	2.5	110103.834	1.5
3507.1630	20.00	-2.20	44955.670	0.0	47806.200	1.0
3507.3723	17.00	-3.42	98372.970	1.5	101223.330	2.5
3507.6713	28.00	-2.14	47686.625	0.0	50536.742	1.0
3507.8251	17.00	-4.01	97739.320	1.5	100589.312	2.5
3507.9260	6.00	-3.56	86449.190	3.0	89299.100	3.0
3507.9383	17.00	-4.60	98373.430	2.5	101223.330	2.5
3508.4185	14.00	-1.50	61447.860	2.0	64297.370	3.0
3508.4419	13.00	-3.99	41319.372	2.5	44168.863	2.5
3508.4517	13.00	-2.69	41319.380	3.5	44168.863	2.5
3508.4923	28.01	-4.52	128837.110	5.5	131686.560	4.5
3508.5760	18.00	-2.84	121794.158	0.0	124643.540	1.0
3508.6031	6.00	-4.10	84116.090	1.0	86965.450	2.0
3508.6647	9.00	-1.48	130149.070	.5	132998.380	1.5
3508.6770	30.02	-4.72	300123.400	5.0	302972.700	4.0
3508.7509	29.01	-2.87	136270.260	4.0	139119.500	3.0
3508.8495	28.01	-1.07	134670.070	1.5	137519.230	2.5
3509.1229	7.00	-.73	111326.798	2.5	114175.736	3.5
3509.3421	25.00	-4.73	56490.790	2.5	59339.550	3.5
3509.4037	10.00	-2.34	169976.740	0.0	172825.450	1.0
3509.5971	17.00	-1.89	97354.057	1.5	100202.610	1.5
3509.6070	20.00	-1.73	44957.655	1.0	47806.200	1.0
3509.7117	25.00	-2.69	59784.310	3.5	62632.770	3.5
3509.7598	18.00	-.96	116999.389	2.0	119847.810	1.0
3509.7733	24.00	-4.23	31048.850	1.0	33897.260	1.0
3509.7980	9.00	-2.62	130374.860	1.5	133223.250	.5
3509.9176	17.00	-1.98	97354.057	1.5	100202.350	.5
3510.0075	25.00	-4.75	56567.930	1.5	59416.150	1.5
3510.2786	29.01	-1.38	133594.050	3.0	136442.050	3.0
3510.6238	21.00	-3.59	38657.930	2.5	41505.650	2.5
3510.6238	23.00	-2.84	35092.360	1.5	37940.080	.5
3510.8087	6.00	-1.70	84984.970	3.0	87832.540	2.0
3510.9209	17.00	-4.35	98383.430	4.5	101230.909	3.5
3511.0566	14.00	-1.10	57798.072	2.0	60645.441	2.0
3511.0676	29.01	-3.79	136035.640	3.0	138883.000	4.0
3511.2785	17.00	-3.76	98383.720	3.5	101230.909	3.5
3511.4560	13.00	-2.85	41319.372	2.5	44166.417	1.5
3511.7706	23.00	-4.83	39398.820	3.5	42245.610	3.5
3511.8570	22.00	-7.71	14028.470	2.0	16875.190	2.0
3511.8817	30.02	-4.87	300126.000	4.0	302972.700	3.0
3512.0803	17.00	-2.41	97338.887	2.5	100185.426	2.5
3512.3122	14.00	-1.56	58801.524	1.0	61647.875	2.0
3512.3258	26.02	-2.96	202156.130	2.0	205002.470	3.0
3512.3345	17.00	-2.60	97338.887	2.5	100185.220	1.5
3512.4616	28.01	-4.69	112719.750	3.5	115565.980	2.5
3512.9478	14.00	-1.09	58801.524	1.0	61647.360	1.0
3513.0293	10.00	-1.60	169727.630	1.0	172573.400	2.0
3513.2762	20.02	-2.70	383061.330	2.0	385906.900	2.0
3513.3380	21.00	-4.00	38601.500	1.5	41447.020	.5
3513.7096	14.00	-1.99	60645.441	2.0	63490.660	3.0
3513.7171	26.00	-4.74	53747.547	3.0	56592.760	4.0
3513.9962	22.00	-2.48	34327.960	1.0	37172.947	1.0
3514.5360	19.00	-.80	31695.890	2.5	34540.440	1.5
3514.5978	29.01	-3.13	148559.300	2.0	151403.800	2.0
3514.6559	17.00	-4.80	99681.887	1.5	102526.340	2.5
3514.6683	20.00	-1.51	44961.757	2.0	47806.200	1.0
3514.7461	22.00	-4.84	38670.710	4.0	41515.090	4.0
3514.7757	7.00	-1.66	111285.644	1.5	114130.000	.5
3514.7930	14.00	-.69	60496.358	2.0	63340.700	3.0
3514.8573	19.00	-1.75	31696.150	1.5	34540.440	1.5
3514.8833	26.00	-4.76	48304.623	2.0	51148.892	2.0
3515.1168	19.00	-1.05	31696.150	1.5	34540.230	.5
3515.2169	14.00	-1.77	60645.441	2.0	63489.440	2.0
3515.2899	24.00	-3.50	41224.780	4.0	44068.720	3.0
3515.5000	18.00	-4.02	123220.730	2.0	126064.500	2.0
3515.5618	28.01	-4.43	128827.150	3.5	131670.870	2.5
3515.9575	6.00	-2.56	86506.700	2.0	89350.100	2.0
3516.3037	20.02	-3.85	383063.780	3.0	385906.900	2.0
3516.3285	29.01	-3.79	148559.300	2.0	151402.400	3.0
3516.4151	6.00	-2.29	86389.380	2.0	89232.410	1.0
3516.8357	10.00	-4.96	167001.130	3.0	169843.820	2.0
3516.9853	14.00	-.64	60645.441	2.0	63488.010	3.0
3517.7377	7.00	-.31	107628.283	1.5	110470.244	2.5
3518.2986	26.00	-3.84	45509.112	1.0	48350.620	1.0
3518.8409	18.00	-4.37	119760.220	1.0	122601.290	1.0
3519.3204	7.00	-.47	107445.622	1.5	110286.305	2.5
3519.8073	26.00	-4.45	49227.160	3.0	52067.450	2.0
3519.8816	18.01	-.53	202155.860	2.5	204996.090	3.5
3519.9535	26.00	-4.35	40594.413	4.0	43434.585	3.0
3520.0800	6.00	-3.45	84116.090	1.0	86956.160	1.0
3520.6502	17.00	-2.21	98383.720	3.5	101223.330	2.5
3520.7866	18.01	-4.98	212071.800	3.5	214911.300	2.5
3520.9478	24.00	-4.90	45719.200	1.0	48558.570	2.0
3521.0718	6.00	-1.77	84950.360	2.0	87789.630	1.0
3521.2206	28.01	-4.28	131063.850	.5	133903.000	1.5
3521.6300	18.01	-.48	186815.960	3.5	189654.780	2.5
3521.9153	18.00	-.68	119847.810	1.0	122686.400	2.0
3522.1634	18.00	-1.62	119847.810	1.0	122686.200	1.0
3522.8522	14.00	-1.28	47351.554	2.0	50189.389	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3522.9578	6.00	-1.52	84935.340	1.0	87773.090	2.0
3523.0323	14.01	-.10	101023.310	1.5	103861.000	.5
3523.3179	27.00	-3.07	43537.710	1.5	46375.170	1.5
3524.6346	12.02	-1.08	581734.700	1.0	584571.100	2.0
3524.7961	27.00	-3.24	42269.320	4.5	45105.590	3.5
3524.8807	7.00	-1.96	111326.798	2.5	114163.000	1.5
3525.4462	10.00	-2.66	168967.353	1.0	171803.100	2.0
3525.5171	7.00	-1.67	104144.790	.5	106980.480	.5
3525.5544	27.00	-2.44	48217.320	3.5	51052.980	3.5
3525.5755	14.00	-3.07	61562.477	3.0	64398.120	2.0
3525.6165	28.01	-.82	103025.580	2.5	105861.190	2.5
3525.6911	23.00	-4.28	39341.760	3.5	42177.310	4.5
3525.7906	29.01	-1.90	138898.430	1.0	141733.900	2.0
3525.8279	22.00	-7.84	13981.750	1.0	16817.190	1.0
3526.0269	24.00	-4.35	31355.210	2.0	34190.490	2.0
3526.1637	10.00	-2.29	169727.630	1.0	172562.800	1.0
3526.4498	6.00	-3.85	84121.220	0.0	86956.160	1.0
3527.0084	18.00	-1.02	121068.804	1.0	123903.295	2.0
3527.2460	19.02	-2.14	242548.000	.5	245382.300	.5
3527.6070	12.00	-4.46	51872.526	1.0	54706.536	1.0
3527.6817	28.01	-4.62	110573.360	2.5	113407.310	2.5
3527.7813	28.01	-4.91	128803.230	2.5	131637.100	3.5
3527.8684	30.02	-4.56	300108.100	3.0	302941.900	3.0
3527.9966	26.00	-4.44	48928.423	2.0	51762.120	2.0
3528.0900	20.00	-3.44	45425.358	1.0	48258.980	2.0
3528.1722	17.00	-2.50	92140.127	1.5	94973.683	.5
3528.3615	26.00	-3.86	48531.896	3.0	51365.300	3.0
3528.6131	7.00	-4.47	111326.798	2.5	114160.000	1.5
3528.6131	7.00	-3.54	111326.798	2.5	114160.000	2.5
3529.3007	28.01	-4.95	128853.910	4.5	131686.560	4.5
3529.3181	18.00	-2.71	122036.134	4.0	124868.770	3.0
3529.3181	18.00	-1.28	122036.134	4.0	124868.770	4.0
3529.3368	14.00	-2.34	57468.239	2.0	60300.860	2.0
3529.7903	10.00	-4.22	167011.563	2.0	169843.820	2.0
3529.8215	14.00	-.89	54185.264	1.0	57017.496	2.0
3530.3476	9.02	-.73	441406.460	3.5	444238.270	4.5
3530.4186	7.00	-1.10	106980.480	.5	109812.233	.5
3530.8974	17.00	-4.53	97354.057	1.5	100185.426	2.5
3531.1544	17.00	-1.29	97354.057	1.5	100185.220	1.5
3531.2043	17.00	-1.62	97338.887	2.5	100170.010	2.5
3531.4163	17.00	-2.49	97338.887	2.5	100169.840	3.5
3531.4238	10.00	-1.91	168967.353	1.0	171798.300	1.0
3531.4824	19.00	-1.51	31765.370	.5	34596.270	1.5
3531.4824	19.00	-1.82	31765.370	.5	34596.270	.5
3531.8193	6.00	-3.13	86519.470	1.0	89350.100	2.0
3531.9204	14.00	-4.62	61303.381	3.0	64133.930	4.0
3531.9939	25.00	-2.65	59470.140	3.5	62300.630	4.5
3532.2435	17.00	-3.62	85442.430	1.5	88272.720	.5
3532.3783	7.00	-2.17	104615.440	1.5	107445.622	1.5
3533.1136	26.00	-3.01	45333.834	2.0	48163.427	2.0
3533.3546	30.02	-4.82	300123.400	5.0	302952.800	5.0
3533.3546	30.02	-3.08	300123.400	5.0	302952.800	6.0
3533.8292	29.01	-4.96	135990.150	3.0	138819.170	3.0
3533.9716	18.00	-2.46	122036.134	4.0	124865.040	3.0
3534.4277	17.00	-1.69	97674.330	2.5	100502.871	1.5
3534.4664	24.00	-4.74	31106.370	4.0	33934.880	3.0
3534.8788	26.02	-3.11	199327.950	1.0	202156.130	2.0
3535.1451	18.00	-4.40	123261.593	2.0	126089.560	3.0
3535.3463	7.00	-1.76	111198.848	.5	114026.654	.5
3535.7927	10.00	-1.92	168924.651	2.0	171752.100	1.0
3535.9165	26.00	-4.38	50981.020	0.0	53808.370	1.0
3535.9415	17.00	-1.26	97338.887	2.5	100166.217	3.5
3535.9928	22.00	-3.93	36132.210	4.0	38959.499	4.0
3536.0791	28.01	-4.39	131075.780	1.5	133903.000	1.5
3536.0828	14.00	-3.56	61306.713	4.0	64133.930	4.0
3536.5920	6.00	-1.50	84950.360	2.0	87777.170	3.0
3536.6045	30.02	-3.23	300126.000	4.0	302952.800	5.0
3536.6433	12.00	-.92	54192.256	3.0	57019.025	2.0
3536.6908	12.00	-1.84	54192.294	2.0	57019.025	2.0
3536.7434	12.00	-2.84	54192.336	1.0	57019.025	2.0
3536.8747	26.00	-2.55	44551.325	3.0	47377.909	4.0
3537.0550	18.00	-3.50	123385.130	0.0	126211.570	1.0
3537.3052	26.01	-.83	84710.660	3.5	87536.900	3.5
3537.4054	24.00	-4.09	31364.330	3.0	34190.490	2.0
3537.4304	25.00	-4.53	59652.900	5.5	62479.040	4.5
3537.4367	14.00	-1.53	45276.188	1.0	48102.323	2.0
3537.4429	25.00	-3.58	59600.350	2.5	62426.480	3.5
3537.4930	24.00	-4.22	41224.780	4.0	44050.870	4.0
3537.7997	14.00	-.85	60815.925	2.0	63641.770	3.0
3538.2192	17.00	-2.90	91906.790	2.5	94732.300	3.5
3538.3193	12.00	-1.36	54192.294	2.0	57017.724	1.0
3538.3719	12.00	-1.67	54192.336	1.0	57017.724	1.0
3538.5598	14.00	-1.41	59110.892	2.0	61936.130	1.0
3538.9330	27.00	-2.43	48217.320	3.5	51042.260	2.5
3539.1811	12.00	-1.54	54192.336	1.0	57017.078	0.0
3539.3866	26.00	-4.88	49242.872	3.0	52067.450	2.0
3539.4593	25.00	-2.80	59470.140	3.5	62294.660	3.5
3539.4768	18.00	-1.54	122036.134	4.0	124860.640	4.0
3539.4768	18.00	-.22	122036.134	4.0	124860.640	5.0
3539.5094	22.00	-1.75	38544.380	3.0	41368.860	4.0
3539.6761	10.00	-1.66	168967.353	1.0	171791.700	2.0
3539.6849	25.00	-4.33	31001.150	2.5	33825.490	2.5
3539.7977	24.00	-4.90	45734.320	2.0	48558.570	2.0
3539.8102	28.01	-2.35	115739.150	4.5	118563.390	3.5
3539.8603	13.01	-1.56	142360.800	0.0	145185.000	1.0
3539.9731	27.00	-3.57	43921.890	2.5	46746.000	2.5
3539.9982	22.00	-3.61	34535.040	2.0	37359.130	2.0
3540.0233	28.01	-4.81	128862.490	4.5	131686.560	4.5
3540.5975	14.00	-.88	60381.278	1.0	63204.890	2.0
3540.7380	15.00	-1.27	77770.600	.5	80594.100	1.5
3540.9887	28.01	-3.44	53601.190	1.5	56424.490	1.5
3541.2145	23.00	-3.84	39127.230	1.5	41950.350	2.5
3541.2271	26.01	-4.33	47389.820	1.5	50212.930	2.5
3541.7038	6.00	-1.10	84950.360	2.0	87773.090	2.0
3541.7665	10.00	-2.05	169748.150	1.0	172570.830	1.0
3541.7791	9.00	-1.24	129772.830	2.5	132595.500	2.5
3542.1719	8.00	-2.04	105912.043	1.0	108734.400	1.0
3542.1719	8.00	-1.56	105912.043	1.0	108734.400	2.0
3542.1719	8.00	-3.21	105912.043	2.0	108734.400	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3542.1719	8.00	-2.04	105912.043	2.0	108734.400	2.0
3542.1719	8.00	-1.29	105912.043	2.0	108734.400	3.0
3542.1719	8.00	-1.91	105912.043	0.0	108734.400	1.0
3542.2397	17.00	-2.02	92151.380	.5	94973.683	.5
3542.3689	13.01	-1.99	142362.800	1.0	145185.000	1.0
3542.3689	13.01	-1.77	142362.800	1.0	145185.000	0.0
3542.3689	13.01	-3.08	142362.800	1.0	145185.000	2.0
3542.3689	13.01	-1.51	142362.800	2.0	145185.000	1.0
3542.3689	13.01	-1.90	142362.800	2.0	145185.000	2.0
3542.3689	13.01	-1.15	142362.800	3.0	145185.000	2.0
3542.6701	6.00	-2.38	84984.970	3.0	87806.930	3.0
3542.7078	28.01	-2.95	118877.090	1.5	121699.020	1.5
3542.9338	29.01	-.68	136919.350	3.0	139741.100	3.0
3542.9590	18.01	-.98	202155.860	2.5	204977.590	2.5
3543.0518	17.00	-.91	91660.580	2.5	94482.236	2.5
3543.2603	28.01	-2.77	114942.420	1.5	117763.910	1.5
3543.4236	23.00	-4.04	34167.840	2.5	36989.200	2.5
3543.5743	10.00	-1.35	169748.150	1.0	172569.390	2.0
3543.7501	15.00	-.34	76875.400	1.5	79696.500	1.5
3543.8758	15.00	-4.28	72884.400	2.5	75705.400	3.5
3544.2150	28.01	-3.35	128799.720	.5	131620.450	1.5
3544.7881	14.00	-1.83	61198.036	0.0	64018.310	1.0
3545.0067	13.01	-2.28	146432.800	4.0	149252.900	4.0
3545.0067	13.01	-2.42	146432.800	4.0	149252.900	4.0
3545.0067	13.01	-.66	146432.800	5.0	149252.900	4.0
3545.0067	13.01	-4.85	146432.800	5.0	149252.900	4.0
3545.0067	13.01	-3.76	146432.800	5.0	149252.900	4.0
3545.0067	13.01	-.66	146432.800	5.0	149252.900	4.0
3545.0067	13.01	-4.04	146432.800	4.0	149252.900	5.0
3545.0067	13.01	-2.30	146432.800	5.0	149252.900	5.0
3545.0067	13.01	-2.40	146432.800	5.0	149252.900	5.0
3545.0067	13.01	-.58	146432.800	6.0	149252.900	5.0
3545.0067	13.01	-.76	146432.800	4.0	149252.900	3.0
3545.4757	7.00	-.80	111326.798	2.5	114146.525	2.5
3545.8228	7.00	-.28	107037.069	2.5	109856.520	1.5
3546.0479	20.00	-4.52	42170.558	3.0	44989.830	2.0
3546.0881	22.00	-3.62	41556.330	5.0	44375.570	5.0
3546.2517	22.00	-2.31	44375.570	5.0	47194.680	4.0
3546.3019	20.02	-4.94	371061.300	3.0	373880.370	3.0
3546.3900	20.02	-3.39	371061.370	4.0	373880.370	3.0
3546.5700	18.00	-1.32	118651.447	1.0	121470.304	0.0
3546.7058	7.00	-.62	107628.283	1.5	110447.032	1.5
3547.1324	27.00	-4.68	46260.020	1.5	49078.430	1.5
3547.1576	6.00	-2.28	84935.340	1.0	87753.730	2.0
3547.7077	7.00	-1.72	104810.330	2.5	107628.283	1.5
3547.7228	26.00	-4.22	51294.262	3.0	54112.203	2.0
3547.9633	10.00	-1.45	169748.150	1.0	172565.900	1.0
3548.0766	26.02	-2.99	199212.720	4.0	202030.380	3.0
3548.7907	26.00	-3.83	47606.092	5.0	50423.185	4.0
3548.9305	18.00	-1.65	121932.908	1.0	124749.890	0.0
3548.9709	21.00	-3.96	38657.930	2.5	41474.880	1.5
3549.2480	10.00	-1.75	169748.150	1.0	172564.880	0.0
3549.2732	6.00	-2.38	86956.160	1.0	89772.870	2.0
3549.4295	26.00	-4.85	53966.720	2.0	56783.306	3.0
3549.5127	25.00	-4.67	56567.930	1.5	59384.450	1.5
3549.9148	7.00	-.40	106996.032	1.5	109812.233	.5
3550.1619	26.00	-4.52	45220.662	3.0	48036.667	2.0
3550.1682	29.01	-3.81	148559.300	2.0	151375.300	2.0
3550.2274	17.00	-.95	97354.057	1.5	100170.010	2.5
3550.3446	6.00	-4.45	86416.550	1.0	89232.410	1.0
3550.4329	23.00	-4.87	34167.840	2.5	36983.630	1.5
3550.7305	10.00	-.82	163012.621	1.0	165828.175	2.0
3550.8112	24.00	-4.04	52003.060	1.0	54818.550	2.0
3550.8377	7.00	-1.82	104221.600	1.5	107037.069	2.5
3551.3410	25.00	-1.98	59817.700	2.5	62632.770	3.5
3551.7574	15.00	-4.22	65156.400	1.5	67971.140	.5
3552.2243	6.00	-4.50	78529.620	3.0	81343.990	2.0
3552.8303	27.00	-3.99	45904.680	1.5	48718.570	2.5
3552.8681	25.00	-4.21	59480.800	2.5	62294.660	3.5
3552.9300	17.00	-3.01	96594.096	.5	99407.907	.5
3553.0285	14.00	-2.82	59636.667	1.0	62450.400	1.0
3553.0828	23.00	-4.49	39300.480	2.5	42114.170	3.5
3553.3227	10.00	-3.66	167001.130	3.0	169814.630	2.0
3553.3278	18.00	-1.79	121068.804	1.0	123882.300	1.0
3553.3859	6.00	-3.23	86965.450	2.0	89778.900	3.0
3553.4705	7.00	-2.06	111213.271	1.5	114026.654	.5
3553.8659	10.01	-4.85	276511.820	.5	279324.890	1.5
3554.0883	28.00	-3.14	42605.964	3.0	45418.858	2.0
3554.2576	28.01	-4.77	52205.950	3.5	55018.710	2.5
3554.5735	26.01	-2.58	84527.890	4.5	87340.400	5.5
3554.6114	28.01	-1.19	103025.580	2.5	105838.060	3.5
3554.6342	10.00	-4.29	167026.988	1.0	169839.450	1.0
3554.7050	14.00	-.16	54205.090	2.0	57017.496	2.0
3555.4597	17.00	-4.20	98419.100	2.5	101230.909	3.5
3555.7999	6.00	-2.65	78293.490	1.0	81105.030	1.0
3556.6347	15.00	-4.74	67113.820	2.5	69924.700	2.5
3556.6474	27.00	-4.62	50105.050	1.5	52915.920	.5
3556.9005	7.00	-1.87	103667.130	1.5	106477.800	.5
3557.0144	15.00	-2.05	65450.020	1.5	68260.600	.5
3557.2169	22.00	-1.59	38670.710	4.0	41481.130	5.0
3557.3561	10.00	-4.82	169516.990	1.0	172327.300	0.0
3557.3561	10.00	-4.82	169516.990	1.0	172327.300	0.0
3557.5460	23.02	-3.86	161588.040	3.5	164398.200	4.5
3557.6093	28.01	-.96	120002.860	3.5	122812.970	3.5
3557.7448	14.00	-1.34	60704.530	3.0	63514.533	4.0
3557.8119	28.01	-4.67	128827.150	3.5	131637.100	3.5
3558.0524	6.00	-3.36	84103.100	2.0	86912.860	1.0
3558.0904	15.00	-2.25	65373.470	.5	68183.200	1.5
3558.3691	18.00	-4.19	123254.990	1.0	126064.500	2.0
3558.6478	22.00	-4.95	31725.750	1.0	34535.040	2.0
3558.9898	27.00	-4.39	44555.710	1.5	47364.730	1.5
3559.2863	14.00	-2.78	61574.814	3.0	64383.600	4.0
3559.4029	14.00	-.89	45293.629	2.0	48102.323	2.0
3559.6361	21.00	-1.62	33707.250	2.5	36515.760	1.5
3560.0607	14.00	-1.92	60962.105	2.0	63770.280	1.0
3560.5997	6.00	-2.23	86965.450	2.0	89773.200	3.0
3560.7391	9.00	-.65	129937.330	1.5	132744.970	1.5
3561.0181	6.00	-1.99	86965.450	2.0	89772.870	2.0
3561.0562	28.01	-4.58	133169.920	3.5	135977.310	4.5
3561.5586	7.00	-.80	107588.469	.5	110395.463	1.5
3561.6119	14.00	-2.87	59034.988	3.0	61841.940	2.0
3562.4394	15.01	-.49	127368.000	2.0	130174.300	2.0
3562.6806	24.00	-4.13	52012.440	2.0	54818.550	2.0
3562.8456	26.00	-4.45	51941.760	0.0	54747.740	1.0
3562.9472	15.00	-1.69	77655.200	3.5	80461.100	3.5
3562.9853	20.02	-3.86	383061.330	2.0	385867.200	3.0
3563.2011	13.01	.56	132213.200	1.0	135018.900	2.0
3563.2520	22.01	-4.58	66816.490	1.5	69622.150	2.5
3563.9887	6.00	-.99	81311.010	0.0	84116.090	1.0
3564.1539	28.01	-3.28	97273.830	2.5	100078.780	1.5
3564.2047	29.01	-3.42	136014.260	2.0	138819.170	3.0
3564.2429	28.00	-.90	46522.965	2.0	49327.845	2.0
3564.3445	15.00	-3.49	72884.400	2.5	75689.200	1.5
3564.4970	28.01	-3.54	96535.870	3.5	99340.550	3.5
3564.7131	22.00	-2.77	44233.650	3.0	47038.160	3.0
3564.8021	17.00	-4.36	98418.890	3.5	101223.330	2.5
3564.8275	18.01	-3.97	200393.020	4.5	203197.440	3.5
3564.8529	18.01	-1.53	208921.200	1.5	211725.600	2.5
3565.0232	18.00	-2.01	121068.804	1.0	123873.070	0.0
3565.0690	17.00	-2.65	98419.100	2.5	101223.330	2.5
3565.4377	20.00	-2.69	44961.757	2.0	47765.697	3.0
3565.8320	24.00	-4.89	41289.170	1.0	44092.800	0.0
3566.0991	20.02	-2.57	383063.780	3.0	385867.200	3.0
3566.1627	6.00	-1.22	84950.360	2.0	87753.730	2.0
3566.3752	7.00	-2.19	104825.080	2.5	107628.283	1.5
3566.7518	18.00	-3.56	123261.593	2.0	126064.500	2.0
3566.7734	20.01	.02	81498.000	.5	84300.890	.5
3567.3589	26.00	-3.44	51945.310	2.0	54747.740	1.0
3567.5499	18.01	-1.38	208923.410	2.5	211725.690	3.5
3567.6236	10.00	-4.65	167794.968	2.0	170597.190	2.0
3567.6644	18.01	-2.68	208923.410	2.5	211725.600	2.5
3568.0591	26.00	-3.47	51945.860	1.0	54747.740	1.0
3568.4667	19.00	-2.11	31069.900	.5	33871.460	.5
3568.6578	29.01	-3.13	117883.140	4.0	120684.550	3.0
3568.8068	10.00	-3.62	167795.897	3.0	170597.190	2.0
3568.8667	17.00	-.84	91680.990	1.5	94482.236	2.5
3568.8743	23.00	-4.12	39127.230	1.5	41928.470	.5
3569.0463	26.00	-3.69	42532.729	3.0	45333.834	2.0
3569.0782	28.01	-3.44	118897.940	2.5	121699.020	1.5
3569.2056	18.01	-2.43	202420.490	.5	205221.470	1.5
3569.5420	14.00	-4.44	61597.404	3.0	64398.120	2.0
3569.7295	14.00	.08	54528.220	2.0	57328.789	1.0
3569.8862	14.00	-4.13	58774.368	3.0	61574.814	3.0
3570.1412	10.00	-4.71	167796.944	2.0	170597.190	2.0
3570.4868	14.00	-3.80	61598.145	2.0	64398.120	2.0
3570.5059	6.00	-1.76	84935.340	1.0	87735.300	1.0
3570.6844	28.01	-4.18	131103.180	2.5	133903.000	1.5
3570.7737	24.00	-4.56	41289.170	1.0	44088.920	1.0
3570.9254	20.00	-2.54	44957.655	1.0	47757.286	2.0
3570.9866	17.00	-4.65	98372.970	1.5	101172.553	1.5
3571.0147	7.00	-.86	107445.622	1.5	110245.183	.5
3571.0160	26.02	-3.05	196901.270	5.0	199700.830	4.0
3571.0198	7.00	-1.24	111271.596	.5	114071.153	1.5
3571.1691	25.00	-4.22	56490.790	2.5	59290.230	3.5
3571.4357	17.00	-4.36	97703.640	1.5	100502.871	1.5
3571.5735	17.00	-3.82	98373.430	2.5	101172.553	1.5
3571.8198	17.00	-3.83	97703.941	2.5	100502.871	1.5
3571.8581	13.01	-.14	132213.200	1.0	135012.100	1.0
3572.6597	26.00	-4.96	48350.620	1.0	51148.892	2.0
3572.7260	18.00	-4.20	123254.990	1.0	126053.210	2.0
3572.7261	28.01	-3.29	128822.230	1.5	131620.450	1.5
3572.7388	14.02	.61	242145.100	1.0	244943.310	2.0
3572.8346	14.00	-1.39	60962.105	2.0	63760.240	3.0
3573.2241	17.00	-.52	94732.300	3.5	97530.130	2.5
3573.7734	6.00	-2.18	78307.630	2.0	81105.030	1.0
3573.8678	7.00	-1.12	107588.469	.5	110385.795	.5
3574.0851	10.00	-3.72	167000.034	4.0	169797.190	3.0
3574.2077	19.00	-1.81	31074.400	1.5	33871.460	.5
3574.3036	20.00	-2.69	44955.670	0.0	47752.655	1.0
3574.5783	6.00	-3.54	84116.090	1.0	86912.860	1.0
3574.7688	14.00	-1.48	58801.524	1.0	61598.145	2.0
3574.9490	15.00	-.29	65450.020	1.5	68246.500	2.5
3575.4861	10.00	-4.89	167001.130	3.0	169797.190	3.0
3575.5244	25.00	-2.73	57305.620	3.5	60101.650	2.5
3575.8186	13.01	-.14	132213.200	1.0	135009.000	0.0
3576.0041	17.00	.40	95897.565	1.5	98693.220	2.5
3576.1652	20.00	-2.96	44961.757	2.0	47757.286	2.0
3576.1882	26.00	-4.00	45509.112	1.0	48304.623	2.0
3576.2535	6.00	-.58	81325.760	1.0	84121.220	0.0
3576.5477	18.01	-.37	202155.860	2.5	204951.090	3.5
3576.6488	10.00	-3.96	167048.669	3.0	169843.820	2.0
3576.7141	7.00	-4.89	112826.900	3.5	115622.000	2.5
3576.8420	20.00	-2.82	44957.655	1.0	47752.655	1.0
3577.3540	26.00	-2.78	51619.140	3.0	54413.740	3.0
3577.8789	28.01	.95	127867.130	4.5	130661.320	5.5
3578.1351	11.00	-1.13	37296.320	.5	40090.310	1.5
3578.4809	28.01	-2.81	114970.190	.5	117763.910	1.5
3578.6602	22.00	-.09	41368.860	4.0	44162.440	4.0
3579.1983	28.01	-4.45	133973.330	2.5	136766.490	2.5
3579.4136	14.00	-.30	54185.264	1.0	56978.256	1.0
3579.7032	18.00	-2.76	122282.134	2.0	125074.900	2.0
3579.7878	11.00	-.88	37297.610	1.5	40090.310	2.5
3579.7878	11.00	-1.83	37297.610	1.5	40090.310	1.5
3580.1724	6.00	-3.10	86506.700	2.0	89299.100	3.0
3580.3520	14.01	.44	111184.720	.5	113976.980	1.5
3580.4288	6.00	-.83	84984.970	3.0	87777.170	3.0
3580.4288	15.00	-.10	65585.000	2.5	68377.200	3.5
3580.8893	10.00	-3.95	167047.609	2.0	169839.450	1.0
3580.9419	13.01	-1.31	144780.200	2.0	147572.000	1.0
3581.0317	24.00	-4.92	41289.170	1.0	44080.900	2.0
3581.1702	7.00	-2.53	104654.000	.5	107445.622	1.5
3581.1766	18.00	-4.94	123261.593	2.0	126053.210	2.0
3581.5051	26.00	-4.82	40842.130	3.0	43633.491	2.0
3581.8400	7.00	-3.74	112826.900	3.5	115618.000	2.5
3582.0273	17.00	-3.68	94468.857	.5	97259.811	1.5
3582.0992	20.00	-3.95	44961.757	2.0	47752.655	1.0
3582.1146	28.00	-1.40	46522.965	2.0	49313.851	3.0
3582.1608	29.01	-2.79	136919.350	3.0	139710.200	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3582.6537	18.00	-1.59	122282.134	2.0	125072.600	1.0
3582.7809	22.00	-1.68	34535.040	2.0	37325.407	2.0
3582.8284	6.00	-.81	81325.760	1.0	84116.090	1.0
3583.1597	10.00	-3.88	167794.968	2.0	170585.040	1.0
3583.4782	10.00	-.02	163038.351	2.0	165828.175	2.0
3583.9150	18.00	-1.99	123505.536	2.0	126295.020	3.0
3584.0577	14.00	-3.01	61562.477	3.0	64351.850	3.0
3584.0692	18.00	-.55	123505.536	2.0	126294.900	3.0
3584.3313	24.00	-2.13	35807.900	2.0	38597.060	1.0
3584.3673	7.00	-1.37	111501.368	1.5	114290.500	2.5
3584.4354	26.00	-3.37	45333.834	2.0	48122.913	3.0
3584.8969	22.00	-8.29	14028.470	2.0	16817.190	1.0
3585.0511	15.00	-1.26	77833.800	1.5	80622.400	2.5
3585.4562	14.00	-2.61	60962.105	2.0	63750.390	1.0
3585.4883	14.02	-.09	242145.100	1.0	244933.360	1.0
3585.6683	6.00	-2.26	84984.970	3.0	87773.090	2.0
3585.8098	9.00	-1.96	130221.120	1.5	133009.130	.5
3585.8227	29.01	-4.18	148631.200	3.0	151419.200	3.0
3585.8819	14.00	-2.68	58786.860	3.0	61574.814	3.0
3585.9538	14.00	-2.47	61563.952	4.0	64351.850	3.0
3585.9937	17.00	-3.22	91680.990	1.5	94468.857	.5
3586.5688	28.01	-3.96	115085.360	3.5	117872.780	2.5
3586.6203	18.01	-3.44	199679.760	2.5	202467.140	1.5
3586.7000	18.00	-3.57	119847.810	1.0	122635.128	2.0
3586.8133	28.01	-3.58	114874.880	2.5	117662.110	1.5
3586.9420	26.02	-3.00	202156.130	2.0	204943.260	2.0
3587.2122	22.00	-4.96	39265.800	2.0	42052.720	3.0
3587.3281	24.00	-4.06	52031.720	3.0	54818.550	2.0
3588.3634	20.00	.02	37751.867	2.0	40537.893	3.0
3588.4819	14.00	-1.13	58788.880	4.0	61574.814	3.0
3588.5256	22.00	.47	43744.550	4.0	46530.450	4.0
3588.8606	26.01	-2.79	84685.160	3.5	87470.800	4.5
3589.0293	7.00	-1.74	111285.644	1.5	114071.153	1.5
3589.4327	14.00	-1.95	60705.464	3.0	63490.660	3.0
3589.4469	26.00	-4.97	51228.595	5.0	54013.780	5.0
3589.6982	28.01	-4.76	118442.810	1.5	121227.800	2.5
3589.7240	28.01	-.05	119656.250	3.5	122441.220	4.5
3589.7240	24.00	-4.84	45722.590	0.0	48507.560	1.0
3589.7626	6.00	-2.32	84950.360	2.0	87735.300	1.0
3590.0114	10.00	-2.66	168967.353	1.0	171752.100	1.0
3590.0720	13.01	-.42	146414.500	4.0	149199.200	3.0
3590.0720	13.01	-1.34	146414.500	4.0	149199.200	3.0
3590.0720	13.01	-2.13	146414.500	3.0	149199.200	3.0
3590.3093	10.00	-4.18	169502.284	3.0	172286.800	2.0
3590.3093	10.00	-4.18	169502.284	3.0	172286.800	2.0
3590.7425	26.00	-2.71	51016.720	5.0	53800.900	5.0
3590.8070	26.00	-3.03	51827.590	2.0	54611.720	2.0
3590.8457	15.00	-.69	75104.600	.5	77888.700	1.5
3591.0057	14.00	-2.49	60705.464	3.0	63489.440	2.0
3591.1166	20.01	.32	81517.000	1.5	84300.890	.5
3591.4004	26.00	-3.42	51630.070	2.0	54413.740	3.0
3591.4649	14.02	-.09	242145.100	1.0	244928.720	0.0
3591.5810	29.01	-2.61	136035.640	3.0	138819.170	3.0
3591.6894	14.00	-.68	60705.464	3.0	63488.910	4.0
3591.9811	6.00	-1.49	84935.340	1.0	87718.560	1.0
3592.0133	7.00	-3.64	112319.805	1.5	115103.000	2.5
3592.0198	28.01	-4.87	128853.910	4.5	131637.100	3.5
3592.4328	29.01	-4.61	130945.000	1.0	133727.870	2.0
3592.4742	10.00	-4.37	169508.562	2.0	172291.400	2.0
3592.4742	10.00	-4.37	169508.562	2.0	172291.400	2.0
3592.8512	14.00	-1.91	60705.464	3.0	63488.010	3.0
3593.0009	18.01	-4.60	201351.550	2.5	204133.980	2.5
3593.2721	6.00	-.96	84851.530	1.0	87633.750	2.0
3593.8198	18.00	-.63	122086.974	2.0	124868.770	3.0
3593.9439	17.01	-3.47	144344.000	2.0	147125.700	3.0
3593.9568	19.00	-5.00	31069.900	.5	33851.590	1.5
3594.1738	7.00	-2.99	104664.100	1.5	107445.622	1.5
3594.2721	10.00	-3.63	167796.944	2.0	170578.390	1.0
3594.4219	28.01	-3.96	116145.690	3.5	118927.020	4.5
3594.7063	28.01	-2.71	114052.040	3.5	116833.150	4.5
3595.1328	15.00	-2.60	67113.820	2.5	69894.600	1.5
3595.1329	29.01	-3.22	133984.600	3.0	136765.380	4.0
3595.1846	26.00	-2.86	45509.112	1.0	48289.852	1.0
3595.2104	9.02	-4.90	441276.720	2.5	444057.440	1.5
3595.4122	10.00	-3.79	169501.636	4.0	172282.200	3.0
3595.4122	10.00	-3.79	169501.636	4.0	172282.200	3.0
3595.5194	10.00	-4.75	166967.669	0.0	169748.150	1.0
3595.5272	14.00	-1.19	45321.848	3.0	48102.323	2.0
3595.5673	20.00	-3.39	37757.449	3.0	40537.893	3.0
3595.6604	14.00	-2.78	60706.558	1.0	63486.930	1.0
3595.7600	7.00	-4.27	112319.805	1.5	115100.100	2.5
3596.1610	10.00	-4.64	169488.415	1.0	172268.400	1.0
3596.1610	10.00	-4.64	169488.415	1.0	172268.400	1.0
3596.2619	26.00	-3.91	48928.423	2.0	51708.330	2.0
3596.4391	26.02	-2.89	199139.760	5.0	201919.530	4.0
3596.6720	23.00	-4.25	39241.340	2.5	42020.930	3.5
3596.7975	17.00	-1.33	92194.190	1.5	94973.683	.5
3597.5780	23.00	-2.77	35225.040	2.5	38003.930	1.5
3597.9535	23.00	-4.31	20830.200	.5	23608.800	1.5
3598.4508	18.00	-2.87	122086.974	2.0	124865.190	2.0
3598.4715	12.02	-.84	581567.500	0.0	584345.700	1.0
3598.6451	18.00	-1.89	122086.974	2.0	124865.040	3.0
3599.1633	18.00	-1.89	122282.134	2.0	125059.800	2.0
3599.2229	14.01	.13	111184.720	.5	113962.340	.5
3599.2812	17.00	-.31	94482.236	2.5	97259.811	1.5
3599.3655	28.01	-3.81	116145.690	3.5	118923.200	3.5
3599.5857	6.00	-1.44	81325.760	1.0	84103.100	2.0
3599.6622	10.00	-4.49	167807.759	1.0	170585.040	1.0
3599.6895	9.00	-2.06	130221.120	1.5	132998.380	1.5
3599.7413	27.00	-4.79	46706.830	3.5	49484.050	3.5
3599.9617	22.00	-4.79	43467.550	2.0	46244.600	2.0
3600.4414	23.02	-2.97	159146.600	2.5	161923.280	2.5
3600.5451	29.01	-4.40	148642.600	2.0	151419.200	3.0
3600.6229	19.00	-.86	31695.890	2.5	34472.430	1.5
3600.9602	19.00	-1.81	31696.150	1.5	34472.430	1.5
3601.2844	6.00	-1.19	84935.340	1.0	87711.370	0.0
3601.2844	19.00	-1.11	31696.150	1.5	34472.180	.5
3601.6620	26.00	-4.70	44676.963	4.0	47452.702	4.0
3601.6828	10.00	-4.26	170289.677	3.0	173065.400	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3601.6828	10.00	-4.26	170289.677	3.0	173065.400	2.0
3601.7048	17.00	-3.82	91538.500	1.5	94314.206	1.5
3601.7904	6.00	-.22	84984.970	3.0	87760.610	4.0
3602.5302	19.00	-1.58	31765.370	.5	34540.440	1.5
3602.5692	10.00	-1.38	169797.190	3.0	172572.230	3.0
3602.6990	10.00	-2.68	169797.190	3.0	172572.130	2.0
3602.8029	19.00	-1.88	31765.370	.5	34540.230	.5
3602.8159	26.00	-4.25	51836.870	1.0	54611.720	2.0
3602.8418	26.02	-3.00	196886.010	6.0	199660.840	5.0
3603.0496	9.02	-4.54	466468.990	4.5	469243.660	4.5
3603.2898	7.00	-.43	107445.622	1.5	110220.107	1.5
3603.2963	28.01	-4.69	133169.920	3.5	135944.400	3.5
3603.3587	7.00	-2.35	104221.600	1.5	106996.032	1.5
3603.3613	17.00	-2.45	98418.890	3.5	101193.320	3.5
3603.3613	17.00	-.91	98418.890	3.5	101193.320	4.5
3603.3872	10.00	-4.95	169516.990	1.0	172291.400	1.0
3603.3872	10.00	-4.95	169516.990	1.0	172291.400	1.0
3603.6340	17.00	-1.34	98419.100	2.5	101193.320	3.5
3604.0095	26.00	-2.39	47929.981	4.0	50703.912	5.0
3604.2576	25.00	-2.22	57621.900	1.5	60395.640	1.5
3604.9075	24.00	-4.86	45734.320	2.0	48507.560	1.0
3605.0037	14.00	-3.46	54205.090	2.0	56978.256	1.0
3605.1245	7.00	-0.00	107628.283	1.5	110401.356	2.5
3605.3884	6.00	-.98	84935.340	1.0	87708.210	2.0
3605.4405	18.01	-2.36	200234.860	2.5	203007.690	1.5
3605.4678	10.00	-4.36	166975.341	1.0	169748.150	1.0
3605.5393	26.00	-4.95	48531.896	3.0	51304.650	4.0
3605.6980	7.00	-1.90	111501.368	1.5	114274.000	2.5
3605.7396	29.01	-4.55	148631.200	3.0	151403.800	2.0
3606.0257	10.00	-2.06	170578.390	1.0	173350.770	1.0
3606.1558	6.00	-1.57	81105.030	1.0	83877.310	1.0
3606.2598	10.00	-2.31	169797.190	3.0	172569.390	2.0
3606.3900	6.00	-.81	81343.990	2.0	84116.090	1.0
3607.0536	38.01	-.94	53286.310	0.0	56058.656	0.0
3607.5612	29.01	-3.34	148631.200	3.0	151402.400	3.0
3607.6783	10.00	-1.02	170578.390	1.0	173349.500	2.0
3607.7174	10.00	-2.75	170578.390	1.0	173349.470	2.0
3607.8997	6.00	-1.66	87002.260	3.0	89773.200	3.0
3607.9608	10.00	-2.15	169797.190	3.0	172568.083	3.0
3608.2513	10.00	-.72	169797.190	3.0	172567.860	4.0
3608.3021	10.00	-4.81	167807.759	1.0	170578.390	1.0
3608.3294	6.00	-2.56	87002.260	3.0	89772.870	2.0
3608.5430	18.00	-1.39	122086.974	2.0	124857.420	2.0
3608.7384	18.00	-2.19	122086.974	2.0	124857.270	1.0
3608.9938	7.00	-4.98	112826.900	2.5	115597.000	1.5
3609.3847	14.00	-1.40	59190.460	1.0	61960.260	0.0
3609.7496	12.01	-1.57	112129.200	.5	114898.720	1.5
3609.7626	29.01	-1.65	133984.600	3.0	136754.110	2.0
3609.7626	22.00	-8.65	14105.680	3.0	16875.190	2.0
3609.8799	28.01	-3.68	131133.580	2.5	133903.000	1.5
3610.0363	13.01	-.32	142362.800	3.0	145132.100	4.0
3610.3883	24.00	-4.97	45719.200	1.0	48488.230	0.0
3610.7404	6.00	-.52	84984.970	3.0	87753.730	2.0
3610.8839	28.01	-4.61	116145.690	3.5	118914.340	4.5
3610.9712	7.00	-2.66	104859.700	1.5	107628.283	1.5
3611.3469	14.00	-1.64	60815.925	2.0	63584.220	1.0
3611.3926	25.01	.59	114344.840	2.0	117113.100	3.0
3611.4708	6.00	-.86	84950.360	2.0	87718.560	1.0
3611.7057	28.01	-1.03	120044.950	4.5	122812.970	3.5
3611.8101	26.02	-2.66	199262.440	3.0	202030.380	3.0
3612.2669	12.01	-1.87	112129.200	.5	114896.790	.5
3612.3465	28.00	-2.84	44262.619	2.0	47030.148	3.0
3612.7368	25.01	.65	114345.870	3.0	117113.100	3.0
3612.7368	25.01	.85	114345.870	3.0	117113.100	4.0
3612.8020	7.00	-.26	107628.283	1.5	110395.463	1.5
3613.0097	10.00	-4.16	167047.609	2.0	169814.630	2.0
3613.1037	55.00	-1.02	11732.308	0.0	14500.012	0.0
3613.3322	7.00	-.61	107445.622	1.5	110212.396	2.5
3613.5856	28.01	-3.51	128853.870	2.5	131620.450	1.5
3614.2126	19.00	-1.14	28999.270	.5	31765.370	.5
3614.2126	13.01	-.85	142362.800	2.0	145128.900	3.0
3614.2126	13.01	-1.75	142362.800	3.0	145128.900	3.0
3614.3943	10.00	-4.83	167048.669	3.0	169814.630	2.0
3614.6961	10.00	-1.76	170585.040	1.0	173350.770	1.0
3615.4779	10.00	-4.54	169526.268	2.0	172291.400	1.0
3615.4779	10.00	-4.54	169526.268	2.0	172291.400	1.0
3615.9775	6.00	-1.75	78340.280	1.0	81105.030	1.0
3616.2848	10.00	-4.08	169526.885	3.0	172291.400	2.0
3616.2848	10.00	-4.08	169526.885	3.0	172291.400	2.0
3616.3959	10.00	-1.06	170585.040	1.0	173349.470	2.0
3616.7493	12.01	-.39	113030.250	.5	115794.410	1.5
3616.7676	22.00	-4.99	37538.804	2.0	40302.950	3.0
3616.9063	25.01	-.59	114349.060	5.0	117113.100	4.0
3617.0371	25.01	.45	114349.060	5.0	117113.000	5.0
3617.1680	25.01	1.22	114349.060	5.0	117112.900	6.0
3617.1797	17.00	-3.75	97739.040	.5	100502.871	1.5
3617.1810	18.01	-1.58	186890.950	2.5	189654.780	2.5
3617.3512	13.01	-1.38	142362.800	2.0	145126.500	2.0
3617.3512	13.01	-.65	142362.800	1.0	145126.500	2.0
3617.3512	13.01	-2.93	142362.800	3.0	145126.500	2.0
3617.5462	17.00	-3.12	97739.320	1.5	100502.871	1.5
3617.6222	7.00	-3.68	112294.007	.5	115057.500	1.5
3618.0582	26.00	-3.02	51361.460	3.0	54124.620	4.0
3618.2075	7.00	-1.88	110194.654	1.5	112957.700	2.5
3618.2414	6.00	-.52	84950.360	2.0	87713.380	3.0
3618.3332	28.01	-2.79	101740.270	3.5	104503.220	2.5
3618.4510	13.00	-4.00	43831.090	2.5	46593.950	2.5
3618.4563	13.00	-2.70	43831.094	3.5	46593.950	2.5
3618.6737	22.00	-2.44	34327.960	1.0	37090.650	0.0
3618.8021	7.00	-2.33	104683.030	2.5	107445.622	1.5
3619.2763	13.00	-2.85	43831.090	2.5	46593.320	1.5
3619.3680	18.01	-4.94	201351.550	2.5	204113.710	1.5
3619.4860	20.01	-1.93	86727.060	2.5	89489.130	2.5
3619.4860	20.01	-.63	86727.060	3.5	89489.130	2.5
3619.6433	18.00	-2.28	119847.810	1.0	122609.760	1.0
3619.8568	26.00	-2.25	44243.668	5.0	47005.455	5.0
3620.1740	7.00	-1.00	107588.469	.5	110350.014	.5
3620.4690	12.01	-.14	113033.090	1.5	115794.410	2.5
3620.4690	12.01	-1.09	113033.090	1.5	115794.410	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3620.6264	29.01	-4.66	148642.600	2.0	151403.800	2.0
3621.0592	20.01	-.79	86727.060	2.5	89487.930	1.5
3621.1103	18.00	.10	116999.389	2.0	119760.220	1.0
3621.4474	17.00	-3.01	96594.096	.5	99354.670	1.5
3621.4789	22.00	-2.37	41615.020	6.0	44375.570	5.0
3621.5026	10.00	-4.94	169526.268	2.0	172286.800	2.0
3621.5026	10.00	-4.94	169526.268	2.0	172286.800	2.0
3621.6888	25.00	-4.65	56356.210	3.5	59116.600	2.5
3621.7361	17.00	-4.53	99765.906	2.5	102526.260	3.5
3621.8069	15.00	-1.25	77833.800	1.5	80594.100	1.5
3622.0168	26.01	-2.17	84710.660	3.5	87470.800	4.5
3622.3134	14.00	-3.28	54257.582	3.0	57017.496	2.0
3622.4132	10.00	-4.44	169508.562	2.0	172268.400	1.0
3622.4132	10.00	-4.44	169508.562	2.0	172268.400	1.0
3622.4631	29.01	-3.66	148642.600	2.0	151402.400	3.0
3622.7650	26.02	-4.24	196901.270	5.0	199660.840	5.0
3622.9554	14.00	-1.54	60962.105	2.0	63721.530	2.0
3622.9751	28.01	-4.82	133973.330	2.5	136732.740	1.5
3623.1195	13.01	-2.43	142179.800	1.0	144939.100	1.0
3623.3689	6.00	-.06	81343.990	2.0	84103.100	2.0
3623.5896	14.00	-1.34	57541.918	1.0	60300.860	2.0
3623.6711	7.00	-1.86	104221.600	1.5	106980.480	.5
3623.9863	24.00	-4.89	48488.230	0.0	51246.870	1.0
3624.0927	22.00	-3.69	36200.940	5.0	38959.499	4.0
3624.2872	13.00	-2.15	43335.013	.5	46093.424	1.5
3624.5710	17.00	-.79	98383.430	4.5	101141.625	4.5
3624.7668	18.00	-3.62	121068.804	1.0	123826.850	2.0
3624.8561	8.00	-.72	103869.968	2.0	106627.946	1.0
3624.8929	6.00	-3.74	86412.050	2.0	89170.000	1.0
3624.9350	8.00	-.94	103870.028	1.0	106627.946	1.0
3624.9521	17.00	-3.14	98383.720	3.5	101141.625	4.5
3625.0244	6.00	-2.35	84950.360	2.0	87708.210	2.0
3625.1427	23.00	-3.54	39241.340	2.5	41999.100	1.5
3625.1428	17.00	-2.54	98383.430	4.5	101141.190	3.5
3625.2294	8.00	-1.42	103870.252	0.0	106627.946	1.0
3625.2741	19.00	-.84	29007.710	1.5	31765.370	.5
3625.3110	7.00	-3.95	111501.368	1.5	114259.000	1.5
3625.3530	10.00	-2.44	169814.630	2.0	172572.230	3.0
3625.4688	7.00	-1.42	107628.283	1.5	110385.795	.5
3625.4846	10.00	-1.44	169814.630	2.0	172572.130	2.0
3625.5240	17.00	-1.59	98383.720	3.5	101141.190	3.5
3625.5293	18.00	-3.65	122282.134	2.0	125039.600	1.0
3626.0237	26.01	-.41	84844.810	2.5	87601.900	1.5
3626.2999	17.00	-2.29	91906.790	2.5	94663.670	1.5
3626.3525	27.00	-3.03	48443.760	2.5	51200.600	1.5
3626.5367	19.00	-1.21	30185.240	2.5	32941.940	1.5
3626.8129	28.01	-3.77	118294.170	3.5	121050.660	2.5
3626.8800	13.00	-1.89	43337.877	1.5	46094.316	2.5
3627.1945	10.00	-2.23	169814.630	2.0	172570.830	1.0
3627.1945	19.00	-2.17	30185.740	1.5	32941.940	1.5
3627.1945	13.01	.56	146496.700	2.0	149252.900	3.0
3627.5762	29.01	-2.17	118163.500	2.0	120919.410	1.0
3627.6947	27.00	-3.53	48443.760	2.5	51199.580	3.5
3628.0185	26.00	-3.84	45595.046	0.0	48350.620	1.0
3628.0541	13.00	-2.85	43337.877	1.5	46093.424	1.5
3628.2345	25.00	-4.81	59817.700	2.5	62573.110	1.5
3628.3596	10.00	-4.43	169526.885	3.0	172282.200	3.0
3628.3596	10.00	-4.43	169526.885	3.0	172282.200	3.0
3628.6427	13.01	-.86	146497.800	3.0	149252.900	3.0
3628.6427	13.01	-1.95	146497.800	3.0	149252.900	4.0
3628.6427	13.01	.64	146497.800	3.0	149252.900	4.0
3628.6981	7.00	-2.09	111271.596	.5	114026.654	.5
3628.9707	26.00	-3.44	45281.816	2.0	48036.667	2.0
3629.0721	7.00	-4.24	110212.396	2.5	112967.170	3.5
3629.0906	10.00	-2.53	169814.630	2.0	172569.390	2.0
3629.4331	28.01	-4.67	118563.390	3.5	121317.890	3.5
3629.4661	14.00	-1.76	58893.400	3.0	61647.875	2.0
3629.4727	19.00	-1.47	30185.740	1.5	32940.210	.5
3629.5043	14.00	-3.42	61597.404	3.0	64351.850	3.0
3629.6571	18.01	-1.38	202467.140	1.5	205221.470	1.5
3630.2740	18.00	-.47	118407.494	1.0	121161.356	1.0
3630.4810	14.00	-3.86	61598.145	2.0	64351.850	3.0
3630.4875	13.01	-.73	146499.200	4.0	149252.900	4.0
3630.4875	13.01	-.87	146499.200	4.0	149252.900	4.0
3630.4875	13.01	.80	146499.200	4.0	149252.900	5.0
3630.4875	13.01	-2.29	146499.200	4.0	149252.900	3.0
3630.6458	10.00	-2.76	170597.190	2.0	173350.770	1.0
3630.7776	18.00	-3.11	119847.810	1.0	122601.290	1.0
3630.8132	10.00	-.90	169814.630	2.0	172568.083	3.0
3630.8172	26.02	-2.92	196881.470	7.0	199634.920	6.0
3631.0150	7.00	-3.38	112868.700	3.5	115622.000	2.5
3631.0809	10.01	-4.01	303509.520	2.5	306262.770	1.5
3631.3579	6.00	-1.22	87218.260	2.0	89971.300	3.0
3631.4977	7.00	-3.24	110212.396	2.5	112965.330	3.5
3631.8328	26.02	-2.06	199139.760	5.0	201892.440	5.0
3631.9384	29.01	-.82	138981.300	2.0	141733.900	2.0
3631.9384	8.01	-2.69	258601.700	1.5	261354.300	2.5
3632.1363	28.01	-4.97	134208.300	2.5	136960.750	2.5
3632.2141	14.00	-2.82	59917.336	2.0	62669.727	2.0
3632.3079	10.00	-.83	170597.190	2.0	173349.510	3.0
3632.3211	10.00	-1.98	170597.190	2.0	173349.500	2.0
3632.3409	14.00	-1.66	60962.105	2.0	63714.400	2.0
3632.3607	10.00	-1.81	170597.190	2.0	173349.470	2.0
3632.3739	23.00	-2.54	20767.570	3.5	23519.840	4.5
3632.4003	28.01	-4.29	116145.690	3.5	118897.940	2.5
3632.7038	18.00	-1.42	122601.290	1.0	125353.310	1.0
3632.9573	14.00	-1.88	59917.336	2.0	62669.164	3.0
3633.3111	28.01	-4.82	134208.300	2.5	136959.860	2.5
3633.6941	10.00	-3.04	169814.630	2.0	172565.900	1.0
3633.7205	15.01	-4.20	102799.200	1.0	105550.450	2.0
3633.7205	6.00	-1.63	83747.390	2.0	86498.640	2.0
3633.8394	6.00	-2.26	83747.390	2.0	86498.550	1.0
3634.0507	26.02	-3.04	202156.130	2.0	204907.130	1.0
3634.3679	14.00	-4.10	61647.360	1.0	64398.120	2.0
3634.7286	14.00	-3.56	59917.336	2.0	62667.823	3.0
3635.0484	14.00	-4.76	61647.875	2.0	64398.120	2.0
3635.0815	6.00	-3.64	86411.980	3.0	89162.200	2.0
3635.1739	6.00	-4.29	86412.050	2.0	89162.200	2.0
3635.4515	29.01	-2.91	136133.060	4.0	138883.000	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3635.4964	17.00	-4.42	91564.300	.5	94314.206	1.5
3635.6498	20.02	-2.15	383157.110	3.0	385906.900	2.0
3636.2978	7.00	-4.92	112868.700	3.5	115618.000	2.5
3636.3507	19.00	-.20	24701.430	.5	27450.690	.5
3636.4142	14.00	-2.47	60381.278	1.0	63130.490	1.0
3636.6523	7.00	-1.44	107445.622	1.5	110194.654	1.5
3636.8137	26.02	-4.16	196886.010	6.0	199634.920	6.0
3636.8548	11.00	-2.28	34548.731	2.5	37297.610	1.5
3636.9011	11.00	-3.24	34548.766	1.5	37297.610	1.5
3636.9063	28.01	-3.00	115565.980	2.5	118314.820	2.5
3636.9593	27.00	-4.05	46329.630	2.5	49078.430	1.5
3637.2067	28.00	-1.12	46522.965	2.0	49271.578	3.0
3637.3033	6.00	-2.70	87218.260	2.0	89966.800	3.0
3637.3284	10.00	-4.31	167048.669	3.0	169797.190	3.0
3637.4886	6.00	-3.85	87218.260	2.0	89966.660	2.0
3638.1306	18.00	-1.37	118906.665	2.0	121654.580	2.0
3638.4021	6.00	-4.16	86414.490	3.0	89162.200	2.0
3638.4748	18.00	-4.19	118906.665	2.0	121654.320	3.0
3638.5742	10.01	-4.92	321423.230	4.5	324170.810	3.5
3638.6086	11.00	-2.54	34548.766	1.5	37296.320	.5
3638.7305	17.00	-2.52	98383.430	4.5	101130.892	4.5
3638.8390	27.00	-4.00	45971.190	3.5	48718.570	2.5
3639.2099	25.00	-2.46	59731.940	4.5	62479.040	4.5
3639.6935	18.00	-.22	118906.665	2.0	121653.400	3.0
3639.7055	18.00	-1.50	121068.804	1.0	123815.530	1.0
3640.5087	17.00	-3.78	85442.430	1.5	88188.550	1.5
3641.1053	14.00	-1.50	59190.460	1.0	61936.130	1.0
3641.5907	7.00	-4.31	110212.396	2.5	112957.700	2.5
3641.7552	18.00	-1.65	122329.720	3.0	125074.900	2.0
3641.9171	14.00	-1.38	59191.072	2.0	61936.130	1.0
3641.9184	18.00	-1.28	118512.170	0.0	121257.227	1.0
3641.9277	6.00	-1.64	86965.450	2.0	89710.500	3.0
3642.6575	13.01	-3.16	144524.300	1.0	147268.800	1.0
3642.8500	7.00	-1.22	111326.798	2.5	114071.153	1.5
3643.1885	29.01	-3.98	148631.200	3.0	151375.300	2.0
3643.2549	18.00	-.87	121191.920	2.0	123935.970	1.0
3643.4727	14.00	-1.10	45276.188	1.0	48020.074	1.0
3643.6931	6.00	-3.64	86411.980	3.0	89155.700	3.0
3643.9188	18.00	-1.13	122609.760	1.0	125353.310	1.0
3644.2257	26.00	-4.39	48475.740	3.0	51219.059	3.0
3644.3147	26.00	-3.88	44676.963	4.0	47420.215	5.0
3644.4635	26.00	-2.90	51381.480	4.0	54124.620	4.0
3644.4874	22.00	-1.81	38451.298	2.0	41194.420	3.0
3644.7425	10.01	-4.96	321428.060	3.5	324170.990	2.5
3645.1173	26.00	-3.37	51148.892	2.0	53891.540	3.0
3645.6955	7.00	-3.04	104886.070	.5	107628.283	1.5
3645.8697	14.00	-3.00	60381.278	1.0	63123.360	0.0
3645.8723	23.00	-4.56	39422.660	2.5	42164.740	3.5
3646.4575	9.02	-1.06	441315.800	.5	444057.440	1.5
3646.6437	29.01	-4.45	145901.100	1.0	148642.600	2.0
3646.7873	26.00	-3.60	40421.890	4.0	43163.282	4.0
3647.0294	6.00	-4.05	86414.490	3.0	89155.700	3.0
3647.2955	7.00	-1.39	111285.644	1.5	114026.654	.5
3647.2955	6.00	-2.74	86414.690	4.0	89155.700	3.0
3647.3088	6.00	-2.43	86491.410	1.0	89232.410	1.0
3647.3088	14.00	-2.34	62141.800	1.0	64882.800	2.0
3647.6149	18.01	-2.29	192556.840	2.5	195297.610	1.5
3647.8146	9.02	-3.08	441315.800	.5	444056.420	.5
3647.9344	28.01	-3.66	106022.790	.5	108763.320	.5
3648.2259	26.00	-3.29	45220.662	3.0	47960.973	4.0
3648.2432	18.00	.37	116942.815	3.0	119683.113	2.0
3648.4935	7.00	-3.59	112877.890	3.5	115618.000	2.5
3648.9117	18.00	-2.41	121068.804	1.0	123808.600	2.0
3649.7323	23.00	-3.35	39398.820	3.5	42138.000	2.5
3649.9988	27.00	-2.01	45876.580	2.5	48615.560	2.5
3651.1719	10.01	-4.41	321422.880	5.5	324160.980	4.5
3651.1985	10.01	-4.99	321423.230	4.5	324161.310	3.5
3651.2385	27.00	-3.06	46746.000	2.5	49484.050	3.5
3651.4866	18.00	-.58	121165.431	3.0	123903.295	2.0
3651.8480	7.00	-3.74	110220.107	1.5	112957.700	2.5
3651.8907	18.00	-1.71	123557.459	3.0	126295.020	3.0
3651.9721	7.00	-4.48	112880.500	2.5	115618.000	1.5
3651.9721	7.00	-4.00	112880.500	2.5	115618.000	2.5
3652.0508	18.00	-1.83	123557.459	3.0	126294.900	3.0
3652.0508	18.00	-.40	123557.459	3.0	126294.900	4.0
3652.1322	6.00	-1.97	83761.260	3.0	86498.640	2.0
3652.4297	10.00	-1.53	168586.860	0.0	171324.017	1.0
3652.4310	14.00	-2.61	61574.814	3.0	64311.970	4.0
3652.4697	12.00	-2.50	58442.843	3.0	61179.970	2.0
3652.4697	12.00	-1.17	58442.843	3.0	61179.970	3.0
3652.4697	12.00	-1.37	58442.843	3.0	61179.970	3.0
3652.4697	12.00	.11	58442.843	3.0	61179.970	4.0
3652.4831	12.00	-1.13	58442.853	2.0	61179.970	2.0
3652.4831	12.00	-.30	58442.853	2.0	61179.970	3.0
3652.4831	12.00	-.92	58442.853	2.0	61179.970	3.0
3652.5111	12.00	-.22	58442.874	1.0	61179.970	2.0
3653.1905	10.00	-4.23	167011.563	2.0	169748.150	1.0
3653.3333	28.01	-3.82	118379.110	2.5	121115.590	1.5
3653.5483	14.00	-1.28	58775.451	2.0	61511.770	1.0
3653.6137	28.01	-4.60	115827.120	3.5	118563.390	3.5
3654.1746	25.01	-.20	114377.250	4.0	117113.100	3.0
3654.1746	25.01	.62	114377.250	4.0	117113.100	4.0
3654.1880	28.01	-4.05	118314.820	2.5	121050.660	2.5
3654.2280	27.00	-3.98	48317.170	3.5	51052.980	3.5
3654.3082	25.01	1.05	114377.250	4.0	117113.000	5.0
3654.7758	15.00	-2.25	72618.000	.5	75353.400	1.5
3654.7891	6.00	-2.55	83747.390	2.0	86482.780	2.0
3654.9494	6.00	-1.58	83747.390	2.0	86482.660	3.0
3655.7380	14.00	-2.35	61617.170	4.0	64351.850	3.0
3656.0588	10.01	-.80	321423.240	3.5	324157.680	2.5
3656.3103	7.00	.07	107588.469	.5	110322.721	1.5
3656.3745	7.00	-2.00	110212.396	2.5	112946.600	1.5
3657.0352	10.00	-2.52	169748.150	1.0	172481.860	1.0
3657.0486	15.00	-1.63	77888.700	1.5	80622.400	2.5
3657.3697	18.00	-1.12	122601.290	1.0	125334.750	0.0
3657.5569	9.00	-.35	130489.930	.5	133223.250	.5
3657.6694	14.00	-.30	54245.020	0.0	56978.256	1.0
3657.7443	15.00	-1.59	65450.020	1.5	68183.200	1.5
3657.9183	6.00	-.95	81105.030	1.0	83838.080	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3658.2756	14.00	-3.87	61562.477	3.0	64295.260	3.0
3658.3868	29.01	-3.77	148642.600	2.0	151375.300	2.0
3658.4136	10.00	-1.18	169839.450	1.0	172572.130	2.0
3658.5608	28.01	-3.13	100010.170	.5	102742.740	1.5
3658.6304	12.00	-2.28	58023.246	2.0	60755.764	2.0
3658.6304	12.00	-1.88	58023.246	2.0	60755.764	3.0
3658.6304	12.00	-1.46	58023.246	2.0	60755.764	3.0
3659.1969	26.00	-3.41	47966.571	3.0	50698.666	2.0
3659.3496	14.00	-.97	59109.959	3.0	61841.940	2.0
3659.4313	6.00	-3.27	86411.980	3.0	89143.900	3.0
3659.4715	27.00	-4.07	48828.870	2.5	51560.760	2.5
3659.5251	6.00	-4.85	86412.050	2.0	89143.900	3.0
3660.1548	10.00	-1.56	169839.450	1.0	172570.830	1.0
3660.2513	14.00	-2.13	61563.952	4.0	64295.260	3.0
3660.2888	28.01	-4.13	118563.390	3.5	121294.670	4.5
3660.3960	26.00	-4.83	51570.160	3.0	54301.360	4.0
3660.5997	14.00	-1.80	59110.892	2.0	61841.940	2.0
3660.6118	8.00	-.02	99680.968	1.0	102412.007	1.0
3660.7204	8.00	.20	99681.049	2.0	102412.007	1.0
3660.8893	7.00	-1.17	111501.368	1.5	114232.200	1.5
3661.0690	8.00	-.50	99681.309	0.0	102412.007	1.0
3661.0931	6.00	-2.44	86411.980	3.0	89142.660	2.0
3661.1869	6.00	-3.78	86412.050	2.0	89142.660	2.0
3661.3076	19.00	.11	24720.170	1.5	27450.690	.5
3661.6294	25.00	-3.84	59784.310	3.5	62514.590	2.5
3661.6965	26.02	-2.98	199300.150	2.0	202030.380	3.0
3661.8977	18.00	-2.09	122329.720	3.0	125059.800	2.0
3662.0855	10.00	-2.26	169839.450	1.0	172569.390	2.0
3662.0855	10.01	-4.56	321431.040	5.5	324160.980	4.5
3662.2330	28.01	-3.32	131928.770	4.5	134658.600	4.5
3662.3564	10.00	-1.09	169482.972	0.0	172212.710	1.0
3662.3806	26.00	-3.75	45509.112	1.0	48238.832	2.0
3662.5148	10.01	-.93	321428.060	3.5	324157.680	2.5
3662.5282	10.01	-2.55	321428.070	2.5	324157.680	2.5
3662.7966	6.00	-3.92	86414.490	3.0	89143.900	3.0
3663.0650	6.00	-2.44	86414.690	4.0	89143.900	3.0
3663.0784	15.00	-.33	75104.600	.5	77833.800	1.5
3663.1187	29.01	-2.32	135863.930	1.0	138593.100	1.0
3663.1912	14.00	-1.23	61574.814	3.0	64303.930	3.0
3663.2126	22.00	-3.55	31805.940	2.0	34535.040	2.0
3663.5214	9.00	-4.26	130016.100	2.5	132744.970	1.5
3663.6570	7.00	-2.21	104859.700	1.5	107588.469	.5
3663.9913	28.01	-4.67	134208.300	2.5	136936.820	3.5
3664.1256	28.01	-4.56	116145.690	3.5	118874.110	3.5
3664.1390	6.00	-2.78	84984.970	3.0	87713.380	3.0
3664.1390	10.00	-1.00	169843.820	2.0	172572.230	3.0
3664.2062	6.00	-2.17	86185.200	2.0	88913.560	2.0
3664.2733	10.00	-3.17	169843.820	2.0	172572.130	2.0
3664.4345	28.01	-3.65	115565.980	2.5	118294.170	3.5
3664.4614	6.00	-3.24	86414.490	3.0	89142.660	2.0
3664.7569	24.00	-4.89	48558.570	2.0	51286.520	2.0
3665.0256	28.01	-4.74	118314.820	2.5	121042.570	1.5
3665.2406	14.00	-2.28	60856.630	1.0	63584.220	1.0
3665.7513	23.00	-3.02	35379.110	3.5	38106.320	2.5
3665.8010	10.00	-1.81	169748.150	1.0	172475.323	2.0
3666.0201	10.00	-2.56	169843.820	2.0	172570.830	1.0
3666.0470	26.01	-.83	84844.810	2.5	87571.800	2.5
3666.7153	7.00	-.71	110220.107	1.5	112946.600	1.5
3666.7731	10.00	-2.77	169839.450	1.0	172565.900	1.0
3666.7798	14.00	-1.32	45293.629	2.0	48020.074	1.0
3666.8807	14.02	.20	242145.100	1.0	244871.470	1.0
3667.4699	14.00	-2.13	56780.427	1.0	59506.359	2.0
3667.7687	6.00	-3.80	86506.700	2.0	89232.410	1.0
3667.8749	14.00	-1.36	59506.359	2.0	62231.990	2.0
3667.9005	18.00	-2.63	121932.908	1.0	124658.520	2.0
3667.9570	10.00	-1.33	169843.820	2.0	172569.390	2.0
3668.1454	10.00	-2.46	169839.450	1.0	172564.880	0.0
3668.2800	27.00	-2.69	43199.650	2.5	45924.980	3.5
3668.6031	27.00	-3.89	48317.170	3.5	51042.260	2.5
3668.7377	18.00	-1.43	122609.760	1.0	125334.750	0.0
3668.7647	20.02	-3.92	370901.880	2.0	373626.850	2.0
3668.8320	6.00	-4.62	86411.980	3.0	89136.900	4.0
3669.6736	10.00	-1.22	169488.415	1.0	172212.710	1.0
3669.6736	10.00	-.77	169488.415	1.0	172212.710	2.0
3669.7167	10.00	-1.85	169843.820	2.0	172568.083	3.0
3669.7747	26.00	-3.02	51076.680	4.0	53800.900	5.0
3670.2867	28.01	-3.45	101357.200	4.5	104081.040	4.5
3670.3809	14.00	.17	58893.400	3.0	61617.170	4.0
3670.4349	20.02	-2.58	370903.120	3.0	373626.850	2.0
3671.0953	6.00	-4.21	84984.970	3.0	87708.210	2.0
3671.2571	10.01	-1.28	321434.560	2.5	324157.680	2.5
3671.4284	7.00	-3.88	112294.007	.5	115017.000	.5
3671.5133	29.01	-1.20	138819.170	3.0	141542.100	2.0
3671.5591	14.00	-1.46	61574.814	3.0	64297.710	4.0
3671.5942	10.01	-4.61	321434.560	2.5	324157.430	1.5
3671.6481	10.01	-4.25	302844.110	2.5	305566.940	1.5
3671.6751	14.00	-2.11	60856.630	1.0	63579.440	0.0
3671.7155	28.01	-3.21	98122.630	.5	100845.410	.5
3671.7763	17.00	-2.04	98418.890	3.5	101141.625	4.5
3671.9987	28.01	-3.11	115592.250	1.5	118314.820	2.5
3672.0176	14.00	-3.08	61574.814	3.0	64297.370	3.0
3672.3629	17.00	-3.81	98418.890	3.5	101141.190	3.5
3672.4844	6.00	-3.07	86414.690	4.0	89136.900	4.0
3672.6057	6.00	-.85	83747.390	2.0	86469.510	3.0
3672.6462	17.00	-2.55	98419.100	2.5	101141.190	3.5
3672.6597	10.00	-2.11	169843.820	2.0	172565.900	1.0
3672.6732	29.01	-3.44	136160.930	5.0	138883.000	4.0
3673.0915	28.01	-4.79	68735.980	2.5	71457.740	3.5
3673.0915	26.00	-3.85	51691.980	3.0	54413.740	3.0
3673.1307	7.00	-1.30	107628.283	1.5	110350.014	.5
3673.4154	6.00	-2.38	83761.260	3.0	86482.780	2.0
3673.5775	6.00	-1.43	83761.260	3.0	86482.660	3.0
3673.9285	6.00	-1.42	81311.010	0.0	84032.150	1.0
3675.4264	14.00	-2.61	59506.359	2.0	62226.390	1.0
3675.4683	13.01	-.17	144780.200	2.0	147500.200	3.0
3675.6277	7.00	-4.36	110247.288	3.5	112967.170	3.5
3675.8872	28.01	-2.45	114942.420	1.5	117662.110	1.5
3676.1954	12.00	-.20	54248.809	0.0	56968.271	1.0
3676.4022	14.00	-1.58	57198.027	3.0	59917.336	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3677.4151	22.00	-3.50	41515.090	4.0	44233.650	3.0
3677.8670	17.00	-1.88	95700.874	3.5	98419.100	2.5
3677.9225	12.00	-.32	54250.086	1.0	56968.271	1.0
3677.9265	18.00	-.73	122635.128	2.0	125353.310	1.0
3677.9536	12.00	-.01	54250.086	1.0	56968.248	2.0
3677.9807	18.00	-2.11	121932.908	1.0	124651.050	1.0
3678.1159	7.00	-3.39	110247.288	3.5	112965.330	3.5
3678.1511	17.00	-.79	95700.874	3.5	98418.890	3.5
3678.4610	14.00	-1.89	60487.103	1.0	63204.890	2.0
3679.8841	26.00	-4.11	54066.570	4.0	56783.306	3.0
3679.8990	26.00	-3.24	48163.427	2.0	50880.152	1.0
3680.2038	7.00	-3.82	112880.500	2.5	115597.000	1.5
3680.2241	26.00	-4.31	54066.821	2.0	56783.306	3.0
3680.7702	14.00	-2.80	60381.278	1.0	63097.360	1.0
3681.2337	27.00	-4.72	46002.830	2.5	48718.570	2.5
3681.3828	14.00	-.63	61305.670	1.0	64021.300	2.0
3681.4980	12.00	-1.50	54252.726	2.0	56968.271	1.0
3681.5292	12.00	-.49	54252.726	2.0	56968.248	2.0
3681.5699	12.00	.43	54252.726	2.0	56968.218	3.0
3681.6540	21.00	-3.68	33615.060	1.5	36330.490	2.5
3682.0878	6.00	.01	80782.510	1.0	83497.620	2.0
3682.1014	29.01	-3.64	145927.500	2.0	148642.600	2.0
3682.1014	6.00	-1.44	81105.030	1.0	83820.130	1.0
3682.3863	10.01	-4.07	303528.530	3.5	306243.420	2.5
3682.8109	14.00	-1.73	57295.881	0.0	60010.458	1.0
3683.2545	26.00	-5.00	51969.140	3.0	54683.390	4.0
3683.4798	10.00	-2.69	169501.636	4.0	172215.720	3.0
3683.4798	10.00	-1.15	169501.636	4.0	172215.720	4.0
3683.5260	28.01	-2.46	99040.750	1.5	101754.800	2.5
3683.5571	14.00	-2.76	61304.283	2.0	64018.310	1.0
3683.7974	29.01	-2.37	134359.900	1.0	137073.750	2.0
3683.9861	14.00	-1.01	57328.789	1.0	60042.500	0.0
3683.9875	24.00	-4.03	31048.850	1.0	33762.560	0.0
3684.2454	29.01	-2.05	116326.160	3.0	119039.680	2.0
3684.3594	10.00	-1.25	169502.284	3.0	172215.720	3.0
3684.3594	10.00	-2.97	169502.284	3.0	172215.720	4.0
3684.5170	28.01	-4.91	131928.770	4.5	134642.090	3.5
3684.9407	28.00	-4.28	49327.560	3.0	52040.568	2.0
3685.1010	10.00	-3.18	169748.150	1.0	172461.040	1.0
3685.6077	7.00	-2.21	110245.183	.5	112957.700	1.5
3685.8347	29.01	-1.83	118163.500	2.0	120875.850	2.0
3686.1133	22.00	-3.56	41087.310	3.0	43799.455	2.0
3686.1309	14.00	-3.09	60381.278	1.0	63093.410	2.0
3686.3076	17.00	-3.86	98418.890	3.5	101130.892	4.5
3686.3865	10.00	-1.84	169501.636	4.0	172213.580	4.0
3686.3865	10.00	-.20	169501.636	4.0	172213.580	5.0
3686.6910	20.02	-4.41	383063.780	3.0	385775.500	4.0
3687.1601	18.00	-1.29	121191.920	2.0	123903.295	2.0
3687.2675	10.00	-.30	169502.284	3.0	172213.580	4.0
3687.6034	17.00	-4.54	92602.700	.5	95313.749	1.5
3688.0918	20.02	-2.09	383156.510	4.0	385867.200	3.0
3688.1707	18.00	-2.45	121932.908	1.0	124643.540	1.0
3688.2714	26.00	-4.47	51294.262	3.0	54004.820	3.0
3688.6525	10.00	-2.45	169748.150	1.0	172458.428	2.0
3688.8403	28.01	-3.85	134249.720	1.5	136959.860	2.5
3688.9084	20.02	-3.42	383157.110	3.0	385867.200	3.0
3688.9220	9.02	-2.07	441158.600	1.5	443868.680	2.5
3689.2078	8.01	-4.60	248514.230	1.5	251224.100	2.5
3689.4392	17.01	-2.43	144344.000	2.0	147053.700	2.0
3690.0521	6.00	-2.70	86523.160	0.0	89232.410	1.0
3690.7060	24.00	-4.78	24093.160	2.0	26801.930	1.0
3690.8423	18.00	-1.87	123815.530	1.0	126524.200	0.0
3691.0057	18.00	-2.97	122160.220	3.0	124868.770	3.0
3691.0057	18.00	-2.18	122160.220	3.0	124868.770	4.0
3691.0303	14.00	-1.63	60496.358	2.0	63204.890	2.0
3691.0303	14.00	-1.45	60010.458	1.0	62718.990	0.0
3691.2102	6.00	.43	83761.260	3.0	86469.660	4.0
3691.4146	6.00	-.43	83761.260	3.0	86469.510	3.0
3691.4282	6.00	-2.67	87002.260	3.0	89710.500	3.0
3691.6191	7.00	-3.66	112826.900	3.5	115535.000	2.5
3691.6191	7.00	-4.92	112826.900	3.5	115535.000	3.5
3692.2572	7.00	-3.95	111501.368	1.5	114209.000	.5
3693.0374	19.00	-1.62	31765.370	.5	34472.430	1.5
3693.1055	28.01	-1.50	134252.850	3.5	136959.860	2.5
3693.3484	20.00	-2.01	42343.587	3.0	45050.419	2.0
3693.3784	26.02	-2.45	199212.720	4.0	201919.530	4.0
3693.3784	19.00	-1.92	31765.370	.5	34472.180	.5
3693.5148	9.02	-1.31	441158.600	1.5	443865.310	1.5
3693.8424	28.01	-4.93	116191.470	2.5	118897.940	2.5
3693.9516	6.00	-.79	81325.760	1.0	84032.150	1.0
3694.1946	7.00	.42	110247.288	3.5	112953.500	4.5
3694.3065	29.01	-.83	137034.970	3.0	139741.100	3.0
3694.3884	55.00	-2.04	26047.860	0.0	28754.668	0.0
3694.7571	28.01	-2.86	103663.500	1.5	106369.300	1.5
3694.9196	10.00	-3.48	170288.959	2.0	172994.640	2.0
3694.9196	10.00	-.42	170288.959	2.0	172994.640	3.0
3694.9196	10.00	-2.90	170288.959	2.0	172994.640	3.0
3695.1668	15.00	-4.76	77843.300	1.5	80548.800	2.5
3695.3033	15.00	-.44	77888.700	1.5	80594.100	1.5
3695.4112	10.00	-3.84	170289.319	2.0	172994.640	2.0
3695.4112	10.00	-.43	170289.319	2.0	172994.640	3.0
3695.4399	13.01	-.87	144638.900	2.0	147344.200	3.0
3695.4399	13.01	-1.77	144638.900	3.0	147344.200	3.0
3695.6175	28.01	-1.74	134254.690	1.5	136959.860	2.5
3695.9003	10.00	-4.62	170289.677	3.0	172994.640	2.0
3695.9003	10.00	-1.72	170289.677	3.0	172994.640	3.0
3695.9003	10.00	-1.60	170289.677	3.0	172994.640	3.0
3695.9003	10.00	-.29	170289.677	3.0	172994.640	4.0
3695.9864	15.00	-4.66	77843.900	2.5	80548.800	2.5
3696.0957	18.00	-1.24	122160.220	3.0	124865.040	3.0
3696.1982	14.00	-1.25	58893.400	3.0	61598.145	2.0
3697.0142	10.00	-2.10	169508.562	2.0	172212.710	1.0
3697.0142	10.00	-1.14	169508.562	2.0	172212.710	2.0
3697.0799	13.01	.15	132213.200	1.0	134917.300	1.0
3697.2111	14.00	-.38	58893.400	3.0	61597.404	3.0
3697.2507	14.00	-4.06	61647.875	2.0	64351.850	3.0
3697.4764	28.01	-3.25	134256.050	2.5	136959.860	2.5
3697.6268	29.01	-3.91	145927.500	2.0	148631.200	3.0
3697.6569	14.00	.11	54313.818	1.0	57017.496	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3698.4476	7.00	-4.71	112826.900	2.5	115530.000	1.5
3698.5981	10.01	-4.93	305398.620	1.5	308101.610	1.5
3698.6117	17.00	-1.95	94827.150	2.5	97530.130	2.5
3699.0634	10.01	-4.02	305398.620	1.5	308101.270	2.5
3699.1729	23.00	-4.74	34619.520	2.5	37322.090	3.5
3699.4069	7.00	-2.74	104886.070	.5	107588.469	.5
3699.5753	26.00	-3.10	49135.003	3.0	51837.279	3.0
3699.6766	22.00	-3.12	17423.853	2.0	20126.055	3.0
3699.8971	17.00	-.70	94482.236	2.5	97184.277	3.5
3700.2189	14.00	-2.02	51612.012	0.0	54313.818	1.0
3700.3723	18.00	-.19	118459.662	1.0	121161.356	1.0
3700.4189	12.01	-.98	112197.060	2.5	114898.720	1.5
3700.5558	12.01	-1.93	112197.160	1.5	114898.720	1.5
3700.7518	7.00	-1.91	110245.183	.5	112946.600	.5
3700.7518	7.00	-2.76	110245.183	.5	112946.600	1.5
3701.3779	26.01	-4.19	84870.840	2.5	87571.800	2.5
3701.5561	23.00	-3.00	34374.810	3.5	37075.640	4.5
3701.9261	18.01	-1.29	201030.300	.5	203730.860	1.5
3702.1181	18.00	-.51	122160.220	3.0	124860.640	4.0
3702.1592	18.01	-2.99	186340.480	1.5	189040.870	1.5
3702.3100	28.01	-4.45	119100.060	1.5	121800.340	1.5
3702.6000	2.00	.60	191217.000	0.0	193917.805	0.0
3702.6254	29.01	-4.75	136442.050	3.0	139142.100	2.0
3703.2014	12.01	-1.23	112197.160	1.5	114896.790	.5
3703.8874	23.00	-4.79	36897.880	4.5	39597.010	4.5
3703.9533	22.00	-4.60	36065.750	3.0	38764.832	3.0
3704.5380	26.00	-3.86	45833.240	4.0	48531.896	3.0
3704.5654	10.00	-2.79	170296.004	1.0	172994.640	2.0
3704.8757	6.00	-1.02	84935.340	1.0	87633.750	2.0
3705.2327	22.00	-2.49	38670.710	4.0	41368.860	4.0
3705.5624	9.02	-.56	441167.400	.5	443865.310	1.5
3705.6365	14.00	-2.86	61597.404	3.0	64295.260	3.0
3705.7271	28.01	-3.04	134262.070	3.5	136959.860	2.5
3706.1695	26.00	-4.99	54161.182	3.0	56858.650	2.0
3706.2547	11.00	-1.64	37036.754	2.5	39734.160	2.5
3706.2547	11.00	-.34	37036.754	2.5	39734.160	3.5
3706.2822	11.00	-.49	37036.774	1.5	39734.160	2.5
3706.5378	18.00	-4.21	122160.220	3.0	124857.420	2.0
3706.5446	7.00	-4.18	112319.805	1.5	115017.000	.5
3706.6546	14.00	-4.16	61598.145	2.0	64295.260	3.0
3706.6751	7.00	-4.50	112826.900	3.5	115524.000	3.5
3706.7164	26.01	-.60	84938.130	1.5	87635.200	.5
3706.9501	15.00	-2.19	76425.200	2.5	79122.100	1.5
3706.9638	25.00	-4.80	59817.700	2.5	62514.590	2.5
3706.9776	19.00	-1.48	28999.270	.5	31696.150	1.5
3707.2112	19.00	.37	24701.430	.5	27398.140	1.5
3707.2937	29.01	-.93	137044.450	4.0	139741.100	3.0
3707.6058	18.00	-0.00	117151.387	1.0	119847.810	1.0
3707.7062	6.00	-1.15	80801.270	2.0	83497.620	2.0
3707.8162	20.02	-4.51	383061.330	2.0	385757.600	3.0
3707.9125	30.02	-4.16	300212.300	4.0	302908.500	4.0
3707.9400	27.00	-4.48	44394.470	3.5	47090.650	2.5
3708.5727	10.00	-1.69	169516.990	1.0	172212.710	1.0
3708.5727	10.00	-1.40	169516.990	1.0	172212.710	2.0
3709.8306	26.00	-3.23	45595.046	0.0	48289.852	1.0
3709.9352	25.00	-1.96	59784.310	3.5	62479.040	4.5
3709.9490	28.01	-3.95	130751.030	5.5	133445.750	4.5
3710.0701	7.00	-.90	111501.368	1.5	114196.000	2.5
3710.1968	25.00	-3.31	59731.940	4.5	62426.480	3.5
3710.3373	7.00	-1.67	107628.283	1.5	110322.721	1.5
3710.5135	25.00	-4.49	59600.350	2.5	62294.660	3.5
3710.5824	28.01	-3.81	131686.560	4.5	134380.820	3.5
3712.0607	26.00	-3.73	52682.930	2.0	55376.117	1.0
3712.1668	28.01	-3.35	115870.280	2.5	118563.390	3.5
3712.1806	10.01	-4.32	305408.510	.5	308101.610	1.5
3712.7183	22.00	-4.78	39265.800	2.0	41958.510	2.0
3712.7459	6.00	-3.61	86469.510	3.0	89162.200	2.0
3712.9114	19.00	-.89	31695.890	2.5	34388.460	1.5
3713.1320	14.00	-2.69	62231.990	2.0	64924.400	3.0
3713.2699	19.00	-1.84	31696.150	1.5	34388.460	1.5
3713.3678	18.00	.22	118469.117	2.0	121161.356	1.0
3713.5733	26.01	-1.99	84844.810	2.5	87536.900	3.5
3713.6837	19.00	-1.14	31696.150	1.5	34388.160	.5
3713.8079	28.01	-2.96	114970.190	.5	117662.110	1.5
3713.8906	28.01	-4.16	92325.850	3.5	95017.710	4.5
3713.9735	18.01	-3.75	186074.350	2.5	188766.150	2.5
3714.6358	29.01	-.18	136336.880	1.0	139028.200	2.0
3714.6772	28.01	-3.03	97799.660	1.5	100490.950	1.5
3714.8456	26.00	-2.92	48289.852	1.0	50981.020	0.0
3715.5332	29.01	-2.61	135902.430	0.0	138593.100	1.0
3715.9240	17.00	-.26	94663.670	1.5	97354.057	1.5
3715.9336	18.00	-3.15	121191.920	2.0	123882.300	1.0
3715.9337	25.00	-2.96	46901.130	2.5	49591.510	1.5
3716.0442	13.01	.52	139916.700	1.0	142607.000	2.0
3716.1409	23.00	-4.82	34537.210	1.5	37227.440	2.5
3716.6313	17.00	-3.95	94314.206	1.5	97004.081	1.5
3716.6354	10.00	-1.54	167867.178	0.0	170557.050	1.0
3716.7211	25.00	-2.40	57705.830	.5	60395.640	1.5
3717.2159	10.00	-.49	169526.268	2.0	172215.720	3.0
3717.3154	21.00	-4.12	33056.190	3.5	35745.570	2.5
3717.5974	18.00	-.18	118407.494	1.0	121096.670	0.0
3718.0688	10.00	-1.82	169526.885	3.0	172215.720	3.0
3718.0688	10.00	-.36	169526.885	3.0	172215.720	4.0
3718.1864	6.00	-2.47	86185.200	2.0	88873.950	2.0
3718.6151	19.00	-2.21	29007.710	1.5	31696.150	1.5
3718.6552	26.00	-2.78	47834.529	5.0	50522.940	6.0
3718.8088	24.00	-4.90	48558.570	2.0	51246.870	1.0
3718.9748	19.00	-1.26	29007.710	1.5	31695.890	2.5
3719.0025	6.00	-.95	81343.990	2.0	84032.150	1.0
3719.6030	14.00	-1.12	56503.346	2.0	59191.072	2.0
3719.8425	13.00	-1.81	42233.722	1.5	44921.275	1.5
3720.0265	28.01	-4.38	105861.190	2.5	108548.610	1.5
3720.2079	14.00	-2.09	61303.381	3.0	63990.670	2.0
3720.3033	6.00	-2.65	86482.780	2.0	89170.000	1.0
3720.4501	14.00	-1.52	56503.346	2.0	59190.460	1.0
3720.5762	17.00	-3.33	92140.127	1.5	94827.150	2.5
3720.6772	11.00	-1.94	37296.320	.5	39983.270	.5
3721.0303	10.00	-3.76	169526.885	3.0	172213.580	4.0
3721.1980	14.00	-1.84	61198.036	0.0	63884.610	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3721.2728	6.00	.52	78148.090	2.0	80834.610	3.0
3721.3807	10.00	-2.47	169526.268	2.0	172212.710	1.0
3721.3807	10.00	-3.42	169526.268	2.0	172212.710	2.0
3721.4570	14.00	-2.96	61304.283	2.0	63990.670	2.0
3721.7299	6.00	-4.00	86469.510	3.0	89155.700	3.0
3721.8407	29.01	-2.97	136133.060	4.0	138819.170	3.0
3721.9793	6.00	-.44	81105.030	1.0	83791.040	2.0
3722.0873	13.00	-1.11	42233.722	1.5	44919.654	.5
3722.2066	7.00	-2.45	110194.654	1.5	112880.500	2.5
3722.2357	10.00	-2.27	169526.885	3.0	172212.710	2.0
3722.2980	28.01	-4.49	131928.770	4.5	134614.550	5.5
3722.4643	11.00	-1.64	37297.610	1.5	39983.270	.5
3722.5198	14.00	-3.43	61305.050	3.0	63990.670	2.0
3722.5891	9.00	-.46	130059.400	.5	132744.970	1.5
3722.7416	14.00	-1.24	60300.860	2.0	62986.320	2.0
3722.9357	28.01	-3.96	112906.930	1.5	115592.250	1.5
3723.2407	14.00	-3.18	60300.860	2.0	62985.960	1.0
3723.2407	55.00	-.99	26068.830	0.0	28754.662	0.0
3723.3933	18.00	-3.92	122601.290	1.0	125286.280	1.0
3723.4765	38.01	.00	53372.970	0.0	56058.632	0.0
3724.0312	6.00	.27	78116.740	1.0	80801.270	2.0
3724.3504	30.02	-4.71	300224.200	4.0	302908.500	4.0
3724.3504	30.02	-3.24	300224.200	5.0	302908.500	4.0
3724.6418	6.00	-1.46	83798.570	4.0	86482.660	3.0
3724.8083	28.01	-3.22	134252.850	3.5	136936.820	3.5
3725.0609	26.00	-4.25	53739.488	5.0	56423.276	4.0
3725.1497	18.00	-.39	116999.389	2.0	119683.113	2.0
3725.4689	13.00	-.86	42237.781	2.5	44921.275	1.5
3725.6134	6.00	-1.72	84950.360	2.0	87633.750	2.0
3726.2660	28.01	-4.94	116145.690	3.5	118828.610	2.5
3726.3688	17.00	-1.49	95700.874	3.5	98383.720	3.5
3726.7717	17.00	-.08	95700.874	3.5	98383.430	4.5
3727.3914	29.01	-2.76	135910.990	2.0	138593.100	1.0
3727.4984	14.00	-3.95	59636.667	1.0	62318.700	0.0
3727.5025	27.00	-2.27	43242.950	2.5	45924.980	3.5
3727.5998	6.00	-3.65	86482.780	2.0	89164.740	1.0
3727.8820	8.00	-1.75	105788.443	1.0	108470.200	0.0
3727.8820	8.00	-1.40	105788.443	1.0	108470.200	1.0
3727.8820	8.00	-1.51	105788.443	1.0	108470.200	2.0
3728.0043	14.00	-.67	57328.789	1.0	60010.458	1.0
3728.1100	8.00	-1.87	105788.607	2.0	108470.200	1.0
3728.1100	8.00	-1.28	105788.607	2.0	108470.200	2.0
3728.1100	8.00	-1.08	105788.607	2.0	108470.200	3.0
3728.4729	8.00	-2.23	105788.868	3.0	108470.200	2.0
3728.4729	8.00	-1.38	105788.868	3.0	108470.200	3.0
3728.4729	8.00	-.79	105788.868	3.0	108470.200	4.0
3728.5035	22.00	-.55	41481.130	5.0	44162.440	4.0
3728.8790	10.00	-2.21	170578.390	1.0	173259.430	1.0
3729.0695	14.00	-2.91	61562.477	3.0	64243.380	2.0
3729.1223	7.00	-1.74	110286.305	2.5	112967.170	3.5
3729.2378	10.00	-3.74	169530.487	2.0	172211.269	3.0
3729.2545	28.01	-4.41	134256.050	2.5	136936.820	3.5
3729.4465	7.00	-2.64	111501.368	1.5	114182.000	2.5
3729.4520	10.00	-4.90	169530.487	2.0	172211.115	2.0
3729.4576	10.00	-3.93	169530.491	1.0	172211.115	2.0
3729.6719	28.01	-4.76	114052.040	3.5	116732.510	2.5
3729.6775	17.00	-4.75	94468.857	.5	97149.323	.5
3729.7693	20.02	-3.69	383095.100	5.0	385775.500	4.0
3730.3399	22.00	-4.94	39526.890	2.0	42206.880	2.0
3730.4791	24.00	-4.69	41409.030	2.0	44088.920	1.0
3730.5070	17.00	-4.78	98372.970	1.5	101052.840	2.5
3730.6239	17.00	-.46	97667.396	3.5	100347.182	2.5
3730.7158	26.02	-2.85	199212.720	4.0	201892.440	5.0
3730.7436	10.01	-4.30	302902.570	1.5	305582.270	.5
3730.7924	14.00	-2.62	60962.105	2.0	63641.770	3.0
3730.9663	6.00	-2.48	86482.660	3.0	89162.200	2.0
3731.1335	6.00	-3.27	86482.780	2.0	89162.200	2.0
3731.3981	55.00	-1.18	26047.860	0.0	28727.821	0.0
3731.6487	6.00	-2.52	86412.050	2.0	89091.100	1.0
3731.6836	7.00	-2.29	110286.305	2.5	112965.330	3.5
3731.7407	14.00	-1.60	59917.336	2.0	62596.320	2.0
3732.0388	10.00	-5.00	169536.950	2.0	172215.720	3.0
3732.0388	10.00	-4.87	169536.950	3.0	172215.720	4.0
3732.0764	18.00	-1.04	121257.227	1.0	123935.970	1.0
3732.2437	10.00	-2.86	169530.487	2.0	172209.110	1.0
3732.2492	10.00	-3.16	169530.491	1.0	172209.110	1.0
3732.2757	28.01	-4.09	131928.770	4.5	134607.370	4.5
3732.4011	6.00	-1.49	83820.130	1.0	86498.640	2.0
3732.4429	5.00	-3.06	62516.520	2.5	65195.000	2.5
3732.4429	5.00	-1.75	62516.520	3.5	65195.000	2.5
3732.4429	5.00	-1.91	62516.520	2.5	65195.000	1.5
3732.5265	6.00	-.93	83820.130	1.0	86498.550	1.0
3732.9265	10.00	-1.37	169797.190	3.0	172475.323	2.0
3733.1537	27.00	-3.61	49484.050	3.5	52162.020	3.5
3733.1537	19.00	-.33	24720.170	1.5	27398.140	1.5
3733.7672	6.00	-.09	78104.980	0.0	80782.510	1.0
3733.7951	28.01	-4.16	118563.390	3.5	121240.900	3.5
3733.8787	29.01	-3.80	136442.050	3.0	139119.500	3.0
3733.9764	20.02	-4.11	383189.820	4.0	385867.200	3.0
3734.2971	18.01	-1.45	202544.320	2.5	205221.470	1.5
3734.4813	12.00	-1.48	57204.163	3.0	59881.181	2.0
3734.4995	12.00	-2.71	57204.163	3.0	59881.168	3.0
3734.6040	19.00	.62	24720.170	1.5	27397.100	2.5
3734.6041	27.00	-2.16	43199.650	2.5	45876.580	2.5
3734.6166	12.00	-1.75	57204.275	2.0	59881.196	1.0
3734.6375	12.00	-2.66	57204.275	2.0	59881.181	2.0
3734.6375	12.00	-3.86	57204.275	3.0	59881.181	2.0
3734.6557	12.00	-4.03	57204.275	2.0	59881.168	3.0
3734.6557	12.00	-2.87	57204.275	3.0	59881.168	3.0
3734.6557	12.00	-1.42	57204.275	4.0	59881.168	3.0
3734.6878	10.00	-1.91	170578.390	1.0	173255.260	0.0
3734.9250	30.02	-4.51	300193.100	3.0	302869.800	3.0
3735.1092	22.00	-4.04	28952.100	4.0	31628.668	5.0
3735.1762	18.00	-3.54	122609.760	1.0	125286.280	1.0
3735.4930	10.00	-2.61	169530.487	2.0	172206.780	2.0
3735.4985	10.00	-3.56	169530.491	1.0	172206.780	2.0
3736.1812	15.00	-.81	77946.600	2.5	80622.400	2.5
3736.2371	10.00	-3.77	169536.950	2.0	172212.710	2.0
3736.2371	10.00	-2.63	169536.950	3.0	172212.710	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3736.2371	10.00	-2.82	169536.950	2.0	172212.710	1.0
3736.2803	26.00	-4.61	53747.547	3.0	56423.276	4.0
3736.4605	29.01	-2.95	137913.800	1.0	140589.400	0.0
3736.8096	26.00	-3.60	58001.880	6.0	60677.230	5.0
3736.8375	14.00	-2.19	61647.360	1.0	64322.690	0.0
3736.9074	10.00	-2.37	169538.300	5.0	172213.580	4.0
3736.9074	10.00	-4.10	169538.300	5.0	172213.580	5.0
3736.9074	10.00	-2.29	169538.300	6.0	172213.580	5.0
3736.9773	29.01	-.96	137034.970	3.0	139710.200	2.0
3736.9954	17.00	-1.56	94663.670	1.5	97338.887	2.5
3737.0359	28.00	-2.09	42605.964	3.0	45281.152	3.0
3737.3964	10.00	-3.44	169540.790	3.0	172215.720	3.0
3737.3964	10.00	-4.91	169540.790	4.0	172215.720	3.0
3737.3964	10.00	-4.87	169540.790	3.0	172215.720	4.0
3737.3964	10.00	-3.33	169540.790	4.0	172215.720	4.0
3737.4886	8.00	-2.12	105441.736	2.0	108116.600	1.0
3737.4886	8.00	-2.85	105441.736	2.0	108116.600	2.0
3737.4886	8.00	-4.39	105441.736	2.0	108116.600	3.0
3737.4886	8.00	-1.95	105441.736	3.0	108116.600	2.0
3737.4886	8.00	-2.85	105441.736	3.0	108116.600	3.0
3737.4886	8.00	-1.79	105441.736	4.0	108116.600	3.0
3737.6479	28.01	-4.63	134262.070	3.5	136936.820	3.5
3737.8296	11.00	-3.95	37059.540	3.5	39734.160	3.5
3737.8296	11.00	-2.40	37059.540	4.5	39734.160	3.5
3737.8296	11.00	-2.52	37059.540	3.5	39734.160	2.5
3737.9413	28.01	-3.78	131620.450	1.5	134294.990	2.5
3737.9413	10.00	-4.64	170320.100	3.0	172994.640	2.0
3737.9413	10.00	-4.03	170320.100	3.0	172994.640	3.0
3737.9413	10.00	-3.90	170320.100	3.0	172994.640	3.0
3737.9413	10.00	-2.46	170320.100	4.0	172994.640	3.0
3737.9413	10.00	-2.47	170320.100	4.0	172994.640	3.0
3737.9413	10.00	-4.01	170320.100	4.0	172994.640	4.0
3737.9413	10.00	-3.91	170320.100	4.0	172994.640	4.0
3737.9413	10.00	-2.37	170320.100	5.0	172994.640	4.0
3738.1510	10.00	-1.92	170585.040	1.0	173259.430	1.0
3738.1510	6.00	-3.88	86469.510	3.0	89143.900	3.0
3738.2768	6.00	-2.75	85169.610	0.0	87843.910	1.0
3738.3607	6.00	-3.00	86469.660	4.0	89143.900	3.0
3738.5704	19.00	-3.90	30617.310	3.5	33291.400	3.5
3738.5704	19.00	-2.36	30617.310	4.5	33291.400	3.5
3738.5704	19.00	-2.47	30617.310	3.5	33291.400	2.5
3738.5872	10.00	-1.68	165912.782	1.0	168586.860	0.0
3739.0709	7.00	-2.20	107182.788	1.5	109856.520	1.5
3739.4066	14.00	-1.35	58774.368	3.0	61447.860	2.0
3739.4653	10.00	-2.50	169542.270	4.0	172215.720	3.0
3739.4653	10.00	-4.04	169542.270	4.0	172215.720	4.0
3739.4653	10.00	-2.40	169542.270	5.0	172215.720	4.0
3739.9690	17.00	-3.85	97674.092	3.5	100347.182	2.5
3740.0390	6.00	-3.69	86482.660	3.0	89155.700	3.0
3740.1648	6.00	-2.96	86498.550	1.0	89171.500	0.0
3740.3020	17.00	-1.79	97674.330	2.5	100347.182	2.5
3740.3888	10.00	-4.99	169540.790	4.0	172213.580	5.0
3740.4027	28.01	-4.47	118442.810	1.5	121115.590	1.5
3740.7163	17.00	-1.27	95700.874	3.5	98373.430	2.5
3740.8226	17.00	-1.86	97530.130	2.5	100202.610	1.5
3740.9122	17.00	-2.73	98372.970	1.5	101045.386	1.5
3740.9206	27.00	-3.42	49484.050	3.5	52156.460	4.5
3740.9220	14.00	-2.57	58775.451	2.0	61447.860	2.0
3741.0466	10.00	-2.50	169538.949	3.0	172211.269	3.0
3741.0564	10.00	-3.81	169538.956	2.0	172211.269	3.0
3741.1026	24.00	-4.32	51999.620	0.0	54671.900	1.0
3741.1208	12.00	-1.32	57017.724	1.0	59689.991	2.0
3741.2622	10.00	-3.80	169538.949	3.0	172211.115	2.0
3741.2720	10.00	-2.65	169538.956	2.0	172211.115	2.0
3741.5562	17.00	-3.66	98373.430	2.5	101045.386	1.5
3741.6767	24.00	-4.07	41409.030	2.0	44080.900	2.0
3741.9273	7.00	-1.35	107628.283	1.5	110299.974	2.5
3742.1109	9.02	-1.91	441385.880	1.5	444057.440	1.5
3742.2650	6.00	-3.07	86498.550	1.0	89170.000	1.0
3742.3349	7.00	-3.87	112946.600	.5	115618.000	.5
3742.3349	7.00	-4.44	112946.600	.5	115618.000	1.5
3742.3349	7.00	-4.29	112946.600	1.5	115618.000	.5
3742.3349	7.00	-4.19	112946.600	1.5	115618.000	1.5
3742.3349	7.00	-4.81	112946.600	1.5	115618.000	2.5
3742.3420	7.00	-3.04	110286.305	2.5	112957.700	2.5
3742.3448	10.00	-2.24	169530.487	2.0	172201.880	1.0
3742.3504	10.00	-2.69	169530.491	1.0	172201.880	1.0
3742.3910	6.00	-4.51	86498.640	2.0	89170.000	1.0
3742.4611	10.00	-3.54	169542.270	4.0	172213.580	4.0
3742.4611	10.00	-3.45	169542.270	5.0	172213.580	5.0
3742.5620	10.00	-2.09	170317.742	2.0	172988.980	1.0
3742.7693	6.00	-.92	83798.570	4.0	86469.660	4.0
3742.8254	11.00	-3.12	37057.650	2.5	39728.700	2.5
3742.8254	11.00	-1.82	37057.650	3.5	39728.700	2.5
3742.8254	11.00	-1.98	37057.650	2.5	39728.700	1.5
3742.8884	14.00	-2.81	60815.925	2.0	63486.930	1.0
3742.9431	12.00	-1.80	57019.025	2.0	59689.991	2.0
3742.9795	6.00	-2.18	83798.570	4.0	86469.510	3.0
3742.9894	10.00	-1.77	169534.364	4.0	172205.297	3.0
3743.0537	14.00	-1.13	54871.031	1.0	57541.918	1.0
3743.2234	10.00	-3.32	169534.364	4.0	172205.130	4.0
3743.2374	10.00	-1.67	169534.374	5.0	172205.130	4.0
3743.5233	14.00	-0.00	58893.400	3.0	61563.952	4.0
3743.5401	9.02	-3.06	441385.880	1.5	444056.420	.5
3743.8345	22.00	-4.57	39640.980	3.0	42311.310	3.0
3743.9888	10.00	-2.22	170585.040	1.0	173255.260	0.0
3744.0813	10.00	-2.21	169538.956	2.0	172209.110	1.0
3744.1289	6.00	-3.94	86411.980	3.0	89082.100	3.0
3744.2271	6.00	-4.76	86412.050	2.0	89082.100	3.0
3744.4796	29.01	.25	136725.930	5.0	139395.800	4.0
3744.4949	10.00	-2.56	169530.491	1.0	172200.350	0.0
3744.5679	14.00	.58	54528.220	2.0	57198.027	3.0
3744.6479	6.00	-1.52	87103.120	1.0	89772.870	2.0
3744.7601	24.00	-4.75	44050.870	4.0	46720.540	4.0
3744.7952	10.00	-3.06	170317.638	3.0	172987.283	3.0
3744.8596	10.00	-1.76	170317.684	4.0	172987.283	3.0
3744.8933	26.00	-3.82	45551.748	1.0	48221.323	1.0
3744.9059	10.00	-1.89	170317.638	3.0	172987.204	2.0
3744.9130	10.00	-3.19	170317.722	3.0	172987.283	3.0
3744.9144	18.02	-3.28	204563.530	1.0	207233.090	2.0
3744.9410	10.00	-4.36	170317.742	2.0	172987.283	3.0
3745.0126	27.00	-1.93	45876.580	2.5	48546.070	1.5
3745.0519	10.00	-3.04	170317.742	2.0	172987.204	2.0
3745.0799	10.00	-4.36	170317.638	3.0	172987.080	2.0
3745.1978	10.00	-1.89	170317.722	3.0	172987.080	2.0
3745.2258	10.00	-3.22	170317.742	2.0	172987.080	2.0
3745.2511	24.00	-4.72	48507.560	1.0	51176.880	0.0
3745.5318	17.00	-1.30	98383.720	3.5	101052.840	2.5
3745.5598	13.01	-1.09	144781.900	3.0	147451.000	3.0
3745.5598	13.01	.26	144781.900	3.0	147451.000	4.0
3745.5598	13.01	-1.75	144781.900	3.0	147451.000	4.0
3745.5738	28.01	-4.63	118442.810	1.5	121111.900	.5
3745.5920	14.00	-.40	58893.400	3.0	61562.477	3.0
3745.9247	24.00	-4.85	52003.060	1.0	54671.900	1.0
3745.9808	28.01	-2.21	120144.170	2.5	122812.970	3.5
3746.1774	28.01	-3.43	131928.770	4.5	134597.430	5.5
3746.4722	28.01	-3.81	133850.830	3.5	136519.280	4.5
3746.7670	10.00	-3.29	169543.029	3.0	172211.269	3.0
3746.7768	10.00	-1.82	169543.036	4.0	172211.269	3.0
3746.9580	7.00	-3.34	110212.396	2.5	112880.500	2.5
3746.9833	10.00	-1.95	169543.029	3.0	172211.115	2.0
3747.2164	6.00	-3.73	86411.980	3.0	89079.900	2.0
3747.3148	6.00	-3.81	86412.050	2.0	89079.900	2.0
3747.3415	10.00	-1.99	169538.949	3.0	172206.780	2.0
3747.3513	10.00	-3.14	169538.956	2.0	172206.780	2.0
3747.3990	27.00	-4.33	43555.220	3.5	46223.010	4.5
3747.5816	19.00	-1.71	30274.280	.5	32941.940	1.5
3747.6519	6.00	-3.79	86414.490	3.0	89082.100	3.0
3747.9329	6.00	-3.06	86414.690	4.0	89082.100	3.0
3748.0172	29.01	-1.73	137073.750	2.0	139741.100	3.0
3748.1577	27.00	-3.72	50105.050	1.5	52772.300	2.5
3748.1717	6.00	-3.84	86469.660	4.0	89136.900	4.0
3748.1858	10.00	-1.71	169814.630	2.0	172481.860	1.0
3748.2336	7.00	-3.51	110299.974	2.5	112967.170	3.5
3748.3685	6.00	.46	83747.390	2.0	86414.490	3.0
3748.4121	18.00	-2.36	121165.431	3.0	123832.500	3.0
3749.0053	26.00	-3.89	33412.706	3.0	36079.353	3.0
3749.1937	26.00	-3.59	52213.207	3.0	54879.720	2.0
3749.4355	10.00	-4.01	169538.956	2.0	172205.297	3.0
3749.4932	7.00	-4.52	112868.700	3.5	115535.000	2.5
3749.4932	7.00	-4.19	112868.700	3.5	115535.000	3.5
3749.6478	6.00	-3.62	86498.550	1.0	89164.740	1.0
3749.6492	12.00	-2.55	57214.992	1.0	59881.181	2.0
3749.6605	10.00	-3.91	169538.949	3.0	172205.130	4.0
3749.7744	6.00	-2.55	86498.640	2.0	89164.740	1.0
3749.8307	26.01	-3.18	84870.840	2.5	87536.900	3.5
3749.9151	15.00	-.39	75104.600	.5	77770.600	.5
3749.9573	23.00	-4.93	36461.260	2.5	39127.230	1.5
3750.0135	19.00	-2.02	30274.280	.5	32940.210	.5
3750.1120	26.00	-4.41	51945.860	1.0	54611.720	2.0
3750.2387	6.00	-.30	78116.740	1.0	80782.510	1.0
3750.3511	6.00	-2.60	87113.210	2.0	89778.900	3.0
3750.6270	7.00	.20	110212.396	2.5	112877.890	3.5
3750.7451	6.00	-3.64	86414.490	3.0	89079.900	2.0
3750.8211	7.00	-2.56	110299.974	2.5	112965.330	3.5
3750.8437	29.01	-4.93	116326.160	3.0	118991.500	4.0
3750.9169	18.00	-1.30	121270.682	2.0	123935.970	1.0
3751.1307	20.00	-2.97	46164.644	2.0	48829.780	2.0
3751.1307	20.00	-2.06	46164.644	2.0	48829.780	1.0
3751.1307	20.00	-4.34	46164.644	2.0	48829.780	3.0
3751.3222	18.01	-.97	199879.320	3.5	202544.320	2.5
3751.3293	20.00	-2.06	46164.785	3.0	48829.780	2.0
3751.3293	20.00	-2.79	46164.785	3.0	48829.780	3.0
3751.5052	28.01	-1.41	134294.990	2.5	136959.860	2.5
3751.5911	20.00	-1.73	46164.971	4.0	48829.780	3.0
3751.8009	6.00	-.53	83747.390	2.0	86412.050	2.0
3751.8994	6.00	-.07	83747.390	2.0	86411.980	3.0
3752.0980	8.00	-2.49	105441.657	1.0	108106.106	0.0
3752.1022	8.00	-2.49	105441.657	1.0	108106.103	1.0
3752.1022	8.00	-2.19	105441.657	2.0	108106.103	1.0
3752.1107	8.00	-2.34	105441.657	2.0	108106.097	2.0
3752.1107	8.00	-3.34	105441.657	1.0	108106.097	2.0
3752.1107	8.00	-1.96	105441.657	3.0	108106.097	2.0
3752.1135	14.00	-.42	54313.818	1.0	56978.256	1.0
3752.1219	8.00	-2.32	105441.657	3.0	108106.089	3.0
3752.1219	8.00	-3.34	105441.657	2.0	108106.089	3.0
3752.1219	8.00	-1.76	105441.657	4.0	108106.089	3.0
3752.1290	8.00	-2.46	105441.657	4.0	108106.084	4.0
3752.1290	8.00	-1.60	105441.657	5.0	108106.084	4.0
3752.1290	8.00	-3.64	105441.657	3.0	108106.084	4.0
3752.1529	28.01	-4.71	118563.390	3.5	121227.800	2.5
3752.3078	7.00	-4.71	112957.700	1.5	115622.000	2.5
3752.4388	12.00	-2.56	58442.843	3.0	61107.050	2.0
3752.4388	12.00	-1.23	58442.843	3.0	61107.050	3.0
3752.4388	12.00	-1.42	58442.843	3.0	61107.050	3.0
3752.4388	12.00	.05	58442.843	3.0	61107.050	4.0
3752.4486	29.01	-3.56	145978.400	3.0	148642.600	2.0
3752.4529	12.00	-1.18	58442.853	2.0	61107.050	2.0
3752.4529	12.00	-.36	58442.853	2.0	61107.050	3.0
3752.4529	12.00	-.96	58442.853	2.0	61107.050	3.0
3752.4825	12.00	-.28	58442.874	1.0	61107.050	2.0
3752.5107	18.00	-2.14	117183.654	2.0	119847.810	1.0
3752.7149	37.00	-1.13	27835.020	0.0	30499.757	0.0
3752.7867	28.01	-3.71	100078.780	1.5	102742.740	1.5
3752.8191	7.00	-1.88	110303.233	4.5	112967.170	3.5
3752.9740	7.00	-.83	110303.233	4.5	112967.060	4.5
3753.0344	26.01	-.98	84938.130	1.5	87601.900	1.5
3753.2235	6.00	-3.86	86498.550	1.0	89162.200	2.0
3753.3502	6.00	-3.06	86498.640	2.0	89162.200	2.0
3753.7308	10.01	-4.30	302903.650	2.5	305566.940	1.5
3753.7519	26.00	-4.73	51350.505	4.0	54013.780	5.0
3754.1254	6.00	-2.68	80834.610	3.0	83497.620	2.0
3754.2467	10.00	-3.37	169538.956	2.0	172201.880	1.0
3754.6331	6.00	-1.05	83820.130	1.0	86482.780	2.0
3754.7741	24.00	-4.81	31009.000	3.0	33671.550	3.0
3754.9574	28.01	-3.84	93390.060	2.5	96052.480	2.5
3755.1717	10.00	-2.72	169543.029	3.0	172205.297	3.0
3755.1816	10.00	-4.43	169543.036	4.0	172205.297	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3755.2113	10.00	-1.52	170597.190	2.0	173259.430	1.0
3755.4074	10.00	-4.16	169543.029	3.0	172205.130	4.0
3755.4130	7.00	-1.22	110303.233	4.5	112965.330	3.5
3755.4173	10.00	-2.62	169543.036	4.0	172205.130	4.0
3755.9731	21.00	-2.36	33615.060	1.5	36276.760	1.5
3756.0691	7.00	-2.15	111501.368	1.5	114163.000	1.5
3756.2553	15.00	-.91	65585.000	2.5	68246.500	2.5
3756.3118	22.00	-3.94	43583.140	3.0	46244.600	2.0
3756.3527	10.00	-4.93	169797.190	3.0	172458.621	3.0
3756.3697	18.00	-3.94	121165.431	3.0	123826.850	2.0
3756.3965	10.00	-1.48	170689.370	0.0	173350.770	1.0
3756.6223	6.00	-3.07	86482.660	3.0	89143.900	3.0
3756.7918	6.00	-4.08	86482.780	2.0	89143.900	3.0
3756.9611	14.00	-1.82	58786.860	3.0	61447.860	2.0
3757.1306	23.00	-4.60	36580.460	1.5	39241.340	2.5
3757.3946	10.00	-1.95	169814.630	2.0	172475.323	2.0
3757.4568	18.00	-3.70	120600.944	2.0	123261.593	2.0
3757.5825	6.00	-1.81	85169.610	0.0	87830.170	1.0
3757.5825	6.00	-.90	83838.080	2.0	86498.640	2.0
3757.7096	6.00	-1.25	83838.080	2.0	86498.550	1.0
3757.8183	7.00	-2.77	110220.107	1.5	112880.500	2.5
3757.9498	7.00	-4.39	112957.700	1.5	115618.000	.5
3757.9498	7.00	-3.97	112957.700	1.5	115618.000	1.5
3757.9498	7.00	-4.80	112957.700	2.5	115618.000	2.5
3758.3736	8.01	-3.23	258601.700	1.5	261261.700	1.5
3758.3736	6.00	-3.21	86482.660	3.0	89142.660	2.0
3758.3877	6.00	-1.23	87113.210	2.0	89773.200	3.0
3758.5431	6.00	-3.35	86482.780	2.0	89142.660	2.0
3758.8116	24.00	-4.05	41409.030	2.0	44068.720	3.0
3758.8540	6.00	-1.87	87113.210	2.0	89772.870	2.0
3759.1112	26.00	-3.96	51148.892	2.0	53808.370	1.0
3759.1367	24.00	-4.13	52012.440	2.0	54671.900	1.0
3759.4067	14.00	-1.77	60010.458	1.0	62669.727	2.0
3759.7163	28.01	-4.43	112906.930	1.5	115565.980	2.5
3760.2678	14.01	.02	122163.740	1.5	124822.400	2.5
3760.3074	7.00	-2.30	111501.368	1.5	114160.000	1.5
3760.3074	7.00	-1.33	111501.368	1.5	114160.000	2.5
3760.3527	14.01	-1.13	122163.800	2.5	124822.400	2.5
3760.3668	23.00	-3.71	36938.420	5.5	39597.010	4.5
3760.4376	14.01	.17	122163.800	2.5	124822.340	3.5
3760.6201	14.00	-.52	56978.256	1.0	59636.667	1.0
3760.9016	7.00	-1.74	107445.622	1.5	110103.834	1.5
3760.9610	9.00	-2.35	129937.330	1.5	132595.500	2.5
3761.1704	7.00	-.79	107628.283	1.5	110286.305	2.5
3761.2723	6.00	-1.65	85188.950	1.0	87846.900	0.0
3761.3855	28.01	-0.00	133734.980	3.5	136392.850	3.5
3761.7818	28.01	-1.00	133735.260	2.5	136392.850	3.5
3761.9092	30.02	-3.86	300212.300	4.0	302869.800	3.0
3761.9092	30.02	-4.53	300212.300	3.0	302869.800	3.0
3762.0508	24.00	-3.33	41393.470	5.0	44050.870	4.0
3762.2773	22.00	-3.61	41087.310	3.0	43744.550	4.0
3762.3339	29.01	-3.77	145985.400	2.0	148642.600	2.0
3762.4472	7.00	-4.04	112877.880	4.5	115535.000	3.5
3762.4613	7.00	-3.82	112877.890	3.5	115535.000	2.5
3762.4613	7.00	-4.90	112877.890	3.5	115535.000	3.5
3762.4897	26.02	-2.84	199262.440	3.0	201919.530	4.0
3762.5321	6.00	-4.84	86498.640	2.0	89155.700	3.0
3762.5463	28.01	.85	129271.720	3.5	131928.770	4.5
3763.0222	7.00	-.84	107588.469	.5	110245.183	.5
3763.0845	7.00	-3.52	112965.330	3.5	115622.000	2.5
3763.4528	14.00	-2.62	62226.390	1.0	64882.800	2.0
3763.6029	7.00	-1.47	110212.396	2.5	112868.700	3.5
3764.0437	7.00	-3.78	112294.007	.5	114950.000	1.5
3765.0260	7.00	-4.72	112868.700	3.5	115524.000	2.5
3765.0260	7.00	-3.94	112868.700	3.5	115524.000	3.5
3765.0317	17.00	-1.52	97530.130	2.5	100185.426	2.5
3765.3239	17.00	-1.75	97530.130	2.5	100185.220	1.5
3765.5082	6.00	-1.56	85188.950	1.0	87843.910	1.0
3765.6926	7.00	-4.36	112967.170	3.5	115622.000	2.5
3765.9110	14.00	-4.36	61597.404	3.0	64252.080	2.0
3766.4232	26.00	-3.60	45509.112	1.0	48163.427	2.0
3766.4232	26.00	-3.09	51350.505	4.0	54004.820	3.0
3766.5296	6.00	-4.38	86482.660	3.0	89136.900	4.0
3766.6716	14.00	-1.46	60300.860	2.0	62955.000	2.0
3766.8050	18.00	-2.59	120600.944	2.0	123254.990	1.0
3766.9625	14.00	-4.57	61598.145	2.0	64252.080	2.0
3767.4012	17.00	-3.64	91660.580	2.5	94314.206	1.5
3767.4381	30.02	-3.95	300173.400	1.0	302827.000	2.0
3767.4381	30.02	-3.00	300173.400	2.0	302827.000	2.0
3767.4381	14.00	-.70	60300.860	2.0	62954.460	3.0
3767.6794	6.00	.44	83761.260	3.0	86414.690	4.0
3767.9634	6.00	-1.12	83761.260	3.0	86414.490	3.0
3768.0344	6.00	-.30	78148.090	2.0	80801.270	2.0
3768.1481	15.01	-.53	129110.600	1.0	131763.700	1.0
3768.1481	15.00	-3.44	77655.200	3.5	80308.300	2.5
3768.2234	26.00	-4.68	47960.973	4.0	50614.020	4.0
3768.5742	29.01	-3.42	145978.400	3.0	148631.200	3.0
3768.8129	22.00	-3.96	41928.528	2.0	44581.160	2.0
3769.1425	15.01	-1.21	127368.000	2.0	130020.400	3.0
3770.1233	14.00	-3.32	60704.530	3.0	63356.240	2.0
3770.1660	29.01	-2.36	116388.000	2.0	119039.680	2.0
3770.4219	29.01	-1.54	138593.100	1.0	141244.600	1.0
3770.4504	14.00	-2.64	59190.460	1.0	61841.940	2.0
3770.9168	18.00	-4.35	122635.128	2.0	125286.280	1.0
3771.2469	6.00	-4.77	86185.200	2.0	88836.120	3.0
3771.3208	14.00	-1.81	59191.072	2.0	61841.940	2.0
3771.4033	14.00	-3.14	62231.990	2.0	64882.800	2.0
3771.4318	23.00	-3.18	34374.810	3.5	37025.600	3.5
3771.4318	6.00	-1.68	83761.260	3.0	86412.050	2.0
3771.5314	6.00	-.77	83761.260	3.0	86411.980	3.0
3771.5741	9.02	-2.30	441276.720	2.5	443927.410	3.5
3771.9298	28.01	-3.28	134286.380	4.5	136936.820	3.5
3771.9868	7.00	-4.26	112946.600	1.5	115597.000	1.5
3772.1760	7.00	-2.71	110303.233	4.5	112953.500	4.5
3772.2002	27.00	-1.68	46375.170	1.5	49025.420	1.5
3772.3184	7.00	-1.08	110303.233	4.5	112953.400	5.5
3772.4137	24.00	-4.76	46174.400	3.0	48824.500	4.0
3772.4992	22.00	-2.52	38544.380	3.0	41194.420	3.0
3772.8266	6.00	-1.38	83848.830	3.0	86498.640	2.0
3773.0089	14.00	-1.47	60706.558	1.0	63356.240	2.0
3773.0972	28.01	-4.09	134249.720	1.5	136899.340	2.5
3773.2965	23.00	-4.89	36477.750	.5	39127.230	1.5
3773.4731	26.00	-3.86	42859.756	2.0	45509.112	1.0
3773.9090	29.01	-4.65	130945.000	2.0	133594.050	3.0
3774.1769	14.00	-4.15	58774.368	3.0	61423.230	3.0
3774.2937	6.00	-5.00	84984.970	3.0	87633.750	2.0
3774.5502	23.00	-3.13	39597.010	4.5	42245.610	3.5
3775.0890	28.00	-2.66	46522.965	2.0	49171.187	1.0
3776.1185	15.00	-2.33	77946.600	2.5	80594.100	1.5
3776.2825	14.00	-3.98	61647.875	2.0	64295.260	3.0
3776.2882	20.00	-2.37	46182.399	3.0	48829.780	2.0
3776.2897	6.00	-.42	81105.030	1.0	83752.410	1.0
3776.3324	22.00	-3.19	41515.090	4.0	44162.440	4.0
3777.3655	7.00	-2.35	110299.974	2.5	112946.600	1.5
3777.6738	10.00	-4.46	169814.630	2.0	172461.040	1.0
3777.9121	20.00	-2.19	42343.587	3.0	44989.830	2.0
3778.0878	7.00	-3.66	112877.880	4.5	115524.000	3.5
3778.1021	7.00	-4.27	112877.890	3.5	115524.000	3.5
3778.1621	18.00	-1.73	121257.227	1.0	123903.295	2.0
3778.2934	14.00	-1.99	61597.404	3.0	64243.380	2.0
3778.5447	29.01	-4.59	145985.400	2.0	148631.200	3.0
3778.8304	30.02	-4.56	300224.200	4.0	302869.800	3.0
3778.9018	28.01	-4.62	133903.000	1.5	136548.550	2.5
3779.3161	6.00	-4.24	86498.640	2.0	89143.900	3.0
3779.3518	14.00	-2.68	61598.145	2.0	64243.380	2.0
3779.4632	7.00	-1.14	111501.368	1.5	114146.525	2.5
3780.1163	6.00	-.54	83838.080	2.0	86482.780	2.0
3780.1878	28.01	-4.95	134254.690	1.5	136899.340	2.5
3780.2879	6.00	-1.69	83838.080	2.0	86482.660	3.0
3780.3308	6.00	-3.79	72610.720	2.0	75255.270	2.0
3780.5166	28.01	-4.50	130801.330	4.5	133445.750	4.5
3780.9598	6.00	-4.78	86498.550	1.0	89142.660	2.0
3781.0886	6.00	-4.04	86498.640	2.0	89142.660	2.0
3781.1300	10.00	-2.95	169814.630	2.0	172458.621	3.0
3781.1986	7.00	-3.12	104984.340	.5	107628.283	1.5
3781.4060	10.00	-3.76	169814.630	2.0	172458.428	2.0
3781.5891	29.01	-1.06	138898.430	1.0	141542.100	2.0
3781.7035	6.00	-2.71	85188.950	1.0	87832.540	2.0
3781.7722	17.00	-1.76	97703.640	1.5	100347.182	2.5
3781.8323	7.00	-4.91	112880.500	2.5	115524.000	1.5
3781.9939	14.00	-1.39	60487.103	1.0	63130.490	1.0
3782.1328	28.01	-4.23	134256.050	2.5	136899.340	2.5
3782.1900	10.00	-4.48	169814.630	2.0	172457.880	2.0
3782.1900	6.00	-3.84	72610.720	2.0	75253.970	1.0
3782.2029	17.00	-.71	97703.941	2.5	100347.182	2.5
3782.2615	28.01	-2.56	103025.580	2.5	105668.780	2.5
3782.3058	18.00	-3.28	121165.431	3.0	123808.600	2.0
3782.3474	24.00	-4.34	52003.060	1.0	54646.200	0.0
3782.4318	18.00	-2.03	122479.459	1.0	125122.540	0.0
3782.5148	22.00	-4.88	37659.927	3.0	40302.950	3.0
3782.6622	10.01	-4.82	303600.500	2.5	306243.420	2.5
3783.2391	18.00	-2.36	120619.076	2.0	123261.593	2.0
3783.3923	10.00	-1.82	169839.450	1.0	172481.860	1.0
3783.4639	6.00	-3.33	81105.030	1.0	83747.390	2.0
3783.6501	29.01	-2.06	135759.970	2.0	138402.200	3.0
3783.7217	6.00	-3.23	86411.980	3.0	89054.160	2.0
3783.7360	25.00	-2.58	59784.310	3.5	62426.480	3.5
3783.8219	6.00	-3.48	86412.050	2.0	89054.160	2.0
3783.8935	22.00	-2.94	31685.900	0.0	34327.960	1.0
3784.1226	18.00	-2.02	123882.300	1.0	126524.200	0.0
3784.2229	28.01	-3.88	134294.990	2.5	136936.820	3.5
3784.3891	14.00	-2.64	60848.946	4.0	63490.660	3.0
3784.3963	14.00	-3.31	61303.381	3.0	63945.090	3.0
3784.4636	18.00	-4.26	123653.238	4.0	126294.900	3.0
3784.4636	18.00	-3.08	123653.238	4.0	126294.900	4.0
3784.9536	26.00	-3.82	48238.832	2.0	50880.152	1.0
3785.0969	6.00	-2.98	85188.950	1.0	87830.170	1.0
3785.6889	14.00	-4.56	61304.283	2.0	63945.090	3.0
3786.0143	18.00	-2.54	121191.920	2.0	123832.500	3.0
3786.4588	6.00	-1.56	85203.640	2.0	87843.910	1.0
3786.8977	14.00	-1.49	60848.946	4.0	63488.910	4.0
3787.0183	17.00	-.78	97530.130	2.5	100170.010	2.5
3787.2621	17.00	-1.56	97530.130	2.5	100169.840	3.5
3787.2980	28.00	-1.34	48817.600	1.0	51457.285	0.0
3787.3195	6.00	-2.38	86414.490	3.0	89054.160	2.0
3787.5060	28.01	-.10	136201.460	3.5	138841.000	3.5
3787.8361	28.01	-4.88	134256.050	2.5	136895.360	3.5
3787.8504	7.00	-4.53	112957.700	1.5	115597.000	1.5
3787.8504	7.00	-4.62	112957.700	2.5	115597.000	1.5
3788.1891	14.00	-3.84	60848.946	4.0	63488.010	3.0
3789.1756	14.00	-2.49	61306.713	4.0	63945.090	3.0
3789.6596	10.00	-1.96	169843.820	2.0	172481.860	1.0
3789.8507	22.00	-2.14	34535.040	2.0	37172.947	1.0
3790.1970	7.00	-2.04	104615.440	1.5	107253.106	2.5
3790.2746	17.00	-3.50	85442.430	1.5	88080.042	2.5
3790.4355	13.01	-.75	146185.000	2.0	148822.500	2.0
3790.4355	13.01	-.02	146185.000	1.0	148822.500	2.0
3790.4355	13.01	-.21	146185.000	2.0	148822.500	3.0
3790.4355	13.01	-2.29	146185.000	3.0	148822.500	2.0
3790.4355	13.01	-1.12	146185.000	3.0	148822.500	3.0
3790.4355	13.01	.31	146185.000	3.0	148822.500	4.0
3790.5217	26.00	-4.39	52110.300	1.0	54747.740	1.0
3790.7661	28.01	-4.62	134262.070	3.5	136899.340	2.5
3790.8523	22.00	-4.90	41943.950	1.0	44581.160	2.0
3790.9242	27.00	-4.64	49484.050	3.5	52121.210	4.5
3790.9415	28.00	-3.72	49403.420	1.0	52040.568	2.0
3791.1427	18.00	-.50	118459.662	1.0	121096.670	0.0
3791.9451	29.01	-1.02	137073.750	2.0	139710.200	2.0
3791.9566	22.00	-2.95	17369.590	1.0	20006.032	2.0
3792.0602	14.00	-3.82	58786.860	3.0	61423.230	3.0
3792.2227	14.00	-1.28	60487.103	1.0	63123.360	0.0
3792.3479	14.00	-.91	60704.530	3.0	63340.700	3.0
3792.4558	28.00	-1.85	46522.965	2.0	49159.060	2.0
3792.4673	17.00	-.42	97530.130	2.5	100166.217	3.5
3792.7162	18.00	-3.55	120619.076	2.0	123254.990	1.0
3792.7752	10.00	-2.51	169839.450	1.0	172475.323	2.0
3793.2055	26.00	-3.92	49135.003	3.0	51770.577	3.0
3793.2544	6.00	-3.43	78199.070	2.0	80834.610	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3793.3969	14.00	-1.26	59506.359	2.0	62141.800	1.0
3793.6114	7.00	-2.56	104810.330	2.5	107445.622	1.5
3793.9886	6.00	-.78	81105.030	1.0	83740.060	0.0
3794.0620	7.00	-4.16	110322.721	1.5	112957.700	2.5
3794.1325	18.00	-2.77	121191.920	2.0	123826.850	2.0
3794.1757	14.00	-.37	60300.860	2.0	62935.760	3.0
3794.3328	18.00	-1.43	122440.109	2.0	125074.900	2.0
3794.7662	28.01	-4.92	131637.100	3.5	134271.590	4.5
3794.8670	6.00	-1.50	78148.090	2.0	80782.510	1.0
3794.9679	14.00	-2.46	58788.880	4.0	61423.230	3.0
3795.0832	9.00	-1.78	130374.860	1.5	133009.130	.5
3795.1264	28.01	-3.53	131620.450	1.5	134254.690	1.5
3795.2056	28.00	-3.22	48671.900	3.0	51306.085	3.0
3795.2820	14.00	-1.04	60496.358	2.0	63130.490	1.0
3795.4477	22.00	-4.21	36065.750	3.0	38699.767	2.0
3795.5442	6.00	-1.44	83848.830	3.0	86482.780	2.0
3795.5442	17.00	-4.03	98418.890	3.5	101052.840	2.5
3795.6163	30.02	-4.06	300193.100	2.0	302827.000	2.0
3795.6163	30.02	-2.82	300193.100	3.0	302827.000	2.0
3795.7172	6.00	-.14	83848.830	3.0	86482.660	3.0
3795.8469	17.00	-2.56	98419.100	2.5	101052.840	2.5
3795.9477	26.01	-2.03	84938.130	1.5	87571.800	2.5
3796.1251	7.00	-.99	104144.790	.5	106778.337	1.5
3796.4955	28.01	-4.71	134262.070	3.5	136895.360	3.5
3796.6022	17.00	-2.57	91680.990	1.5	94314.206	1.5
3796.6079	7.00	-4.83	110247.288	3.5	112880.500	2.5
3796.9713	17.00	-2.06	92194.190	1.5	94827.150	2.5
3797.2858	26.00	-4.64	48516.150	1.0	51148.892	2.0
3797.2930	26.00	-3.70	45333.834	2.0	47966.571	3.0
3797.4718	18.00	-.89	121270.682	2.0	123903.295	2.0
3797.6479	18.00	-2.38	122440.109	2.0	125072.600	1.0
3797.8541	17.00	-.60	95786.752	2.5	98419.100	2.5
3798.0013	7.00	-2.75	110194.654	1.5	112826.900	2.5
3798.0677	29.01	-4.61	145889.600	0.0	148521.800	1.0
3798.1571	17.00	-1.92	95786.752	2.5	98418.890	3.5
3798.2524	12.00	-1.93	57017.078	0.0	59649.150	1.0
3798.2942	7.00	-4.67	104996.240	1.5	107628.283	1.5
3798.3534	26.00	-4.77	45061.287	3.0	47693.289	3.0
3798.6449	29.01	-4.14	145927.500	2.0	148559.300	2.0
3798.8787	7.00	-3.56	107588.469	.5	110220.107	1.5
3799.0737	10.00	-1.72	169843.820	2.0	172475.323	2.0
3799.1790	6.00	.23	83838.080	2.0	86469.510	3.0
3799.1848	12.00	-1.46	57017.724	1.0	59649.150	1.0
3799.3234	17.00	-3.29	94314.206	1.5	96945.536	2.5
3799.3552	16.00	-.67	77889.582	2.0	80520.890	1.0
3799.6844	21.00	-1.61	31275.320	3.5	33906.400	4.5
3800.0022	21.00	-1.50	31215.760	2.5	33846.620	3.5
3800.0022	28.01	-2.40	129297.910	3.5	131928.770	4.5
3800.3748	7.00	-1.13	110247.288	3.5	112877.890	3.5
3800.3893	7.00	.60	110247.288	3.5	112877.880	4.5
3800.5222	17.01	-4.26	126032.000	2.0	128662.500	2.0
3800.6378	29.01	-1.10	136765.380	4.0	139395.800	4.0
3800.6667	26.00	-4.26	48350.620	1.0	50981.020	0.0
3800.8112	10.01	-4.39	318804.260	1.5	321434.560	2.5
3800.8112	14.00	-1.48	60856.630	1.0	63486.930	1.0
3800.9630	7.00	-4.49	112319.805	1.5	114950.000	1.5
3801.0641	12.00	-1.23	57019.025	2.0	59649.150	1.0
3801.1147	28.01	-4.37	131750.730	3.5	134380.820	3.5
3801.3892	13.01	-2.71	144638.900	2.0	147268.800	1.0
3801.3892	13.01	-3.18	144638.900	1.0	147268.800	1.0
3801.6770	18.00	-4.35	119023.699	4.0	121653.400	3.0
3801.6770	18.00	-3.54	119023.699	4.0	121653.400	4.0
3801.7362	27.00	-2.01	43295.320	4.5	45924.980	3.5
3801.8663	10.01	-3.42	304440.240	.5	307069.810	1.5
3802.0109	23.00	-4.22	41436.580	3.5	44066.050	3.5
3802.0471	7.00	-1.15	107182.788	1.5	109812.233	.5
3802.3493	28.00	-.83	51124.800	3.0	53754.036	2.0
3802.6762	6.00	-3.10	86331.630	1.0	88960.640	0.0
3802.8049	37.00	-.87	27870.110	0.0	30499.748	0.0
3802.8352	6.00	-.88	85203.640	2.0	87832.540	2.0
3802.9351	28.00	-2.21	42790.027	2.0	45418.858	2.0
3803.2230	7.00	-2.17	111501.368	1.5	114130.000	.5
3803.7613	28.01	-4.67	133903.000	1.5	136531.260	1.5
3804.4793	14.00	-.46	59917.336	2.0	62545.100	1.0
3804.4851	20.01	-.30	87671.930	1.5	90299.690	2.5
3804.5575	28.01	-4.45	134252.850	3.5	136880.560	4.5
3805.0498	28.01	-4.76	130900.650	2.5	133528.020	3.5
3805.7306	13.01	-.74	144641.900	0.0	147268.800	1.0
3806.2667	6.00	-2.12	85203.640	2.0	87830.170	1.0
3806.6203	17.00	-3.24	98419.100	2.5	101045.386	1.5
3806.9479	21.00	-1.62	31172.620	1.5	33798.680	2.5
3806.9914	28.01	-4.78	120211.300	5.5	122837.330	4.5
3807.0784	20.01	-.15	87673.720	2.5	90299.690	3.5
3807.0784	20.01	-1.45	87673.720	2.5	90299.690	2.5
3807.2031	26.00	-4.52	47960.973	4.0	50586.857	3.0
3807.3104	25.00	-4.86	56490.790	2.5	59116.600	2.5
3807.7817	26.00	-4.43	53281.735	5.0	55907.220	5.0
3808.0166	14.00	-3.81	61562.477	3.0	64187.800	3.0
3808.1000	3.00	.47	36470.000	0.0	39095.981	0.0
3808.3793	18.00	-4.48	121257.227	1.0	123882.300	1.0
3808.5287	28.01	-4.84	131637.100	3.5	134262.070	3.5
3809.1382	23.00	-4.10	39127.230	1.5	41751.780	.5
3809.6463	8.03	-.38	510574.100	2.5	513198.300	3.5
3810.1124	7.00	-2.02	110322.721	1.5	112946.600	1.5
3810.1574	14.00	-2.26	61563.952	4.0	64187.800	3.0
3810.5030	18.00	-4.09	121191.920	2.0	123815.530	1.0
3810.6337	9.00	.04	130374.860	1.5	132998.380	1.5
3810.6918	27.00	-3.47	46454.950	1.5	49078.430	1.5
3810.9605	18.00	-.10	116942.815	3.0	119566.110	3.0
3811.0404	21.00	-2.64	33707.250	2.5	36330.490	2.5
3811.2584	19.00	-1.64	31765.370	.5	34388.460	1.5
3811.4473	10.01	-4.74	318805.100	2.5	321428.060	3.5
3811.6943	19.00	-1.94	31765.370	.5	34388.160	.5
3811.9414	21.00	-4.35	39392.950	3.5	42015.570	3.5
3812.5592	7.00	-3.53	112319.805	1.5	114942.000	2.5
3812.6756	14.00	-1.73	60962.105	2.0	63584.220	1.0
3813.4245	18.02	-3.22	243424.970	3.0	246046.570	4.0
3813.4391	10.00	-3.86	169839.450	1.0	172461.040	1.0
3813.6980	7.00	-1.61	110247.288	3.5	112868.700	3.5
3813.8900	18.01	.32	200880.520	3.5	203501.800	2.5
3814.1520	29.01	-3.94	146021.500	3.0	148642.600	2.0
3814.5449	6.00	.38	83848.830	3.0	86469.660	4.0
3814.7341	29.01	-3.58	145901.100	1.0	148521.800	1.0
3814.7632	6.00	-1.61	83848.830	3.0	86469.510	3.0
3814.9074	12.00	-.75	58476.689	0.0	61097.270	1.0
3814.9641	7.00	-.26	104825.080	2.5	107445.624	1.5
3815.3892	12.00	-.87	58477.020	1.0	61097.270	1.0
3815.3892	12.00	-.57	58477.020	1.0	61097.270	2.0
3815.6222	29.01	-3.27	116371.410	4.0	118991.500	4.0
3815.7242	6.00	-2.66	85169.610	0.0	87789.630	1.0
3816.0650	18.00	-2.83	120600.944	2.0	123220.730	2.0
3816.0985	7.00	-3.64	105008.520	2.5	107628.283	1.5
3816.2034	18.00	-2.16	122440.109	2.0	125059.800	2.0
3816.2486	28.01	-2.84	103663.500	1.5	106283.160	2.5
3816.2894	16.00	-1.37	77901.258	0.0	80520.890	1.0
3816.4671	12.00	-2.05	58477.760	2.0	61097.270	1.0
3816.4671	12.00	-1.04	58477.760	2.0	61097.270	2.0
3816.4671	12.00	-.12	58477.760	2.0	61097.270	3.0
3816.4817	22.00	-3.89	39526.890	2.0	42146.390	1.0
3816.6274	12.02	-.69	581734.700	1.0	584354.100	2.0
3816.8678	18.00	-.78	118651.447	1.0	121270.682	2.0
3816.9611	14.00	-.39	57017.496	2.0	59636.667	1.0
3817.0646	6.00	-1.55	78215.510	3.0	80834.610	3.0
3817.2248	20.02	-2.63	383156.510	4.0	385775.500	4.0
3817.2423	10.00	-4.62	169839.450	1.0	172458.428	2.0
3817.2977	28.01	-3.03	96535.870	3.5	99154.810	4.5
3817.3269	29.01	-3.73	114511.440	1.0	117130.360	2.0
3817.3269	10.01	-4.34	318812.120	4.5	321431.040	5.5
3818.0412	10.00	-3.36	169839.450	1.0	172457.880	2.0
3818.0616	26.00	-4.44	45913.480	3.0	48531.896	3.0
3818.0996	20.02	-4.23	383157.110	3.0	385775.500	4.0
3818.2308	16.00	-1.30	78690.680	2.0	81308.980	2.0
3818.2308	16.00	-.40	78690.680	2.0	81308.980	3.0
3818.9018	16.00	-2.84	78691.140	3.0	81308.980	2.0
3818.9018	16.00	-1.30	78691.140	3.0	81308.980	3.0
3818.9018	16.00	-.24	78691.140	3.0	81308.980	4.0
3819.0958	26.00	-4.43	48361.920	4.0	50979.627	4.0
3819.3978	8.03	-.53	510569.700	1.5	513187.200	2.5
3819.7509	26.00	-4.98	29320.050	1.0	31937.308	1.0
3819.8064	10.00	-4.94	169843.820	2.0	172461.040	1.0
3819.8356	15.00	-1.96	77843.900	2.5	80461.100	3.5
3819.9962	16.00	-.57	78691.890	1.0	81308.980	2.0
3820.2735	7.00	-1.15	107628.283	1.5	110245.183	.5
3820.5947	18.00	-4.67	121191.920	2.0	123808.600	2.0
3820.7699	17.00	-3.31	98373.430	2.5	100989.990	3.5
3821.4125	6.00	-.18	83798.570	4.0	86414.690	4.0
3821.5586	28.01	-3.13	133973.330	2.5	136589.350	3.5
3821.6243	17.00	-4.42	94314.206	1.5	96930.181	.5
3821.7047	6.00	-2.49	83798.570	4.0	86414.490	3.0
3821.8172	18.00	-2.67	121257.227	1.0	123873.070	0.0
3821.9749	14.00	-.50	59032.140	2.0	61647.875	2.0
3822.0553	25.00	-1.97	57485.970	2.5	60101.650	2.5
3822.2161	28.01	-4.70	134283.760	.5	136899.330	1.5
3822.7276	14.00	-.84	59032.140	2.0	61647.360	1.0
3823.3402	10.00	-4.56	169843.820	2.0	172458.621	3.0
3823.6224	10.00	-3.91	169843.820	2.0	172458.428	2.0
3823.7745	7.00	-.22	110212.396	2.5	112826.900	2.5
3823.7745	7.00	.38	110212.396	2.5	112826.900	3.5
3823.9266	29.01	-.70	139119.500	3.0	141733.900	2.0
3823.9412	23.00	-3.95	34374.810	3.5	36989.200	2.5
3824.5981	7.00	-1.00	104144.790	.5	106758.731	.5
3825.3605	28.01	.75	127867.130	4.5	130480.550	3.5
3825.3752	6.00	-1.73	83798.570	4.0	86411.980	3.0
3825.8290	8.03	-1.68	510574.100	2.5	513187.200	2.5
3825.9461	27.00	-3.74	49847.080	2.5	52460.100	2.5
3825.9608	27.00	-2.16	43263.570	1.5	45876.580	2.5
3826.3561	29.01	-2.92	136270.260	4.0	138883.000	4.0
3826.3854	6.00	-3.16	78731.270	1.0	81343.990	2.0
3826.4440	6.00	-2.15	86912.860	1.0	89525.540	1.0
3826.5758	6.00	-3.58	86469.510	3.0	89082.100	3.0
3826.7955	6.00	-2.24	86469.660	4.0	89082.100	3.0
3827.7333	15.00	-4.30	72741.600	1.5	75353.400	1.5
3827.9238	18.02	-3.81	243424.970	3.0	246036.640	3.0
3828.0000	18.00	-2.57	121270.682	2.0	123882.300	1.0
3828.7448	23.00	-3.83	39398.820	3.5	42009.930	2.5
3828.9060	12.02	-.91	581734.700	1.0	584345.700	1.0
3828.9794	27.00	-3.97	49484.050	3.5	52095.000	3.5
3829.2580	10.01	-4.19	318812.120	4.5	321422.880	5.5
3829.6981	10.01	-4.74	318812.770	3.5	321423.230	4.5
3829.8008	6.00	-2.36	86469.510	3.0	89079.900	2.0
3829.9959	14.00	-.87	60487.103	1.0	63097.360	1.0
3830.0649	28.01	-4.03	134156.280	1.5	136766.490	2.5
3830.1984	26.00	-4.11	49227.160	3.0	51837.279	3.0
3830.4611	14.01	-1.31	124822.340	3.5	127432.280	3.5
3830.4611	14.01	.23	124822.340	3.5	127432.280	4.5
3830.5492	14.01	.12	124822.400	2.5	127432.280	3.5
3830.8134	29.01	-4.04	146021.500	3.0	148631.200	3.0
3831.0483	6.00	-3.70	86912.860	1.0	89522.400	2.0
3831.5181	27.00	-4.16	48443.760	2.5	51052.980	3.5
3831.6944	6.00	-3.47	86185.200	2.0	88794.300	2.0
3831.7971	28.01	-4.28	118294.170	3.5	120903.200	3.5
3831.8706	28.01	-4.59	134286.380	4.5	136895.360	3.5
3832.0865	18.00	-.10	117151.387	1.0	119760.220	1.0
3832.1056	18.02	-4.66	243424.970	3.0	246033.790	2.0
3832.1643	25.00	-3.31	59817.700	2.5	62426.480	3.5
3832.5918	18.00	-2.89	121165.431	3.0	123773.920	3.0
3832.8402	6.00	-3.56	86482.780	2.0	89091.100	1.0
3832.8740	16.00	-.89	77912.593	1.0	80520.890	1.0
3832.9430	18.00	-1.97	122514.290	1.0	125122.540	0.0
3832.9871	28.01	-1.64	119833.000	5.5	122441.220	4.5
3833.4281	23.00	-4.66	34619.520	2.5	37227.440	2.5
3833.4986	20.00	-3.50	45425.358	1.0	48033.230	2.0
3833.5133	17.00	-1.86	97739.320	1.5	100347.182	2.5
3833.7720	7.00	-1.45	110350.014	.5	112957.700	1.5
3833.8103	26.01	-1.19	84863.140	5.5	87470.800	4.5
3833.9779	14.00	-.39	56503.346	2.0	59110.892	2.0
3834.5897	18.01	-2.11	172213.800	1.5	174820.930	.5
3834.7647	22.00	-4.64	28882.440	3.0	31489.451	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3835.0854	7.00	.35	110220.107	1.5	112826.900	2.5
3835.2516	28.01	-3.00	115956.710	2.5	118563.390	3.5
3835.3502	14.00	-.02	56503.346	2.0	59109.959	3.0
3835.3885	17.00	-1.47	94732.300	3.5	97338.887	2.5
3835.4282	17.00	-2.02	98383.430	4.5	100989.990	3.5
3835.6931	22.00	-4.69	44581.160	2.0	47187.540	2.0
3835.8005	14.00	-1.20	60487.103	1.0	63093.410	2.0
3835.8549	17.00	-3.68	98383.720	3.5	100989.990	3.5
3835.9801	7.00	-.45	107588.469	.5	110194.654	1.5
3836.0905	22.00	-2.52	41556.330	5.0	44162.440	4.0
3836.5763	18.00	-1.61	118651.447	1.0	121257.227	1.0
3836.5909	18.01	-.89	190106.230	1.5	192712.000	1.5
3836.7677	6.00	-3.73	86185.200	2.0	88790.850	1.0
3837.0327	10.01	-1.78	318828.550	2.5	321434.020	1.5
3837.7825	26.00	-4.66	49135.003	3.0	51739.964	2.0
3837.7840	22.00	-4.82	36065.750	3.0	38670.710	4.0
3837.8930	18.00	-3.94	120600.944	2.0	123205.830	3.0
3838.1552	7.00	-3.44	110362.462	3.5	112967.170	3.5
3838.3174	7.00	.80	110362.462	3.5	112967.060	4.5
3838.4839	18.00	-.54	118407.494	1.0	121011.979	1.0
3838.5296	26.00	-3.52	47929.981	4.0	50534.435	3.0
3838.6829	28.01	-4.84	134294.990	2.5	136899.340	2.5
3838.8303	28.01	-4.63	110573.360	2.5	113177.610	3.5
3839.0086	7.00	-2.82	104984.340	.5	107588.469	.5
3839.1575	22.00	-3.49	38764.832	3.0	41368.860	4.0
3839.5379	28.01	.71	127867.130	4.5	130470.900	4.5
3839.7886	29.01	-3.83	145955.700	1.0	148559.300	2.0
3839.8918	14.02	-1.13	227665.090	2.0	230268.620	3.0
3840.0246	6.00	-1.52	81343.990	2.0	83947.430	3.0
3840.0630	7.00	-1.23	107253.106	2.5	109856.520	1.5
3840.0984	24.00	-4.98	46058.200	4.0	48661.590	3.0
3840.2017	9.00	-.07	130141.650	1.5	132744.970	1.5
3840.2459	6.00	-2.04	85203.640	2.0	87806.930	3.0
3840.8685	7.00	-2.79	110362.462	3.5	112965.330	3.5
3841.0869	28.01	-4.99	134249.720	1.5	136852.440	1.5
3841.2493	14.02	-4.97	227665.090	2.0	230267.700	2.0
3841.6714	14.00	-.93	59917.336	2.0	62519.660	2.0
3841.8397	22.00	-2.83	31725.750	1.0	34327.960	1.0
3841.8545	6.00	-1.06	78199.070	2.0	80801.270	2.0
3842.4452	15.00	-.54	77734.500	2.5	80336.300	2.5
3842.5928	29.01	-2.78	146029.500	4.0	148631.200	3.0
3842.6608	18.00	-4.02	120619.076	2.0	123220.730	2.0
3843.6240	14.00	-1.35	60496.358	2.0	63097.360	1.0
3844.0999	6.00	-2.57	85188.950	1.0	87789.630	1.0
3844.3807	20.02	-2.77	383157.110	3.0	385757.600	3.0
3844.8243	10.00	-4.30	171009.340	1.0	173609.530	1.0
3844.9870	18.00	-1.22	122686.200	1.0	125286.280	1.0
3845.1052	15.00	-4.63	72884.400	2.5	75484.400	2.5
3845.2828	18.00	-.21	122686.400	2.0	125286.280	1.0
3845.3715	28.01	-4.88	131686.560	4.5	134286.380	4.5
3845.8582	18.00	-1.66	122440.109	2.0	125039.600	1.0
3845.9336	6.00	-4.19	86482.660	3.0	89082.100	3.0
3846.3924	10.00	-3.57	171009.340	1.0	173608.470	2.0
3846.5847	18.01	-4.07	186815.960	3.5	189414.960	3.5
3846.7327	28.01	-3.22	134281.660	5.5	136880.560	4.5
3846.8216	14.00	-1.87	61423.230	3.0	64022.070	3.0
3847.3693	28.01	-3.46	131928.770	4.5	134527.240	3.5
3847.4582	16.00	-.93	77849.790	1.0	80448.200	2.0
3847.7691	15.00	-1.81	65585.000	2.5	68183.200	1.5
3847.8876	6.00	-3.29	86362.520	1.0	88960.640	0.0
3847.9617	14.00	-3.35	61423.230	3.0	64021.300	2.0
3847.9823	20.00	-2.78	46164.644	2.0	48762.700	2.0
3847.9823	20.00	-1.88	46164.644	2.0	48762.700	1.0
3847.9823	20.00	-4.16	46164.644	2.0	48762.700	3.0
3848.1912	20.00	-1.88	46164.785	3.0	48762.700	2.0
3848.1912	20.00	-2.61	46164.785	3.0	48762.700	3.0
3848.4357	28.01	-3.48	134254.690	1.5	136852.440	1.5
3848.4668	20.00	-1.55	46164.971	4.0	48762.700	3.0
3848.4949	27.00	-3.98	50105.050	1.5	52702.760	1.5
3848.7023	6.00	-2.90	86912.860	1.0	89510.430	2.0
3848.7616	20.00	-.90	41679.008	1.0	44276.538	0.0
3848.9098	28.01	-4.84	120250.170	3.5	122847.600	3.5
3849.1172	6.00	-3.58	87113.210	2.0	89710.500	3.0
3849.1913	6.00	-3.47	86482.660	3.0	89079.900	2.0
3849.2388	14.00	-3.29	54871.031	1.0	57468.239	2.0
3849.3692	6.00	-4.44	86482.780	2.0	89079.900	2.0
3849.4699	14.00	-.98	60496.358	2.0	63093.410	2.0
3849.5945	17.00	.68	95786.752	2.5	98383.720	3.5
3849.7250	14.00	-2.26	61423.230	3.0	64020.110	4.0
3849.9191	7.00	-4.89	110349.060	2.5	112945.809	2.5
3850.0066	28.01	-3.89	91800.050	4.5	94396.740	5.5
3850.0378	7.00	-3.70	110349.140	3.5	112945.809	2.5
3850.1609	7.00	-1.75	110350.014	.5	112946.600	.5
3850.5019	37.00	-.20	23715.081	0.0	26312.145	0.0
3850.7778	14.00	-3.09	61423.230	3.0	64019.400	3.0
3850.8208	17.00	.17	94663.670	1.5	97259.811	1.5
3850.8816	30.02	-4.53	300212.300	3.0	302808.400	4.0
3851.0002	14.00	-3.48	61647.360	1.0	64243.380	2.0
3851.1486	6.00	-2.21	86317.640	2.0	88913.560	2.0
3851.1546	16.00	-.71	77852.284	2.0	80448.200	2.0
3851.1783	9.00	-.79	130149.070	.5	132744.970	1.5
3851.5047	18.01	-3.51	212071.800	3.5	214667.480	2.5
3851.7644	14.00	-2.71	61647.875	2.0	64243.380	2.0
3851.8312	10.01	-4.01	318828.550	3.5	321424.010	4.5
3851.8594	18.00	-2.27	122479.459	1.0	125074.900	2.0
3852.0345	14.00	-1.31	59636.667	1.0	62231.990	2.0
3852.1607	7.00	-2.00	110362.462	3.5	112957.700	2.5
3852.2720	14.00	-1.60	54185.264	1.0	56780.427	1.0
3852.3655	28.01	-4.68	131686.560	4.5	134281.660	5.5
3852.5733	29.01	-1.91	118484.000	3.0	121078.960	3.0
3852.7367	27.00	-4.32	52355.120	.5	54949.970	1.5
3853.1094	26.00	-4.75	49242.680	2.0	51837.279	3.0
3853.2712	6.00	-2.73	78731.270	1.0	81325.760	1.0
3853.3158	9.02	-.32	441158.600	1.5	443753.060	2.5
3853.3945	26.00	-4.45	49242.872	3.0	51837.279	3.0
3853.7094	7.00	-3.61	110286.305	2.5	112880.500	2.5
3853.7317	28.01	-3.56	134286.380	4.5	136880.560	4.5
3853.8654	10.00	-1.79	169976.740	0.0	172570.830	1.0
3855.1881	15.00	-.64	75353.400	1.5	77946.600	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3855.2758	18.00	-1.64	122479.459	1.0	125072.600	1.0
3855.6044	10.01	-4.89	318835.140	2.5	321428.060	3.5
3855.6950	7.00	-1.47	104221.600	1.5	106814.459	2.5
3855.9256	16.00	-.57	77855.496	3.0	80448.200	2.0
3856.3034	10.01	-3.97	302989.820	1.5	305582.270	.5
3856.6322	7.00	-2.55	104996.240	1.5	107588.469	.5
3856.7646	10.01	-2.32	318828.550	2.5	321420.690	2.5
3856.7646	10.01	-1.81	318828.550	3.5	321420.690	2.5
3856.9729	30.02	-4.42	300212.300	4.0	302804.300	5.0
3857.0324	9.02	-1.60	441276.720	2.5	443868.680	2.5
3857.0920	6.00	.28	83820.130	1.0	86412.050	2.0
3857.1812	10.01	-4.00	318828.550	2.5	321420.410	1.5
3857.2110	21.00	-2.94	39423.730	4.5	42015.570	3.5
3857.2348	7.00	-.57	107628.283	1.5	110220.107	1.5
3857.2705	29.01	-.91	139142.100	2.0	141733.900	2.0
3857.6277	21.00	-2.65	33154.010	2.5	35745.570	2.5
3857.9150	14.00	-.32	59056.508	1.0	61647.875	2.0
3858.1637	28.01	-4.69	131670.870	2.5	134262.070	3.5
3858.3304	55.00	-1.10	25709.140	0.0	28300.935	0.0
3858.4049	7.00	-4.35	110362.462	3.5	112953.500	4.5
3858.5360	21.00	-1.00	31172.620	1.5	33763.570	1.5
3858.6328	28.00	-3.94	48715.200	4.0	51306.085	3.0
3858.6819	14.00	-.50	59056.508	1.0	61647.360	1.0
3859.0870	18.01	-4.81	212076.900	2.5	214667.480	2.5
3859.3582	26.00	-3.09	44415.057	4.0	47005.455	5.0
3859.3611	14.00	-2.69	61597.404	3.0	64187.800	3.0
3859.5042	26.00	-2.58	48289.852	1.0	50880.152	1.0
3859.8052	7.00	-1.45	107445.622	1.5	110035.720	.5
3860.1002	17.01	-4.10	126032.000	2.0	128621.900	1.0
3860.1599	28.01	-3.38	97799.660	1.5	100389.520	2.5
3860.2195	15.00	-1.09	65787.380	3.5	68377.200	3.5
3860.3641	14.00	-1.89	59636.667	1.0	62226.390	1.0
3860.4654	14.00	-4.83	61598.145	2.0	64187.800	3.0
3861.2035	10.00	-1.79	169976.740	0.0	172565.900	1.0
3861.4332	7.00	-2.40	104664.100	1.5	107253.106	2.5
3861.9553	26.00	-4.20	47834.529	5.0	50423.185	4.0
3862.0537	9.02	-4.19	441276.720	2.5	443865.310	1.5
3862.1179	14.00	-1.27	57328.789	1.0	59917.336	2.0
3862.2627	10.01	-4.72	318834.780	3.5	321423.230	4.5
3862.5910	18.00	-1.56	123935.970	1.0	126524.200	0.0
3863.0088	18.00	-2.43	114975.070	1.0	117563.020	0.0
3863.9644	28.01	-3.49	75149.480	4.5	77736.790	4.5
3863.9793	30.02	-3.34	300221.100	5.0	302808.400	4.0
3864.0391	19.00	-.89	31695.890	2.5	34283.150	1.5
3864.3527	6.00	-4.03	83919.650	3.0	86506.700	2.0
3864.4274	22.00	-2.38	41087.310	3.0	43674.310	4.0
3864.4275	19.00	-1.84	31696.150	1.5	34283.150	1.5
3864.5170	6.00	-4.83	83919.760	2.0	86506.700	2.0
3864.7950	18.00	-3.37	120619.076	2.0	123205.830	3.0
3864.9084	17.00	-4.60	95786.752	2.5	98373.430	2.5
3864.9653	26.01	-4.10	85048.560	1.5	87635.200	.5
3864.9712	18.00	-1.32	122282.134	2.0	124868.770	3.0
3864.9951	19.00	-1.14	31696.150	1.5	34282.770	.5
3865.3239	6.00	-2.49	86327.160	3.0	88913.560	2.0
3865.5959	17.00	-3.10	95786.752	2.5	98372.970	1.5
3865.6976	26.00	-4.50	51827.590	2.0	54413.740	3.0
3865.9368	6.00	-3.26	85203.640	2.0	87789.630	1.0
3865.9815	12.00	-.84	55891.800	1.0	58477.760	2.0
3865.9965	27.00	-4.59	49484.050	3.5	52070.000	2.5
3866.0384	7.00	-.44	104859.700	1.5	107445.622	1.5
3866.1281	14.00	-1.48	60010.458	1.0	62596.320	2.0
3866.1311	9.02	-1.88	466978.150	1.5	469564.010	.5
3866.1460	22.00	-1.96	17540.205	3.0	20126.055	3.0
3866.2806	6.00	.09	78215.510	3.0	80801.270	2.0
3866.4002	20.02	-4.43	383189.820	4.0	385775.500	4.0
3866.5049	18.01	-1.42	192712.000	1.5	195297.610	1.5
3866.6395	23.00	-3.55	20767.570	3.5	23353.090	3.5
3866.9686	20.02	-2.60	383190.200	5.0	385775.500	4.0
3867.0881	12.00	-1.06	55891.800	1.0	58477.020	1.0
3867.1480	28.01	-4.28	131670.870	2.5	134256.050	2.5
3867.3575	27.00	-4.83	48615.560	2.5	51200.600	1.5
3867.5834	12.00	-1.54	55891.800	1.0	58476.689	0.0
3867.8662	18.01	-.91	199959.620	2.5	202544.320	2.5
3867.9111	6.00	.34	78249.940	4.0	80834.610	3.0
3867.9410	6.00	-3.65	86469.510	3.0	89054.160	2.0
3868.5098	28.01	-2.49	134978.470	2.5	137562.740	3.5
3868.6146	30.02	-3.47	300224.200	4.0	302808.400	4.0
3868.6146	30.02	-4.81	300224.200	5.0	302808.400	4.0
3868.7044	6.00	-1.04	85188.950	1.0	87773.090	2.0
3868.7448	7.00	-.08	107628.283	1.5	110212.396	2.5
3869.0637	19.02	-3.68	238455.100	.5	241039.000	1.5
3869.1386	18.02	-3.07	204649.240	2.0	207233.090	2.0
3869.7526	6.00	-.03	78199.070	2.0	80782.510	1.0
3869.7676	9.02	-2.62	466978.150	1.5	469561.580	1.5
3869.8125	7.00	-4.16	112946.600	1.5	115530.000	.5
3869.8125	7.00	-4.50	112946.600	1.5	115530.000	1.5
3869.8575	12.00	-.89	58477.020	1.0	61060.390	2.0
3870.1122	30.02	-3.26	300221.100	6.0	302804.300	5.0
3870.3280	18.00	-4.30	122282.134	2.0	124865.190	2.0
3870.5317	21.00	-.89	31215.760	2.5	33798.680	2.5
3870.5527	18.00	-.75	122282.134	2.0	124865.040	3.0
3870.5617	15.00	-1.66	77843.300	1.5	80426.200	1.5
3870.9663	12.00	-1.36	58477.760	2.0	61060.390	2.0
3871.3186	7.00	-1.39	110286.305	2.5	112868.700	3.5
3871.3621	14.00	-2.47	48020.074	1.0	50602.440	0.0
3871.4609	15.00	-3.92	77843.900	2.5	80426.200	1.5
3871.5509	17.00	-1.10	97667.396	3.5	100249.636	2.5
3871.5779	18.00	-2.20	121794.158	0.0	124376.380	1.0
3871.6424	22.00	-2.15	17423.853	2.0	20006.032	2.0
3871.6709	10.01	-4.10	318841.850	3.5	321424.010	4.5
3871.7309	10.01	-3.98	318841.890	4.5	321424.010	4.5
3871.7909	10.01	-3.96	318841.890	4.5	321423.970	5.5
3871.9108	18.00	-2.18	121191.920	2.0	123773.920	3.0
3872.0158	6.00	-2.56	86331.630	1.0	88913.560	2.0
3872.2407	6.00	-1.52	86185.200	2.0	88766.980	1.0
3872.6607	7.00	-3.89	112953.500	4.5	115535.000	3.5
3872.9158	26.02	-4.93	184417.270	5.0	186998.600	4.0
3873.0208	6.00	-4.64	86498.640	2.0	89079.900	2.0
3874.1014	25.00	-4.88	51638.170	2.5	54218.710	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3874.1224	7.00	-4.95	110299.974	2.5	112880.500	2.5
3874.4002	18.00	-1.42	122479.459	1.0	125059.800	2.0
3874.4602	20.00	-2.18	46182.399	3.0	48762.700	2.0
3874.7621	30.02	-3.37	300224.200	5.0	302804.300	5.0
3874.8071	10.01	-3.16	318828.550	3.5	321408.620	2.5
3874.8071	10.01	-3.09	318828.550	2.5	321408.620	2.5
3874.8237	14.00	-1.86	60645.441	2.0	63225.500	2.0
3875.0776	10.01	-3.35	318828.550	2.5	321408.440	3.5
3875.0776	10.01	-2.31	318828.550	3.5	321408.440	3.5
3875.3028	6.00	-2.87	78731.270	1.0	81311.010	0.0
3875.4951	7.00	-1.71	110247.288	3.5	112826.900	2.5
3875.4951	7.00	-.95	110247.288	3.5	112826.900	3.5
3875.5732	19.00	-1.56	30185.240	2.5	32764.800	2.5
3875.5732	19.00	-.26	30185.240	2.5	32764.800	3.5
3875.8137	9.00	-.94	130016.100	2.5	132595.500	2.5
3876.2495	28.01	-4.80	120211.300	5.5	122790.410	4.5
3876.3246	19.00	-.41	30185.740	1.5	32764.800	2.5
3876.6403	28.01	-4.14	131670.870	2.5	134249.720	1.5
3876.6553	10.01	-1.88	318841.850	3.5	321420.690	2.5
3876.8357	9.02	-1.63	466982.860	2.5	469561.580	1.5
3877.4672	13.01	-.94	142360.800	0.0	144939.100	1.0
3877.7680	18.00	.12	122708.180	2.0	125286.280	1.0
3877.9185	13.01	-1.45	142607.000	2.0	145185.000	1.0
3877.9260	7.00	-3.49	110349.060	2.5	112927.055	1.5
3878.0448	7.00	-.37	110299.974	2.5	112877.890	3.5
3878.8211	7.00	-3.91	112946.600	1.5	115524.000	.5
3879.1373	29.01	-.52	136754.110	2.0	139331.300	3.0
3879.2426	10.01	-4.64	302989.820	1.5	305566.940	1.5
3879.4233	15.00	-3.03	76762.400	.5	79339.400	1.5
3879.8750	10.01	-3.76	318828.550	3.5	321405.250	4.5
3880.0767	18.00	-.41	117183.654	2.0	119760.220	1.0
3880.3116	6.00	-.14	83838.080	2.0	86414.490	3.0
3880.4773	13.01	-2.20	142362.800	2.0	144939.100	1.0
3880.4773	13.01	-2.68	142362.800	1.0	144939.100	1.0
3880.5074	27.00	-2.77	46502.150	.5	49078.430	1.5
3880.6626	8.00	-3.38	102865.559	3.0	105441.736	2.0
3880.6626	8.00	-1.83	102865.559	3.0	105441.736	3.0
3880.6626	8.00	-.77	102865.559	3.0	105441.736	4.0
3880.7198	8.00	-1.24	102865.518	4.0	105441.657	3.0
3880.7198	8.00	-.06	102865.518	4.0	105441.657	4.0
3880.7198	8.00	.80	102865.518	4.0	105441.657	5.0
3880.7515	8.00	-2.04	102865.618	2.0	105441.736	2.0
3880.7515	8.00	-1.14	102865.618	2.0	105441.736	3.0
3880.7816	8.00	-.95	102865.559	3.0	105441.657	2.0
3880.7816	8.00	.07	102865.559	3.0	105441.657	3.0
3880.7816	8.00	.62	102865.559	3.0	105441.657	4.0
3880.8253	8.00	-1.75	102865.667	1.0	105441.736	2.0
3880.8705	8.00	-.95	102865.618	2.0	105441.657	1.0
3880.8705	8.00	.05	102865.618	2.0	105441.657	2.0
3880.8705	8.00	.43	102865.618	2.0	105441.657	3.0
3880.9293	17.01	-2.96	150681.000	2.0	153257.000	2.0
3880.9443	8.00	-.10	102865.667	1.0	105441.657	1.0
3880.9443	8.00	.21	102865.667	1.0	105441.657	2.0
3880.9805	8.00	-.09	102865.691	0.0	105441.657	1.0
3880.9895	23.00	-4.87	36822.860	3.5	39398.820	3.5
3881.3014	26.00	-3.53	48122.913	3.0	50698.666	2.0
3881.6164	17.00	-4.82	97674.092	3.5	100249.636	2.5
3881.6390	26.00	-4.33	48304.623	2.0	50880.152	1.0
3881.7640	17.00	-1.86	91906.790	2.5	94482.236	2.5
3881.9284	14.00	-1.29	54205.090	2.0	56780.427	1.0
3881.9751	17.00	-2.38	97674.330	2.5	100249.636	2.5
3882.0053	18.00	-2.15	122282.134	2.0	124857.420	2.0
3882.2313	18.00	-2.65	122282.134	2.0	124857.270	1.0
3882.3309	28.01	-4.50	120272.530	4.5	122847.600	3.5
3882.3912	23.00	-4.39	34747.060	3.5	37322.090	3.5
3882.9536	7.00	-4.37	110303.233	4.5	112877.890	3.5
3882.9687	7.00	-3.07	110303.233	4.5	112877.880	4.5
3883.4921	15.01	-1.24	127600.000	1.0	130174.300	2.0
3883.6279	14.00	-.26	61447.860	2.0	64022.070	3.0
3883.9900	6.00	-.72	83838.080	2.0	86412.050	2.0
3884.0956	29.01	-2.91	145985.400	2.0	148559.300	2.0
3884.0956	6.00	-.26	83838.080	2.0	86411.980	3.0
3884.2013	18.01	-3.42	199679.760	2.5	202253.590	1.5
3884.3114	12.00	-2.58	58442.843	3.0	61016.600	2.0
3884.3114	12.00	-1.25	58442.843	3.0	61016.600	3.0
3884.3114	12.00	-1.45	58442.843	3.0	61016.600	3.0
3884.3114	12.00	.02	58442.843	3.0	61016.600	4.0
3884.3265	12.00	-1.21	58442.853	2.0	61016.600	2.0
3884.3265	12.00	-.39	58442.853	2.0	61016.600	3.0
3884.3265	12.00	-.98	58442.853	2.0	61016.600	3.0
3884.3582	12.00	-.31	58442.874	1.0	61016.600	2.0
3884.6541	6.00	-.75	85203.640	2.0	87777.170	3.0
3884.7899	14.00	-1.04	61447.860	2.0	64021.300	2.0
3885.0737	14.00	-2.02	51612.012	0.0	54185.264	1.0
3885.5599	18.01	-.14	201345.220	1.5	203918.150	1.5
3886.1641	28.01	-4.03	115870.280	2.5	118442.810	1.5
3886.1716	17.00	-4.97	97674.330	2.5	100246.855	1.5
3886.5115	7.00	-3.85	112957.700	1.5	115530.000	.5
3886.5962	14.00	-3.95	61198.036	0.0	63770.280	1.0
3887.4939	6.00	-4.97	83919.760	2.0	86491.410	1.0
3887.6511	18.00	-1.56	122086.974	2.0	124658.520	2.0
3887.6602	14.00	-3.00	61447.860	2.0	64019.400	3.0
3887.7207	19.00	-1.40	30606.730	2.5	33178.230	1.5
3887.7917	14.00	-4.78	61562.477	3.0	64133.930	4.0
3887.8719	20.00	-1.02	46258.380	1.0	48829.780	1.0
3887.8719	20.00	-.71	46258.380	1.0	48829.780	2.0
3887.8870	19.00	-1.24	30606.730	3.5	33178.120	2.5
3887.8870	19.00	-2.54	30606.730	2.5	33178.120	2.5
3887.9021	6.00	-4.21	86482.780	2.0	89054.160	2.0
3888.0231	21.00	-.73	31275.320	3.5	33846.620	3.5
3888.3256	17.00	-2.74	98418.890	3.5	100989.990	3.5
3888.6432	17.00	-3.99	98419.100	2.5	100989.990	3.5
3888.8141	28.00	-3.65	48735.308	2.0	51306.085	3.0
3889.0365	14.00	-2.34	61617.170	4.0	64187.800	3.0
3889.0969	18.01	-1.49	186470.280	1.5	189040.870	1.5
3889.2331	7.00	-3.81	112953.500	4.5	115524.000	3.5
3889.3542	22.00	-4.87	44079.840	2.0	46650.260	3.0
3889.8747	7.00	-2.63	104683.030	2.5	107253.106	2.5
3889.8989	10.00	-2.23	170689.370	0.0	173259.430	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3890.2925	29.01	-2.65	145945.800	5.0	148515.600	4.0
3890.3152	7.00	-1.41	111501.368	1.5	114071.153	1.5
3890.4894	7.00	-4.34	112965.330	3.5	115535.000	3.5
3890.5196	26.00	-4.97	51304.650	4.0	53874.300	5.0
3890.5605	18.00	-2.40	121257.227	1.0	123826.850	2.0
3890.7316	21.00	-3.77	33707.250	2.5	36276.760	1.5
3890.8225	6.00	-2.47	85203.640	2.0	87773.090	2.0
3890.9284	6.00	-2.08	86956.160	1.0	89525.540	1.0
3891.2617	14.01	-.03	119245.480	.5	121814.640	.5
3891.4888	20.00	-2.20	46260.770	2.0	48829.780	1.0
3891.4888	20.00	-1.19	46260.770	2.0	48829.780	2.0
3891.4888	20.00	-.27	46260.770	2.0	48829.780	3.0
3891.9191	7.00	-.77	110299.974	2.5	112868.700	3.5
3891.9736	25.00	-3.24	59731.940	4.5	62300.630	4.5
3892.6116	22.00	-2.32	17369.590	1.0	19937.859	1.0
3893.1103	7.00	-3.66	112967.060	4.5	115535.000	3.5
3893.1558	21.00	-2.92	39392.950	3.5	41960.860	2.5
3893.2256	26.00	-2.56	47966.571	3.0	50534.435	3.0
3893.3529	20.02	-2.70	383189.820	4.0	385757.600	3.0
3894.0080	7.00	-2.10	104615.440	1.5	107182.788	1.5
3894.2629	27.00	-2.01	45876.580	2.5	48443.760	2.5
3894.7028	28.01	-4.51	120270.440	5.5	122837.330	4.5
3894.8849	10.01	-4.67	318841.850	3.5	321408.620	2.5
3894.8865	14.00	-2.13	47284.061	1.0	49850.830	2.0
3894.9592	18.00	-.28	116999.389	2.0	119566.110	3.0
3895.1429	18.01	-3.42	201351.550	2.5	203918.150	1.5
3895.1581	10.01	-2.48	318841.850	3.5	321408.440	3.5
3895.2188	10.01	-2.12	318841.890	4.5	321408.440	3.5
3895.3098	28.01	-4.55	120281.110	4.5	122847.600	3.5
3895.4905	7.00	-1.67	107628.283	1.5	110194.654	1.5
3895.5983	6.00	-2.15	81311.010	0.0	83877.310	1.0
3895.5983	7.00	-4.06	112957.700	2.5	115524.000	1.5
3895.6893	6.00	-3.58	86956.160	1.0	89522.400	2.0
3896.0460	14.00	.06	59032.140	2.0	61598.145	2.0
3896.0536	15.00	-.19	77734.500	2.5	80300.500	3.5
3896.1752	29.01	-.79	136765.380	4.0	139331.300	3.0
3896.2055	22.00	-3.99	39640.980	3.0	42206.880	2.0
3896.2663	6.00	.25	83848.830	3.0	86414.690	4.0
3896.3361	7.00	-3.84	110401.356	2.5	112967.170	3.5
3896.4226	8.00	-1.75	105912.043	1.0	108477.800	1.0
3896.4226	8.00	-1.28	105912.043	1.0	108477.800	2.0
3896.4226	8.00	-2.93	105912.043	2.0	108477.800	1.0
3896.4226	8.00	-1.75	105912.043	2.0	108477.800	2.0
3896.4226	8.00	-1.01	105912.043	2.0	108477.800	3.0
3896.4226	8.00	-1.63	105912.043	0.0	108477.800	1.0
3896.5244	6.00	-1.26	85169.610	0.0	87735.300	1.0
3896.5700	6.00	-1.07	83848.830	3.0	86414.490	3.0
3896.7371	20.02	-2.49	371061.300	3.0	373626.850	2.0
3896.9649	20.00	-.87	44989.830	2.0	47555.230	3.0
3897.1715	14.00	-.18	59032.140	2.0	61597.404	3.0
3897.8006	10.00	-4.51	171043.690	2.0	173608.540	3.0
3897.9069	6.00	-1.44	85188.950	1.0	87753.730	2.0
3898.0741	9.02	-1.94	464223.930	1.5	466788.600	2.5
3898.1197	23.00	-4.47	41501.410	4.5	44066.050	3.5
3898.9407	10.01	-3.95	318841.850	3.5	321405.950	3.5
3898.9771	18.00	-2.37	122086.974	2.0	124651.050	1.0
3899.0014	10.01	-2.20	318841.890	4.5	321405.950	3.5
3899.0927	13.01	-.32	144780.200	2.0	147344.200	3.0
3899.1323	7.00	-3.13	110401.356	2.5	112965.330	3.5
3899.1536	23.00	-2.74	20789.130	2.5	23353.090	3.5
3899.1688	7.00	-.58	110403.220	3.5	112967.170	3.5
3899.3361	7.00	-4.94	110403.220	3.5	112967.060	4.5
3899.3969	19.02	-3.82	243448.200	1.5	246012.000	1.5
3899.4425	10.00	-4.70	169727.630	1.0	172291.400	1.0
3899.4425	10.00	-4.60	169727.630	1.0	172291.400	2.0
3899.6783	10.00	-.96	166975.341	1.0	169538.956	2.0
3899.9749	25.00	-1.71	59731.940	4.5	62295.360	5.5
3900.0054	10.01	-4.02	318841.850	3.5	321405.250	4.5
3900.0663	10.01	-2.46	318841.890	4.5	321405.250	4.5
3900.2792	6.00	-2.92	83848.830	3.0	86412.050	2.0
3900.3858	6.00	-1.19	83848.830	3.0	86411.980	3.0
3900.8849	10.00	-.06	166967.669	0.0	169530.491	1.0
3901.0402	25.00	-3.84	59731.940	4.5	62294.660	3.5
3901.0737	18.00	-1.46	122790.612	0.0	125353.310	1.0
3901.4132	10.00	-4.78	169705.925	0.0	172268.400	1.0
3901.5578	18.01	-4.61	199981.940	1.5	202544.320	2.5
3901.7756	7.00	-3.30	110395.463	1.5	112957.700	1.5
3901.7756	7.00	-.36	110395.463	1.5	112957.700	2.5
3901.9689	7.00	.09	110403.220	3.5	112965.330	3.5
3902.2295	7.00	-4.10	110349.140	3.5	112911.079	3.5
3902.4137	18.00	-1.81	121270.682	2.0	123832.500	3.0
3902.7915	7.00	-3.91	110349.060	2.5	112910.630	2.5
3903.2030	13.01	-1.23	144781.900	3.0	147343.200	2.0
3903.9575	7.00	-.32	110385.795	.5	112946.600	1.5
3903.9651	29.01	-.41	138981.300	2.0	141542.100	2.0
3904.1175	29.01	-.70	138028.700	1.0	140589.400	0.0
3904.2090	6.00	-1.16	87218.260	2.0	89778.900	3.0
3904.2547	18.00	-4.14	122514.290	1.0	125074.900	2.0
3904.4545	7.00	-2.45	110385.330	2.5	112945.809	2.5
3904.4545	7.00	-1.94	110385.330	3.5	112945.809	2.5
3904.5124	20.00	-.76	44989.830	2.0	47550.271	3.0
3904.5140	23.00	-3.31	34428.760	1.5	36989.200	2.5
3904.5994	20.00	-1.67	44989.830	2.0	47550.214	2.0
3904.9700	18.00	-2.50	122479.459	1.0	125039.600	1.0
3905.1607	7.00	-3.52	110349.060	2.5	112909.076	1.5
3905.1851	28.01	-3.57	113225.060	.5	115785.060	1.5
3905.3529	22.01	-4.60	66767.430	.5	69327.320	1.5
3905.8686	7.00	-.72	104886.070	.5	107445.622	1.5
3906.4516	10.00	-4.44	169727.630	1.0	172286.800	2.0
3907.2150	7.00	-4.64	112965.330	3.5	115524.000	2.5
3907.2150	7.00	-4.08	112965.330	3.5	115524.000	3.5
3907.7648	18.00	-2.01	122514.290	1.0	125072.600	1.0
3907.7755	18.00	-1.67	121257.227	1.0	123815.530	1.0
3908.5760	7.00	-3.19	110322.721	1.5	112880.500	2.5
3909.0177	28.01	.26	134978.470	2.5	137535.960	3.5
3909.0789	28.01	-3.71	134294.990	2.5	136852.440	1.5
3909.8433	6.00	-2.54	86965.450	2.0	89522.400	2.0
3909.8586	7.00	-3.82	112967.060	4.5	115524.000	3.5
3909.9656	22.00	-2.94	41818.700	4.0	44375.570	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3910.0267	7.00	-4.85	112967.170	3.5	115524.000	3.5
3910.0267	7.00	-3.88	112967.170	3.5	115524.000	2.5
3910.1690	7.00	-1.77	104221.600	1.5	106778.337	1.5
3910.3266	18.00	-.61	118512.170	0.0	121068.804	1.0
3910.4305	18.00	-1.01	122086.974	2.0	124643.540	1.0
3910.7701	7.00	-4.07	110401.356	2.5	112957.700	1.5
3910.7701	7.00	-.67	110401.356	2.5	112957.700	2.5
3910.8221	6.00	-4.32	86317.640	2.0	88873.950	2.0
3910.9598	28.01	-4.96	120281.110	4.5	122837.330	4.5
3911.2965	28.01	-4.89	134380.820	3.5	136936.820	3.5
3911.3730	22.00	-4.51	40302.950	3.0	42858.900	3.0
3911.9240	21.00	-.55	31350.810	4.5	33906.400	4.5
3912.5976	10.00	-.21	166975.341	1.0	169530.491	1.0
3912.6037	10.00	.27	166975.341	1.0	169530.487	2.0
3912.9191	6.00	-2.59	87218.260	2.0	89773.200	3.0
3913.0264	23.00	-3.46	34428.760	1.5	36983.630	1.5
3913.4246	6.00	-3.79	87218.260	2.0	89772.870	2.0
3913.6239	7.00	-2.01	110403.220	3.5	112957.700	2.5
3913.7464	12.02	-.93	582134.800	4.0	584689.200	4.0
3913.9456	6.00	-1.60	86956.160	1.0	89510.430	2.0
3914.0528	26.00	-3.89	53353.020	6.0	55907.220	5.0
3914.3716	17.00	-4.25	99668.388	3.5	102222.380	3.5
3914.8314	17.00	-3.85	99668.388	3.5	102222.080	4.5
3914.8468	26.00	-5.00	51825.758	3.0	54379.440	3.0
3914.8498	6.00	-1.76	86965.450	2.0	89519.130	3.0
3915.2485	28.01	-4.26	76402.030	2.5	78955.450	1.5
3915.3711	26.01	-4.52	85048.560	1.5	87601.900	1.5
3915.7392	12.02	-2.47	582134.800	4.0	584687.900	3.0
3915.8711	18.00	-2.62	120619.076	2.0	123172.090	1.0
3916.1212	16.00	-.01	73910.309	1.0	76463.160	2.0
3916.7517	23.00	-4.67	40001.180	3.5	42553.620	4.5
3916.8131	28.01	-.86	136288.600	2.5	138841.000	3.5
3916.8837	14.00	-1.85	61198.036	0.0	63750.390	1.0
3916.9405	18.00	-.21	118459.662	1.0	121011.979	1.0
3917.4424	28.01	-3.50	115827.120	3.5	118379.110	2.5
3917.8108	28.01	.45	119889.470	5.5	122441.220	4.5
3918.1179	6.00	-1.97	81325.760	1.0	83877.310	1.0
3918.1932	55.00	-.23	21765.650	0.0	24317.847	0.0
3918.3130	17.00	-1.95	99681.887	1.5	102233.310	2.5
3918.3898	18.00	-2.55	121257.227	1.0	123808.600	2.0
3918.6401	6.00	-3.79	83947.430	3.0	86498.640	2.0
3918.7522	7.00	-2.61	110395.463	1.5	112946.600	.5
3918.7522	7.00	-2.90	110395.463	1.5	112946.600	1.5
3918.9012	6.00	-3.49	86362.520	1.0	88913.560	2.0
3919.5465	10.00	-4.54	171057.900	1.0	173608.520	2.0
3919.6310	10.00	-1.90	165828.175	2.0	168378.740	2.0
3919.7002	18.01	-.04	199879.320	3.5	202429.840	3.5
3919.8847	8.01	-3.08	258408.600	.5	260959.000	1.5
3920.0691	7.00	-2.02	110403.220	3.5	112953.500	4.5
3920.2997	22.00	-3.43	41194.420	3.0	43744.550	4.0
3920.3611	6.00	-.85	85203.640	2.0	87753.730	2.0
3921.2530	9.02	-2.72	441315.800	.5	443865.310	1.5
3921.7575	16.00	.21	73913.978	2.0	76463.160	2.0
3922.0745	26.00	-4.70	53874.300	5.0	56423.276	4.0
3922.1145	6.00	-1.45	85169.610	0.0	87718.560	1.0
3922.1760	29.01	-3.38	136270.260	4.0	138819.170	3.0
3923.0842	10.00	-4.80	171060.220	2.0	173608.540	3.0
3923.1765	28.01	.33	134978.470	2.5	137526.730	2.5
3923.4229	13.01	-.52	146274.400	2.0	148822.500	3.0
3923.8694	21.00	-1.62	31215.760	2.5	33763.570	1.5
3924.6550	26.00	-4.83	58001.880	6.0	60549.180	5.0
3924.9170	28.01	-4.35	119315.440	2.5	121862.570	3.5
3925.4101	29.01	-2.91	118532.150	2.0	121078.960	3.0
3925.4409	6.00	-1.64	86327.160	3.0	88873.950	2.0
3925.7339	13.01	-.10	146185.000	2.0	148731.600	3.0
3925.7339	13.01	-1.01	146185.000	3.0	148731.600	3.0
3926.1193	6.00	-1.90	85188.950	1.0	87735.300	1.0
3926.1608	14.00	-2.52	48020.074	1.0	50566.397	1.0
3926.6651	17.00	-2.90	97703.640	1.5	100249.636	2.5
3926.9212	23.00	-2.86	34529.810	4.5	37075.640	4.5
3927.1295	17.00	-1.92	97703.941	2.5	100249.636	2.5
3927.4148	18.00	-3.03	122514.290	1.0	125059.800	2.0
3927.5074	6.00	-1.60	86965.450	2.0	89510.900	3.0
3927.8253	7.00	-3.75	110401.356	2.5	112946.600	1.5
3928.1401	28.01	-.60	134978.470	2.5	137523.510	3.5
3928.2328	6.00	-2.45	86965.450	2.0	89510.430	2.0
3928.4365	18.00	-1.70	121270.682	2.0	123815.530	1.0
3928.4488	24.00	-4.00	31352.420	1.0	33897.260	1.0
3928.9398	14.00	-1.83	60381.278	1.0	62925.800	1.0
3929.3444	28.01	-4.28	131750.730	3.5	134294.990	2.5
3929.6070	6.00	-1.62	86416.550	1.0	88960.640	0.0
3929.6224	27.00	-2.56	44201.920	2.5	46746.000	2.5
3929.8077	6.00	-2.32	86369.600	2.0	88913.560	2.0
3930.2728	7.00	-2.73	110402.150	3.5	112945.809	2.5
3930.6467	26.00	-4.81	49227.160	3.0	51770.577	3.0
3930.9589	17.00	-1.49	97703.640	1.5	100246.855	1.5
3931.0610	16.00	.36	73920.011	3.0	76463.160	2.0
3931.2882	10.00	-.12	167000.034	4.0	169543.036	4.0
3931.2990	10.00	-1.66	167000.034	4.0	169543.029	3.0
3931.4242	17.00	-1.30	97703.941	2.5	100246.855	1.5
3931.5047	18.00	-1.29	118469.117	2.0	121011.979	1.0
3931.8881	18.00	-2.33	114641.040	2.0	117183.654	2.0
3931.9562	12.01	-1.26	114332.680	2.5	116875.250	2.5
3931.9562	12.01	.04	114332.680	2.5	116875.250	3.5
3932.0489	12.01	-.12	114332.740	1.5	116875.250	2.5
3932.3428	6.00	-1.59	86331.630	1.0	88873.950	2.0
3932.4990	14.00	-1.20	57468.239	2.0	60010.458	1.0
3932.7605	24.00	-3.71	31355.210	2.0	33897.260	1.0
3932.9833	10.00	-1.72	167001.130	3.0	169543.036	4.0
3932.9941	10.00	-.23	167001.130	3.0	169543.029	3.0
3933.2633	7.00	-2.92	110385.330	2.5	112927.055	1.5
3933.3996	14.00	.29	59056.508	1.0	61598.145	2.0
3933.8607	7.00	-3.74	110404.470	1.5	112945.809	2.5
3933.9381	7.00	-2.74	110404.520	2.5	112945.809	2.5
3934.3314	26.00	-3.89	51350.505	4.0	53891.540	3.0
3934.7417	10.00	-4.89	169727.630	1.0	172268.400	1.0
3934.7572	28.01	-.54	134978.470	2.5	137519.230	2.5
3935.0127	7.00	-3.91	110286.305	2.5	112826.900	2.5
3935.0515	14.01	.28	119274.070	1.5	121814.640	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3935.2018	18.00	-1.42	118651.447	1.0	121191.920	2.0
3935.4465	14.00	-2.66	60815.925	2.0	63356.240	2.0
3935.5472	10.00	-3.83	170557.050	1.0	173097.300	0.0
3936.0507	14.00	-4.20	61647.875	2.0	64187.800	3.0
3936.1980	28.01	-4.60	135956.010	5.5	138495.840	4.5
3936.2042	14.00	-3.14	59034.988	3.0	61574.814	3.0
3936.2414	14.00	-1.15	60381.278	1.0	62921.080	2.0
3936.6785	26.01	-4.36	46967.470	2.5	49506.990	1.5
3936.8785	12.00	-2.08	58023.246	2.0	60562.637	2.0
3936.8785	12.00	-1.63	58023.246	2.0	60562.637	3.0
3936.8785	12.00	-1.30	58023.246	2.0	60562.637	3.0
3937.4072	18.00	-1.23	122329.720	3.0	124868.770	3.0
3937.4072	18.00	-.42	122329.720	3.0	124868.770	4.0
3937.5467	6.00	-2.25	86912.860	1.0	89451.820	1.0
3937.6165	10.00	-1.40	167000.034	4.0	169538.949	3.0
3937.7329	23.00	-4.98	34619.520	2.5	37158.360	1.5
3937.7949	23.00	-3.13	34486.800	2.5	37025.600	3.5
3938.2603	22.00	-2.89	36132.210	4.0	38670.710	4.0
3938.5955	17.00	-1.48	97667.396	3.5	100205.680	2.5
3939.1634	18.00	-2.27	121270.682	2.0	123808.600	2.0
3939.3063	10.00	-1.53	167001.130	3.0	169538.956	2.0
3939.3171	10.00	-2.95	167001.130	3.0	169538.949	3.0
3939.3466	29.01	-2.59	146021.500	3.0	148559.300	2.0
3939.3916	14.00	-2.15	59037.043	4.0	61574.814	3.0
3939.6121	17.00	-3.32	85735.091	1.5	88272.720	.5
3940.2782	29.01	-3.62	145978.400	3.0	148515.600	4.0
3940.3854	7.00	-2.58	104221.600	1.5	106758.731	.5
3940.9103	17.00	-1.10	99681.887	1.5	102218.680	2.5
3941.3765	17.00	-1.97	99681.887	1.5	102218.380	1.5
3941.5210	29.01	-3.39	145985.400	2.0	148521.800	1.0
3941.5210	21.01	-2.49	55715.520	1.0	58251.920	2.0
3941.8536	7.00	-1.49	104716.920	3.5	107253.106	2.5
3941.9872	13.01	-4.34	144964.700	3.0	147500.800	4.0
3941.9872	13.01	-2.78	144964.700	4.0	147500.800	4.0
3941.9872	13.01	-2.92	144964.700	4.0	147500.800	4.0
3941.9872	13.01	-1.25	144964.700	5.0	147500.800	4.0
3942.6868	28.01	-3.64	131750.730	3.5	134286.380	4.5
3942.9201	13.01	-2.91	144964.700	3.0	147500.200	3.0
3942.9201	13.01	-1.69	144964.700	4.0	147500.200	3.0
3942.9201	13.01	-.85	144964.700	4.0	147500.200	3.0
3943.0646	14.00	-.75	54245.020	0.0	56780.427	1.0
3943.1533	6.00	-1.66	83947.430	3.0	86482.780	2.0
3943.2000	18.00	-2.18	122329.720	3.0	124865.040	3.0
3943.2311	15.00	-2.29	75353.400	1.5	77888.700	1.5
3943.3260	26.00	-2.69	48163.427	2.0	50698.666	2.0
3943.3400	6.00	-2.46	83947.430	3.0	86482.660	3.0
3943.3493	17.00	-3.73	94468.857	.5	97004.081	1.5
3943.5422	13.01	-1.49	144964.700	3.0	147499.800	2.0
3943.7911	27.00	-4.69	44555.710	1.5	47090.650	2.5
3943.9731	26.00	-3.69	45220.662	3.0	47755.485	3.0
3944.2547	14.00	-1.20	60010.458	1.0	62545.100	1.0
3944.4135	6.00	-1.98	86912.860	1.0	89447.400	2.0
3944.7248	10.00	.83	167000.034	4.0	169534.374	5.0
3944.7404	10.00	-.81	167000.034	4.0	169534.364	4.0
3944.8991	20.00	-.34	42514.845	0.0	45049.073	1.0
3946.0171	28.01	-4.21	107142.210	1.5	109675.720	.5
3946.2664	8.00	-1.89	102908.386	3.0	105441.736	2.0
3946.2664	8.00	-.34	102908.386	3.0	105441.736	3.0
3946.2664	8.00	.72	102908.386	3.0	105441.736	4.0
3946.3130	6.00	-2.68	81343.990	2.0	83877.310	1.0
3946.3738	8.00	-.34	102908.455	2.0	105441.736	2.0
3946.3738	8.00	.57	102908.455	2.0	105441.736	3.0
3946.3893	8.00	-2.46	102908.386	3.0	105441.657	2.0
3946.3893	8.00	-1.44	102908.386	3.0	105441.657	3.0
3946.3893	8.00	-.88	102908.386	3.0	105441.657	4.0
3946.4454	8.00	.40	102908.501	1.0	105441.736	2.0
3946.4470	10.00	.73	167001.130	3.0	169534.364	4.0
3946.4969	8.00	-2.66	102908.455	2.0	105441.657	1.0
3946.4969	8.00	-1.66	102908.455	2.0	105441.657	2.0
3946.4969	8.00	-1.28	102908.455	2.0	105441.657	3.0
3946.5686	8.00	-1.96	102908.501	1.0	105441.657	2.0
3946.5686	8.00	-2.26	102908.501	1.0	105441.657	1.0
3946.6402	14.01	.04	101023.310	1.5	103556.420	2.5
3946.7118	14.00	-3.51	59917.336	2.0	62450.400	1.0
3947.2323	28.01	-2.92	129396.040	5.5	131928.770	4.5
3947.3056	10.00	-4.23	170532.717	2.0	173065.400	2.0
3948.1209	27.00	-3.84	46186.410	1.5	48718.570	2.5
3948.6667	14.01	-1.11	101024.610	2.5	103556.420	2.5
3948.7977	18.00	-.81	117151.387	1.0	119683.113	2.0
3948.8211	20.00	-.35	42518.708	1.0	45050.419	2.0
3948.8695	14.01	.19	101024.610	2.5	103556.290	3.5
3948.9006	6.00	-3.25	85203.640	2.0	87735.300	1.0
3948.9287	14.00	-.63	56503.346	2.0	59034.988	3.0
3949.0129	17.00	-1.15	97674.092	3.5	100205.680	2.5
3949.3842	17.00	-1.53	97674.330	2.5	100205.680	1.5
3949.3842	17.00	-.18	97674.330	2.5	100205.680	2.5
3949.7025	26.00	-4.36	51739.964	2.0	54271.110	1.0
3949.8992	17.00	-1.39	97666.650	4.5	100197.670	3.5
3950.0552	18.00	-1.59	122329.720	3.0	124860.640	4.0
3950.7811	10.00	-2.78	165828.175	2.0	168358.630	1.0
3950.9216	20.00	-.94	42518.708	1.0	45049.073	1.0
3950.9654	14.00	.46	59032.140	2.0	61562.477	3.0
3951.0638	17.00	-.92	97667.396	3.5	100197.670	3.5
3951.1418	17.00	-1.37	97667.396	3.5	100197.620	2.5
3951.1496	14.00	-3.81	58775.451	2.0	61305.670	1.0
3951.3198	17.00	-4.24	98693.220	2.5	101223.330	2.5
3951.7337	14.00	-.94	59118.030	3.0	61647.875	2.0
3951.8665	28.01	-3.09	115785.060	1.5	118314.820	2.5
3952.1009	6.00	-1.51	85188.950	1.0	87718.560	1.0
3952.1633	27.00	-4.68	50105.050	1.5	52634.620	.5
3952.2101	6.00	-2.45	83919.650	3.0	86449.190	3.0
3952.3821	6.00	-4.77	83919.760	2.0	86449.190	3.0
3953.0009	17.00	-.24	95313.749	1.5	97842.783	1.5
3953.3855	7.00	-2.03	104654.000	.5	107182.788	1.5
3953.3933	26.00	-4.92	45061.287	3.0	47590.070	4.0
3953.6169	19.00	-1.87	31069.900	.5	33598.540	.5
3953.6794	20.02	-3.49	279353.640	1.0	281882.240	2.0
3953.7451	26.00	-3.45	42532.729	3.0	45061.287	3.0
3954.4566	14.00	-.79	56978.256	1.0	59506.359	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3954.7899	28.01	-.08	119913.330	4.5	122441.220	4.5
3954.9307	15.00	-2.07	77655.200	3.5	80183.000	2.5
3955.0872	18.00	-2.64	122329.720	3.0	124857.420	2.0
3955.1794	12.00	-.76	58476.689	0.0	61004.330	1.0
3955.2436	30.02	-1.41	260584.100	1.0	263111.700	0.0
3955.4471	23.00	-3.83	39127.230	1.5	41654.700	2.5
3955.5675	10.00	-.64	167011.563	2.0	169538.956	2.0
3955.5785	10.00	.50	167011.563	2.0	169538.949	3.0
3955.6583	10.00	-1.29	165828.175	2.0	168355.510	1.0
3955.6975	12.00	-.89	58477.020	1.0	61004.330	1.0
3955.6975	12.00	-.59	58477.020	1.0	61004.330	2.0
3956.2141	6.00	-1.70	78307.630	2.0	80834.610	3.0
3956.2986	7.00	-1.83	110299.974	2.5	112826.900	2.5
3956.2986	7.00	-.19	110299.974	2.5	112826.900	3.5
3956.3236	23.00	-2.71	41539.140	4.5	44066.050	3.5
3956.8091	15.00	-3.30	76875.400	1.5	79402.000	2.5
3956.8561	12.00	-2.07	58477.760	2.0	61004.330	1.0
3956.8561	12.00	-1.06	58477.760	2.0	61004.330	2.0
3956.8561	12.00	-.14	58477.760	2.0	61004.330	3.0
3957.1850	27.00	-2.44	43398.620	3.5	45924.980	3.5
3957.4512	26.00	-4.48	54066.570	4.0	56592.760	4.0
3957.8915	26.00	-4.68	34636.820	2.0	37162.729	3.0
3958.0310	28.01	-4.45	106022.790	.5	108548.610	1.5
3958.0889	20.00	.29	42526.591	2.0	45052.374	3.0
3958.1422	7.00	-3.55	110385.330	2.5	112911.079	3.5
3958.1422	7.00	-1.99	110385.330	3.5	112911.079	3.5
3958.3758	17.00	-1.47	98373.430	2.5	100899.030	3.5
3958.7363	22.00	-3.39	39785.940	4.0	42311.310	3.0
3958.8303	18.00	-4.66	122514.290	1.0	125039.600	1.0
3958.8460	7.00	-4.49	110385.330	2.5	112910.630	2.5
3958.8460	7.00	-2.01	110385.330	3.5	112910.630	2.5
3958.8679	7.00	-1.90	111501.368	1.5	114026.654	.5
3959.0655	18.01	-4.81	201608.820	3.5	204133.980	2.5
3959.5202	24.00	-3.53	24277.060	0.0	26801.930	1.0
3959.5907	14.00	-2.75	60962.105	2.0	63486.930	1.0
3959.6692	14.00	-2.22	60815.925	2.0	63340.700	3.0
3959.7084	17.00	-1.04	97666.650	4.5	100191.400	3.5
3959.7084	17.00	-1.76	97666.650	4.5	100191.400	4.5
3960.1946	28.01	-4.95	134208.300	2.5	136732.740	1.5
3960.3672	17.00	.29	97666.650	4.5	100190.980	4.5
3960.3829	17.00	1.05	97666.650	4.5	100190.970	5.5
3960.6026	6.00	-4.02	86389.380	2.0	88913.560	2.0
3960.6653	19.00	-1.57	31074.400	1.5	33598.540	.5
3960.8693	18.01	-1.88	186890.950	2.5	189414.960	3.5
3960.8788	17.00	-.05	97667.396	3.5	100191.400	3.5
3960.8788	17.00	-.15	97667.396	3.5	100191.400	4.5
3961.0419	13.01	-1.49	146276.500	3.0	148800.400	3.0
3961.0419	13.01	-.12	146276.500	3.0	148800.400	4.0
3961.0419	13.01	-2.50	146276.500	3.0	148800.400	4.0
3961.1204	9.00	-1.10	130221.120	1.5	132744.970	1.5
3961.1549	20.00	-.85	42526.591	2.0	45050.419	2.0
3961.2837	7.00	-4.36	110385.330	2.5	112909.076	1.5
3961.3402	22.00	-4.57	38670.710	4.0	41194.420	3.0
3961.4076	7.00	-4.72	110303.233	4.5	112826.900	3.5
3961.4343	16.00	-1.47	79143.350	2.0	81667.000	1.0
3961.5379	17.00	.55	97667.396	3.5	100190.980	4.5
3961.5474	17.00	.15	97674.092	3.5	100197.670	3.5
3961.5913	28.01	-3.80	112686.300	2.5	115209.850	3.5
3961.6023	17.00	-1.63	92140.127	1.5	94663.670	1.5
3961.6384	5.00	-.61	59993.000	2.5	62516.520	2.5
3961.6384	5.00	.69	59993.000	2.5	62516.520	3.5
3961.6384	5.00	.54	59993.000	1.5	62516.520	2.5
3961.6855	27.00	-4.39	44183.340	4.5	46706.830	3.5
3961.8896	21.00	-1.50	31275.320	3.5	33798.680	2.5
3961.9210	17.00	.51	97674.330	2.5	100197.670	3.5
3961.9995	17.00	-2.69	97674.330	2.5	100197.620	2.5
3962.0780	26.01	-4.00	85048.560	1.5	87571.800	2.5
3962.4706	6.00	-2.64	83926.200	3.0	86449.190	3.0
3962.7377	6.00	-2.80	83926.370	4.0	86449.190	3.0
3962.8099	10.00	-.55	167794.968	2.0	170317.742	2.0
3962.9733	10.00	.60	167794.968	2.0	170317.638	3.0
3963.1068	7.00	-4.59	110404.470	1.5	112927.055	1.5
3963.1854	7.00	-2.22	110404.520	2.5	112927.055	1.5
3963.2686	20.00	-1.63	42526.591	2.0	45049.073	1.0
3963.3660	6.00	-1.37	85188.950	1.0	87711.370	0.0
3963.6646	6.00	-1.64	83947.430	3.0	86469.660	4.0
3963.7432	27.00	-4.29	44568.470	2.5	47090.650	2.5
3963.9004	6.00	-2.06	83947.430	3.0	86469.510	3.0
3963.9946	22.00	-3.54	31805.940	2.0	34327.960	1.0
3964.1833	13.01	.47	142607.000	2.0	145128.900	3.0
3964.2698	10.00	-1.87	167795.897	3.0	170317.742	2.0
3964.2698	17.00	-.78	94482.236	2.5	97004.081	1.5
3964.3011	10.00	-.69	167795.897	3.0	170317.722	3.0
3964.3609	10.00	.74	167795.897	3.0	170317.684	4.0
3964.3672	12.00	-1.11	58575.487	3.0	61097.270	2.0
3964.3672	12.00	-2.22	58575.487	3.0	61097.270	3.0
3964.4159	12.00	-2.15	58575.518	2.0	61097.270	2.0
3964.4159	12.00	-1.24	58575.518	2.0	61097.270	1.0
3964.4159	12.00	-2.79	58575.518	3.0	61097.270	2.0
3964.4159	12.00	-3.52	58575.518	2.0	61097.270	3.0
3964.4159	12.00	-2.35	58575.518	3.0	61097.270	3.0
3964.4332	10.00	-.57	167795.897	3.0	170317.638	3.0
3964.5763	16.00	-2.20	79143.350	2.0	81665.000	2.0
3964.5763	16.00	-1.29	79143.350	3.0	81665.000	2.0
3964.7571	17.00	-.35	95897.565	1.5	98419.100	2.5
3965.4411	18.00	-2.95	123773.920	3.0	126295.020	3.0
3965.5198	29.01	-3.38	118163.500	2.0	120684.550	3.0
3965.5953	26.00	-4.35	52857.840	1.0	55378.842	2.0
3965.6300	18.00	-3.36	123773.920	3.0	126294.900	3.0
3965.6300	18.00	-1.73	123773.920	3.0	126294.900	4.0
3965.6772	9.02	-2.46	441406.460	3.5	443927.410	3.5
3965.8187	28.01	-4.81	131750.730	3.5	134271.590	4.5
3965.9163	10.00	-.72	167796.944	2.0	170317.742	2.0
3965.9477	10.00	.61	167796.944	2.0	170317.722	3.0
3966.0799	10.00	-1.87	167796.944	2.0	170317.638	3.0
3966.3694	28.01	-.48	135261.990	4.5	137782.500	4.5
3966.4167	6.00	-4.92	83986.220	3.0	86506.700	2.0
3966.9517	6.00	-2.76	87002.260	3.0	89522.400	2.0
3967.0462	25.00	-2.51	57621.900	1.5	60141.980	.5
3967.1155	14.00	-1.33	60705.464	3.0	63225.500	2.0
3967.8650	14.00	-2.42	61614.370	5.0	64133.930	4.0
3968.2744	22.00	-4.10	41714.350	2.0	44233.650	3.0
3968.3374	6.00	-1.09	85188.950	1.0	87708.210	2.0
3968.4319	9.00	-1.58	130489.930	.5	133009.130	.5
3968.8258	16.00	-2.20	79143.350	3.0	81662.300	3.0
3968.8258	16.00	-3.74	79143.350	2.0	81662.300	3.0
3968.8258	16.00	-1.13	79143.350	4.0	81662.300	3.0
3968.8605	10.00	-1.07	167011.563	2.0	169530.491	1.0
3968.8668	10.00	-.12	167011.563	2.0	169530.487	2.0
3968.9897	37.00	.13	23792.591	0.0	26312.124	0.0
3969.0937	27.00	-2.02	45924.980	3.5	48443.760	2.5
3969.1378	12.00	-.91	58578.518	4.0	61097.270	3.0
3969.2387	7.00	-3.38	104664.100	1.5	107182.788	1.5
3969.3459	6.00	-1.83	86912.860	1.0	89431.480	2.0
3969.8865	26.00	-4.63	52857.840	1.0	55376.117	1.0
3970.2632	7.00	-1.35	110362.462	3.5	112880.500	2.5
3970.6701	19.00	-1.62	31765.370	.5	34283.150	1.5
3971.0139	18.00	-1.51	121794.158	0.0	124311.720	1.0
3971.2694	19.00	-1.92	31765.370	.5	34282.770	.5
3971.4146	17.00	-2.60	97674.092	3.5	100191.400	3.5
3971.4146	17.00	.90	97674.092	3.5	100191.400	4.5
3971.7901	23.00	-3.41	39241.340	2.5	41758.410	3.5
3971.7901	17.00	-1.49	97674.330	2.5	100191.400	3.5
3971.8375	12.00	-3.74	58580.230	1.0	61097.270	2.0
3971.9006	18.01	-.91	187589.230	2.5	190106.230	1.5
3971.9164	21.00	-1.78	33154.010	2.5	35671.000	1.5
3972.0773	17.00	.04	97674.092	3.5	100190.980	4.5
3972.1057	6.00	-2.30	87002.260	3.0	89519.130	3.0
3972.2794	14.00	-3.95	61617.170	4.0	64133.930	4.0
3972.9108	6.00	-.55	78318.250	3.0	80834.610	3.0
3972.9739	25.00	-2.57	59784.310	3.5	62300.630	4.5
3973.4271	26.00	-4.15	43079.013	1.0	45595.046	0.0
3973.7320	18.01	-.71	190196.160	.5	192712.000	1.5
3973.7952	13.01	-.16	140091.200	1.0	142607.000	2.0
3973.8583	6.00	-3.49	86397.800	3.0	88913.560	2.0
3974.1111	17.00	-1.47	98383.430	4.5	100899.030	3.5
3974.1111	17.00	-1.23	98383.430	4.5	100899.030	4.5
3974.1743	27.00	-3.92	46562.870	1.5	49078.430	1.5
3974.3828	7.00	-2.83	110362.462	3.5	112877.890	3.5
3974.3954	23.00	-4.79	36611.810	2.5	39127.230	1.5
3974.3986	7.00	-4.83	110362.462	3.5	112877.880	4.5
3974.4428	24.00	-3.16	24286.540	1.0	26801.930	1.0
3974.4824	7.00	-.68	107588.469	.5	110103.834	1.5
3974.5692	17.00	-.78	98383.720	3.5	100899.030	3.5
3974.5692	17.00	.90	98383.720	3.5	100899.030	4.5
3974.7273	17.00	-1.29	98372.970	1.5	100888.180	2.5
3975.1856	6.00	-1.29	85203.640	2.0	87718.560	1.0
3975.2615	18.00	-1.89	122635.128	2.0	125150.000	3.0
3975.4543	17.00	-.15	98373.430	2.5	100888.180	2.5
3975.4543	17.00	.56	98373.430	2.5	100888.180	3.5
3975.5808	23.00	-4.56	40038.950	4.5	42553.620	4.5
3975.7547	28.01	-.78	135261.990	4.5	137776.550	3.5
3976.2924	25.00	-4.81	46901.130	2.5	49415.350	2.5
3976.2924	26.02	-3.18	202429.040	1.0	204943.260	2.0
3976.6308	22.00	-2.85	17423.853	2.0	19937.859	1.0
3976.9884	24.00	-4.67	31028.330	2.0	33542.110	2.0
3977.2890	10.00	-3.25	169748.150	1.0	172261.740	1.0
3977.5105	27.00	-3.78	45688.150	2.5	48201.600	3.5
3978.4602	18.01	-1.18	209248.550	2.5	211761.400	3.5
3978.5236	27.00	-2.71	42269.320	4.5	44782.130	4.5
3979.2996	6.00	.38	81325.760	1.0	83838.080	2.0
3979.3249	18.00	-3.94	114147.750	1.0	116660.054	1.0
3979.3470	17.00	-2.36	92151.380	.5	94663.670	1.5
3979.3692	20.00	-2.84	46164.644	2.0	48676.920	2.0
3979.3692	20.00	-1.94	46164.644	2.0	48676.920	1.0
3979.3692	20.00	-4.22	46164.644	2.0	48676.920	3.0
3979.5926	20.00	-1.94	46164.785	3.0	48676.920	2.0
3979.5926	20.00	-2.67	46164.785	3.0	48676.920	3.0
3979.8571	10.00	.28	167026.988	1.0	169538.956	2.0
3979.8872	20.00	-1.61	46164.971	4.0	48676.920	3.0
3980.0520	26.00	-4.76	53393.715	4.0	55905.560	4.0
3980.2232	17.00	-2.85	94827.150	2.5	97338.887	2.5
3980.6289	10.00	-.63	163401.301	0.0	165912.782	1.0
3980.8524	28.01	-4.13	131750.730	3.5	134262.070	3.5
3981.7085	17.01	-4.12	126219.000	3.0	128729.800	3.0
3981.8988	29.01	-1.94	133826.200	2.0	136336.880	1.0
3981.9178	7.00	-1.55	110447.032	1.5	112957.700	1.5
3982.2795	23.00	-4.12	39241.340	2.5	41751.780	1.5
3982.4223	25.00	-3.14	59784.310	3.5	62294.660	3.5
3982.4270	18.00	-1.27	114641.040	2.0	117151.387	1.0
3982.4762	17.00	-3.08	97739.320	1.5	100249.636	2.5
3982.5651	28.01	-4.52	133445.750	4.5	135956.010	5.5
3983.0046	10.00	.40	167807.759	1.0	170317.742	2.0
3983.0728	18.01	-2.61	209251.460	3.5	211761.400	3.5
3983.1045	18.01	-1.07	209251.460	3.5	211761.380	4.5
3983.3902	24.00	-3.78	24286.540	1.0	26796.280	2.0
3983.3902	6.00	-1.32	85203.640	2.0	87713.380	3.0
3983.7236	14.00	-.50	61511.770	1.0	64021.300	2.0
3984.2443	14.00	-1.44	60010.458	1.0	62519.660	2.0
3984.2634	28.01	-4.19	129419.580	4.5	131928.770	4.5
3984.3745	6.00	.05	81311.010	0.0	83820.130	1.0
3984.5349	7.00	-1.39	110402.060	4.5	112911.079	3.5
3984.6286	6.00	-2.70	86327.160	3.0	88836.120	3.0
3984.6778	7.00	-3.22	110402.150	3.5	112911.079	3.5
3984.6937	11.00	-.61	34548.731	2.5	37057.650	2.5
3984.6937	11.00	.69	34548.731	2.5	37057.650	3.5
3984.7493	11.00	.54	34548.766	1.5	37057.650	2.5
3984.8033	14.00	-2.65	60621.640	0.0	63130.490	1.0
3984.8351	28.01	-2.52	115870.280	2.5	118379.110	2.5
3985.1369	6.00	-1.67	87002.260	3.0	89510.900	3.0
3985.3911	7.00	-1.92	110402.150	3.5	112910.630	2.5
3985.4387	9.00	-1.39	130489.930	.5	132998.380	1.5
3985.4419	55.00	-.86	25791.780	0.0	28300.912	0.0
3985.4658	7.00	-.90	105119.850	1.5	107628.283	1.5
3985.5182	28.01	-4.03	101144.630	3.5	103653.030	3.5
3985.5976	10.00	-3.30	170557.050	1.0	173065.400	2.0
3985.8837	6.00	-3.12	87002.260	3.0	89510.430	2.0
3986.0378	18.00	-3.12	120753.520	3.0	123261.593	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
3986.4479	17.00	-2.20	97739.040	.5	100246.855	1.5
3986.5035	6.00	-1.84	78293.490	1.0	80801.270	2.0
3986.8930	17.00	-2.22	97739.320	1.5	100246.855	1.5
3986.9169	18.01	-1.38	199959.620	2.5	202467.140	1.5
3987.5370	17.00	.98	98383.430	4.5	100890.560	5.5
3987.6309	17.00	-.86	99711.309	.5	102218.380	1.5
3987.6484	17.00	-1.33	98383.430	4.5	100890.490	4.5
3987.9506	9.02	-3.08	441406.460	3.5	443913.330	4.5
3987.9665	28.01	-3.53	105861.190	2.5	108368.050	2.5
3988.1098	17.00	-.02	98383.720	3.5	100890.490	4.5
3988.4455	7.00	-4.83	110404.520	2.5	112911.079	3.5
3988.5361	18.00	-2.45	121932.908	1.0	124439.410	0.0
3988.8497	20.00	-2.94	42919.053	2.0	45425.358	1.0
3988.9690	23.00	-2.31	34477.400	.5	36983.630	1.5
3989.0486	10.00	-3.48	169748.150	1.0	172254.330	0.0
3989.0804	7.00	-4.12	110404.470	1.5	112910.630	2.5
3989.1600	7.00	-2.93	110404.520	2.5	112910.630	2.5
3989.2237	6.00	-2.14	84013.400	2.0	86519.470	1.0
3989.4816	7.00	-3.16	110385.330	3.5	112891.238	3.5
3989.8127	7.02	-.14	317781.800	2.5	320287.500	3.5
3990.0261	26.00	-2.14	32873.623	4.0	35379.189	5.0
3990.1631	26.00	-4.50	51619.140	3.0	54124.620	4.0
3990.4179	28.01	-4.20	131750.730	3.5	134256.050	2.5
3990.6728	24.00	-2.60	24282.340	4.0	26787.500	3.0
3990.7157	14.00	-4.09	59636.667	1.0	62141.800	1.0
3990.7364	10.00	-2.25	169976.740	0.0	172481.860	1.0
3990.9595	14.00	-2.94	62141.800	1.0	64646.780	2.0
3991.0711	27.00	-4.79	44201.920	2.5	46706.830	3.5
3991.1826	6.00	.64	81343.990	2.0	83848.830	3.0
3991.2288	20.00	-.67	45050.419	2.0	47555.230	3.0
3991.3260	17.00	-1.10	98383.430	4.5	100888.180	3.5
3991.3419	28.01	-2.36	129424.030	5.5	131928.770	4.5
3991.5555	7.00	-3.35	110404.470	1.5	112909.076	1.5
3991.6128	6.00	-3.42	85203.640	2.0	87708.210	2.0
3991.6352	7.00	-1.86	110404.520	2.5	112909.076	1.5
3991.7882	17.00	-3.47	98383.720	3.5	100888.180	3.5
3991.9635	6.00	-1.46	86369.600	2.0	88873.950	2.0
3992.0113	20.00	-1.15	46258.380	1.0	48762.700	1.0
3992.0113	20.00	-.84	46258.380	1.0	48762.700	2.0
3992.2361	7.00	-.07	110322.721	1.5	112826.900	2.5
3992.4418	56.01	-1.05	57390.930	0.0	59895.663	0.0
3992.5375	15.01	-4.49	102799.200	1.0	105303.190	1.0
3992.6012	29.01	-2.91	115639.020	2.0	118142.970	3.0
3992.7017	26.00	-3.75	48475.740	3.0	50979.627	4.0
3992.8404	25.00	-3.61	57485.970	2.5	59989.770	1.5
3992.9679	18.00	-2.07	122609.760	1.0	125113.480	2.0
3992.9999	28.01	-4.41	93390.060	2.5	95893.760	1.5
3993.0094	14.00	-1.67	59917.336	2.0	62421.030	3.0
3993.1594	29.01	-4.62	145978.400	3.0	148482.000	3.0
3993.3140	10.00	-.63	167026.988	1.0	169530.491	1.0
3993.3204	10.00	-.42	167026.988	1.0	169530.487	2.0
3993.5263	14.00	-.69	62421.030	3.0	64924.400	3.0
3993.7368	18.00	-3.60	121270.682	2.0	123773.920	3.0
3994.3464	20.00	-4.98	45052.374	3.0	47555.230	3.0
3994.3671	26.00	-4.97	32133.977	2.0	34636.820	2.0
3994.4549	14.00	-.03	57798.072	2.0	60300.860	2.0
3994.5012	14.00	.43	58801.524	1.0	61304.283	2.0
3994.7549	14.00	-2.58	60042.500	0.0	62545.100	1.0
3994.9146	15.00	-1.08	77833.800	1.5	80336.300	2.5
3995.0742	23.00	-3.45	34486.800	2.5	36989.200	2.5
3995.3776	19.00	-3.41	31069.900	.5	33572.110	1.5
3995.5213	28.01	-3.66	131750.730	3.5	134252.850	3.5
3995.6091	18.00	-1.19	116942.815	3.0	119444.880	2.0
3995.6491	24.00	-3.23	24299.890	2.0	26801.930	1.0
3995.6491	17.00	-.28	97703.640	1.5	100205.680	1.5
3995.8248	20.00	-2.33	46260.770	2.0	48762.700	1.0
3995.8248	20.00	-1.33	46260.770	2.0	48762.700	2.0
3995.8248	20.00	-.41	46260.770	2.0	48762.700	3.0
3996.1298	17.00	-1.06	97703.941	2.5	100205.680	1.5
3996.1298	17.00	-.50	97703.941	2.5	100205.680	2.5
3996.6394	26.00	-4.72	52110.300	1.0	54611.720	2.0
3997.0852	20.00	-.73	45049.073	1.0	47550.214	2.0
3997.4065	23.00	-3.80	36897.880	4.5	39398.820	3.5
3997.4704	13.01	-.54	144781.900	3.0	147282.800	2.0
3997.4704	13.01	-1.45	144781.900	3.0	147282.800	3.0
3997.9788	14.00	-1.72	57541.918	1.0	60042.500	0.0
3998.3338	14.00	-2.32	60704.530	3.0	63204.890	2.0
3998.4186	17.00	-.54	98693.013	3.5	101193.320	3.5
3998.4186	17.00	1.01	98693.013	3.5	101193.320	4.5
3998.6392	14.00	-.31	56690.903	2.0	59191.072	2.0
3998.7496	17.00	.89	98693.220	2.5	101193.320	3.5
3998.8039	22.00	-1.17	33700.874	4.0	36200.940	5.0
3998.9095	13.01	-1.20	144964.700	4.0	147464.700	4.0
3998.9095	13.01	-1.34	144964.700	4.0	147464.700	4.0
3998.9095	13.01	.42	144964.700	4.0	147464.700	5.0
3998.9095	13.01	-3.77	144964.700	4.0	147464.700	5.0
3998.9095	13.01	-2.68	144964.700	4.0	147464.700	5.0
3998.9095	13.01	.42	144964.700	4.0	147464.700	5.0
3998.9095	13.01	-2.96	144964.700	5.0	147464.700	4.0
3998.9095	13.01	-1.22	144964.700	5.0	147464.700	5.0
3998.9095	13.01	-1.32	144964.700	5.0	147464.700	5.0
3998.9095	13.01	.50	144964.700	5.0	147464.700	6.0
3998.9095	13.01	.32	144964.700	3.0	147464.700	4.0
3999.1015	9.02	-1.47	464321.840	2.5	466821.720	3.5
3999.1463	20.00	-.98	45050.419	2.0	47550.271	3.0
3999.2374	20.00	-1.86	45050.419	2.0	47550.214	2.0
3999.2966	7.00	-1.70	104683.030	2.5	107182.788	1.5
3999.3254	28.01	-4.37	134380.820	3.5	136880.560	4.5
3999.5334	14.00	-1.17	60856.630	1.0	63356.240	2.0
3999.6006	7.00	-2.25	110447.032	1.5	112946.600	.5
3999.6006	7.00	-3.48	110447.032	1.5	112946.600	1.5
3999.6182	14.00	-1.76	56690.903	2.0	59190.460	1.0
3999.6614	7.00	-1.75	110404.470	1.5	112904.000	.5
3999.7751	18.00	.05	117183.654	2.0	119683.113	2.0
4000.0775	27.00	-2.39	43425.710	2.5	45924.980	3.5
4000.2856	14.00	-.21	59118.030	3.0	61617.170	4.0
4000.9420	28.01	-1.54	131796.260	2.5	134294.990	2.5
4001.3264	9.02	-1.77	464223.930	1.5	466722.420	2.5
4001.5794	14.00	-2.05	60706.558	1.0	63204.890	2.0
4001.6307	18.00	-1.30	122160.220	3.0	124658.520	2.0
4002.1160	20.00	-.40	45052.374	3.0	47550.371	4.0
4002.2762	20.00	-1.46	45052.374	3.0	47550.271	3.0
4002.3676	20.00	-3.01	45052.374	3.0	47550.214	2.0
4002.5759	19.00	-4.25	31074.400	1.5	33572.110	1.5
4002.6560	19.00	-3.30	31074.400	1.5	33572.060	2.5
4003.2362	26.00	-4.92	45333.834	2.0	47831.132	2.0
4003.2587	26.00	-4.99	49242.680	2.0	51739.964	2.0
4003.6979	6.00	-1.13	86416.550	1.0	88913.560	2.0
4003.8327	7.00	-.21	110470.244	2.5	112967.170	3.5
4003.9866	23.00	-4.12	34486.800	2.5	36983.630	1.5
4004.1951	12.02	-1.51	582074.400	2.0	584571.100	2.0
4004.2753	17.00	-1.27	97674.330	2.5	100170.980	1.5
4004.3554	26.00	-4.51	53229.940	1.0	55726.540	0.0
4004.3554	29.01	-3.61	145985.400	2.0	148482.000	3.0
4004.6923	24.00	-3.13	24299.890	2.0	26796.280	2.0
4005.3000	2.00	-.92	191447.000	0.0	193943.692	0.0
4005.5908	22.00	-3.22	41087.310	3.0	43583.140	3.0
4005.6229	21.00	-1.62	31350.810	4.5	33846.620	3.5
4005.6550	23.00	-4.04	34529.810	4.5	37025.600	3.5
4005.8508	18.00	-3.25	122790.612	0.0	125286.280	1.0
4005.8637	6.00	-2.40	86956.160	1.0	89451.820	1.0
4006.2489	10.00	.54	167047.609	2.0	169543.029	3.0
4006.7853	7.00	.45	110470.244	2.5	112965.330	3.5
4007.4807	22.00	-3.93	38699.767	2.0	41194.420	3.0
4007.6928	20.00	-2.24	46182.399	3.0	48676.920	2.0
4007.9354	6.00	-.12	81325.760	1.0	83820.130	1.0
4007.9403	10.00	.67	167048.669	3.0	169543.036	4.0
4007.9515	10.00	-.77	167048.669	3.0	169543.029	3.0
4008.2407	9.02	-.27	441276.720	2.5	443770.900	3.5
4008.3693	29.01	-3.89	146021.500	3.0	148515.600	4.0
4008.3853	6.00	-.13	81343.990	2.0	83838.080	2.0
4008.5621	17.00	.67	97703.640	1.5	100197.620	2.5
4008.5975	17.00	-1.35	95313.749	1.5	97807.707	2.5
4009.0460	17.00	.09	97703.941	2.5	100197.620	2.5
4009.1087	6.00	-.79	78307.630	2.0	80801.270	2.0
4009.1408	24.00	-4.06	41575.100	3.0	44068.720	3.0
4009.4142	6.00	-1.18	84013.250	3.0	86506.700	2.0
4009.6554	6.00	-2.33	84013.400	2.0	86506.700	2.0
4009.8098	26.00	-4.25	47929.981	4.0	50423.185	4.0
4009.8130	14.00	-3.14	60381.278	1.0	62874.480	2.0
4009.8998	14.00	-.48	56780.427	1.0	59273.575	1.0
4010.4757	28.01	.07	135261.990	4.5	137754.780	5.5
4011.0067	9.02	-2.04	466190.970	3.5	468683.430	2.5
4011.0389	9.02	-1.98	466190.470	4.5	468682.910	3.5
4011.1998	24.00	-2.84	24303.940	3.0	26796.280	2.0
4011.3608	6.00	-4.02	87218.260	2.0	89710.500	3.0
4011.5572	12.00	-1.44	57214.992	1.0	59707.110	0.0
4011.8437	9.02	-3.81	466190.970	3.5	468682.910	3.5
4011.9403	28.01	-.33	135261.990	4.5	137753.870	4.5
4012.1174	20.01	-.82	78034.390	2.5	80526.160	2.5
4012.1174	20.01	.48	78034.390	3.5	80526.160	2.5
4012.3912	29.01	-3.36	146024.000	4.0	148515.600	4.0
4012.7986	10.00	-.17	167047.609	2.0	169538.956	2.0
4012.8099	10.00	-1.31	167047.609	2.0	169538.949	3.0
4012.8904	28.01	-4.54	116824.150	2.5	119315.440	2.5
4012.9710	6.00	-2.00	86956.160	1.0	89447.400	2.0
4013.1562	28.00	-2.03	42790.027	2.0	45281.152	3.0
4013.6444	14.00	-.01	56700.250	1.0	59191.072	2.0
4014.5067	10.00	-1.31	167048.669	3.0	169538.956	2.0
4014.5180	10.00	-.01	167048.669	3.0	169538.949	3.0
4014.6308	14.00	-.24	56700.250	1.0	59190.460	1.0
4014.8082	28.01	-2.79	112719.750	3.5	115209.850	3.5
4015.5338	23.00	-4.88	41428.930	2.5	43918.580	2.5
4015.7758	12.02	-.32	582074.400	2.0	584563.900	3.0
4015.8403	19.00	-.53	28127.850	3.5	30617.310	3.5
4015.8403	19.00	1.02	28127.850	3.5	30617.310	4.5
4015.8403	19.00	.90	28127.850	2.5	30617.310	3.5
4016.1307	28.01	-2.61	118828.610	2.5	121317.890	3.5
4016.1371	14.00	.04	54528.220	2.0	57017.496	2.0
4016.2953	7.00	-3.62	110402.060	4.5	112891.238	3.5
4016.4404	7.00	-2.56	110402.150	3.5	112891.238	3.5
4016.5502	6.00	-1.40	78293.490	1.0	80782.510	1.0
4016.5986	28.01	-1.91	127991.560	3.5	130480.550	3.5
4016.6471	7.00	-4.67	110349.060	2.5	112838.020	1.5
4016.8035	14.00	-.16	57017.496	2.0	59506.359	2.0
4017.1151	17.00	-.73	97712.630	5.5	100201.300	5.5
4017.1151	17.00	1.16	97712.630	5.5	100201.300	6.5
4017.1635	17.00	1.08	97712.660	4.5	100201.300	5.5
4017.1635	14.00	-1.59	61305.670	1.0	63794.310	2.0
4017.2281	13.01	-.71	144780.200	2.0	147268.800	1.0
4017.9821	10.00	-4.28	167052.657	2.0	169540.790	3.0
4018.4391	14.00	-1.82	61305.670	1.0	63793.520	1.0
4018.4876	22.00	-4.33	44162.440	4.0	46650.260	3.0
4018.5086	18.00	-1.54	121165.431	3.0	123653.238	4.0
4018.8268	24.00	-4.34	24299.890	2.0	26787.500	3.0
4019.0207	29.01	-1.95	136754.110	2.0	139241.600	1.0
4019.0708	17.00	.80	97703.941	2.5	100191.400	3.5
4019.0756	7.00	-2.37	110470.244	2.5	112957.700	1.5
4019.0756	7.00	-1.90	110470.244	2.5	112957.700	2.5
4019.5863	20.01	.32	78034.390	2.5	80521.530	1.5
4020.0227	6.00	-1.77	84036.290	1.0	86523.160	0.0
4020.2684	7.00	-4.00	110404.520	2.5	112891.238	3.5
4020.7503	18.00	-4.59	123808.600	2.0	126295.020	3.0
4020.8310	6.00	-1.45	86965.450	2.0	89451.820	1.0
4020.9443	18.00	-.98	123808.600	2.0	126294.900	3.0
4021.2678	29.01	-2.88	146029.500	4.0	148515.600	4.0
4021.2678	28.01	-4.23	115956.710	2.5	118442.810	1.5
4021.3503	7.00	-2.93	110459.760	1.5	112945.809	2.5
4021.7078	12.00	-2.75	57204.163	3.0	59689.991	2.0
4021.8826	16.00	-1.94	79142.080	4.0	81627.800	4.0
4021.8826	16.00	-1.07	79142.080	5.0	81627.800	4.0
4021.8826	16.00	-3.11	79142.080	3.0	81627.800	4.0
4021.8890	12.00	-1.44	57204.275	3.0	59689.991	2.0
4021.8890	12.00	-3.00	57204.275	2.0	59689.991	2.0
4021.9229	10.00	-4.07	167048.669	3.0	169534.364	4.0
4021.9909	17.00	-.55	94663.670	1.5	97149.323	.5
4022.7240	18.01	-3.49	199981.940	1.5	202467.140	1.5
4022.9880	7.00	.29	110395.463	1.5	112880.500	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4023.0316	17.00	-1.41	97712.660	4.5	100197.670	3.5
4023.1789	26.00	-4.17	45551.748	1.0	48036.667	2.0
4023.2049	12.00	-3.52	58575.487	3.0	61060.390	2.0
4023.2097	22.00	-3.69	43583.140	3.0	46068.040	4.0
4023.2097	28.01	-4.06	119315.440	2.5	121800.340	1.5
4023.2551	12.00	-1.13	58575.518	3.0	61060.390	2.0
4023.2551	12.00	-2.47	58575.518	2.0	61060.390	2.0
4023.6907	7.00	-.07	105143.680	2.5	107628.283	1.5
4023.7440	6.00	-2.66	86389.380	2.0	88873.950	2.0
4024.1489	9.02	-1.38	464223.930	1.5	466708.250	1.5
4024.1732	10.00	.61	167052.645	1.0	169536.950	2.0
4024.1814	10.00	-2.35	169976.740	0.0	172461.040	1.0
4024.1927	10.00	-.34	167052.657	2.0	169536.950	2.0
4024.1927	10.00	.80	167052.657	2.0	169536.950	3.0
4024.8456	28.01	-2.92	91800.050	4.5	94283.940	4.5
4025.3804	24.00	-3.33	24303.940	3.0	26787.500	3.0
4025.6560	38.01	-.28	53286.310	0.0	55770.377	0.0
4025.9478	26.00	-4.30	58271.500	5.0	60754.710	4.0
4025.9964	6.00	-2.64	84036.290	1.0	86519.470	1.0
4026.1261	29.01	-3.61	146032.500	5.0	148515.600	4.0
4026.1748	6.00	-1.39	84036.400	2.0	86519.470	1.0
4026.2559	6.00	-.57	78318.250	3.0	80801.270	2.0
4026.3693	6.00	-1.95	86965.450	2.0	89448.400	3.0
4026.4796	10.00	-1.45	167047.609	2.0	169530.491	1.0
4026.4861	10.00	-2.40	167047.609	2.0	169530.487	2.0
4026.6126	9.02	-.60	441385.880	1.5	443868.680	2.5
4027.9105	23.00	-2.82	41436.580	3.5	43918.580	2.5
4027.9608	10.00	-.11	167060.301	4.0	169542.270	4.0
4027.9608	10.00	-1.74	167060.301	4.0	169542.270	5.0
4027.9705	10.00	-1.76	167060.307	5.0	169542.270	4.0
4027.9705	10.00	-.03	167060.307	5.0	169542.270	5.0
4027.9916	6.00	-1.94	86965.450	2.0	89447.400	2.0
4028.2058	10.00	-1.25	167048.669	3.0	169530.487	2.0
4029.0630	12.00	-.91	58477.020	1.0	60958.310	2.0
4029.4000	3.00	.94	36623.000	0.0	39104.759	0.0
4029.4707	7.00	-.17	107445.622	1.5	109926.661	2.5
4029.5989	28.01	-.11	135261.990	4.5	137742.950	5.5
4030.0781	8.00	-1.07	102928.355	4.0	105409.020	3.0
4030.2650	12.00	-1.38	58477.760	2.0	60958.310	2.0
4030.3641	10.00	-1.66	167060.301	4.0	169540.790	3.0
4030.3641	10.00	-3.22	167060.301	4.0	169540.790	4.0
4030.3738	10.00	-1.56	167060.307	5.0	169540.790	4.0
4030.5087	15.00	-.57	75353.400	1.5	77833.800	1.5
4030.5412	23.00	-4.93	34747.060	3.5	37227.440	2.5
4030.8337	29.01	-1.81	115662.770	4.0	118142.970	3.0
4030.8792	17.00	-1.74	97666.650	4.5	100146.822	3.5
4030.8987	12.00	-3.72	58580.230	1.0	61060.390	2.0
4030.9312	17.00	-.87	98418.890	3.5	100899.030	3.5
4030.9312	17.00	-.62	98418.890	3.5	100899.030	4.5
4030.9719	14.00	-1.11	59118.030	3.0	61598.145	2.0
4031.2726	17.00	.20	98419.100	2.5	100899.030	3.5
4031.4839	15.00	-2.90	78069.000	1.5	80548.800	2.5
4031.5424	14.00	-3.14	48020.074	1.0	50499.838	2.0
4031.5652	25.00	-2.15	57621.900	1.5	60101.650	2.5
4032.0855	9.02	-2.72	441385.880	1.5	443865.310	1.5
4032.0921	17.00	-2.19	97667.396	3.5	100146.822	3.5
4032.1766	14.00	.36	59118.030	3.0	61597.404	3.0
4032.2319	28.01	.23	127991.560	3.5	130470.900	4.5
4032.4433	26.00	-4.25	54379.440	3.0	56858.650	2.0
4032.5506	7.00	-.02	110401.356	2.5	112880.500	2.5
4033.1591	17.00	-2.92	97712.630	5.5	100191.400	4.5
4033.2080	17.00	-.07	97712.660	4.5	100191.400	4.5
4033.2730	29.01	-2.53	135135.600	1.0	137614.300	0.0
4033.2893	25.00	-1.92	57305.620	3.5	59784.310	3.5
4033.3869	22.00	-2.90	36065.750	3.0	38544.380	3.0
4033.8393	18.00	-2.84	122635.128	2.0	125113.480	2.0
4033.8426	17.00	-1.19	97712.630	5.5	100190.980	4.5
4033.8589	17.00	.08	97712.630	5.5	100190.970	5.5
4033.8914	17.00	-.83	97712.660	4.5	100190.980	4.5
4033.9077	17.00	-1.74	97712.660	4.5	100190.970	5.5
4034.0835	22.00	-3.62	37824.748	4.0	40302.950	3.0
4034.1681	6.00	-2.99	83919.650	3.0	86397.800	3.0
4034.2658	26.02	-3.00	202429.040	1.0	204907.130	1.0
4034.3473	6.00	-3.87	83919.760	2.0	86397.800	3.0
4034.3960	6.00	-1.46	84013.400	2.0	86491.410	1.0
4034.3961	22.00	-4.09	40556.070	1.0	43034.080	1.0
4034.4139	10.00	1.05	167060.301	4.0	169538.300	5.0
4034.4237	10.00	-.68	167060.307	5.0	169538.300	5.0
4034.4237	10.00	1.13	167060.307	5.0	169538.300	6.0
4034.4775	27.00	-3.47	43398.620	3.5	45876.580	2.5
4034.5263	23.00	-4.94	36763.410	2.5	39241.340	2.5
4035.5849	7.00	-1.36	110403.220	3.5	112880.500	2.5
4035.6175	26.01	-2.58	84863.140	5.5	87340.400	5.5
4035.8130	18.01	-3.41	209248.550	2.5	211725.690	3.5
4035.9596	18.01	-2.11	209248.550	2.5	211725.600	2.5
4036.5000	2.00	1.13	191445.000	0.0	193922.394	0.0
4036.5951	6.00	-2.85	86317.640	2.0	88794.300	2.0
4036.8006	7.00	-2.15	110401.356	2.5	112877.890	3.5
4036.9212	20.01	-1.25	88884.540	4.5	91361.000	4.5
4036.9212	20.01	.48	88884.540	4.5	91361.000	5.5
4036.9212	20.01	.39	88884.540	3.5	91361.000	4.5
4036.9375	29.01	-1.07	136919.350	3.0	139395.800	4.0
4037.0907	7.00	-4.00	110470.244	2.5	112946.600	1.5
4037.1168	9.02	-2.43	441276.720	2.5	443753.060	2.5
4037.3777	22.00	-3.15	41757.470	3.0	44233.650	3.0
4037.4266	6.00	-1.35	86397.800	3.0	88873.950	2.0
4037.4429	6.00	-1.32	81343.990	2.0	83820.130	1.0
4037.6419	7.00	-3.23	110385.330	3.5	112861.348	4.5
4037.8913	17.00	-1.95	95897.565	1.5	98373.430	2.5
4038.0463	24.00	-3.70	41575.100	3.0	44050.870	4.0
4038.1278	14.00	-2.95	60621.640	0.0	63097.360	1.0
4038.4035	7.00	.03	107628.283	1.5	110103.834	1.5
4038.6417	17.00	-.94	95897.565	1.5	98372.970	1.5
4038.6515	7.00	-2.61	110349.060	2.5	112824.459	2.5
4038.7804	6.00	-3.63	86956.160	1.0	89431.480	2.0
4038.7820	7.00	-1.31	110349.140	3.5	112824.459	2.5
4039.3042	12.00	-2.23	57714.992	1.0	59689.991	2.0
4039.4005	14.00	-4.32	62141.800	1.0	64616.740	2.0
4039.4984	6.00	-1.22	78307.630	2.0	80782.510	1.0
4039.6000	2.00	.65	191447.000	0.0	193922.493	0.0
4039.8412	7.00	-3.58	110403.220	3.5	112877.890	3.5
4039.8576	7.00	-2.38	110403.220	3.5	112877.880	4.5
4040.4780	18.01	-1.24	192556.840	2.5	195031.120	2.5
4040.5596	18.01	-1.99	209251.460	3.5	211725.690	3.5
4040.5629	10.00	-2.99	167052.657	2.0	169526.885	3.0
4040.7066	18.01	-3.42	209251.460	3.5	211725.600	2.5
4040.8079	26.00	-3.87	42859.756	2.0	45333.834	2.0
4040.8209	28.01	-4.46	53601.190	1.5	56075.260	2.5
4040.9516	12.01	-1.24	114403.550	3.5	116877.540	3.5
4040.9516	12.01	.30	114403.550	3.5	116877.540	4.5
4040.9516	12.01	.19	114403.550	2.5	116877.540	3.5
4041.4122	26.00	-4.05	45562.959	3.0	48036.667	2.0
4041.4743	10.00	-.49	167846.430	3.0	170320.100	3.0
4041.4743	10.00	-2.25	167846.430	3.0	170320.100	4.0
4041.4743	10.00	.96	167846.430	3.0	170320.100	4.0
4041.4760	26.00	-3.36	45281.816	2.0	47755.485	3.0
4041.4972	10.00	-2.03	167846.444	4.0	170320.100	3.0
4041.4972	10.00	-.58	167846.444	4.0	170320.100	4.0
4041.4972	10.00	-.49	167846.444	4.0	170320.100	4.0
4041.4972	10.00	1.06	167846.444	4.0	170320.100	5.0
4041.5511	10.00	-3.19	167052.645	1.0	169526.268	2.0
4041.5707	10.00	-4.17	167052.657	2.0	169526.268	2.0
4041.8011	28.01	-2.05	103025.580	2.5	105499.050	3.5
4041.8779	10.00	-.57	167846.677	3.0	170320.100	3.0
4041.8779	10.00	.96	167846.677	3.0	170320.100	4.0
4041.8779	10.00	-3.31	167846.677	3.0	170320.100	4.0
4041.8975	10.00	.83	167846.689	2.0	170320.100	3.0
4042.2260	6.00	-1.81	86317.640	2.0	88790.850	1.0
4042.2325	10.00	-4.90	167069.064	3.0	169542.270	4.0
4043.0107	17.00	-3.55	97674.092	3.5	100146.822	3.5
4043.1905	27.00	-4.20	52796.130	2.5	55268.750	3.5
4043.2527	26.00	-4.95	48231.330	5.0	50703.912	5.0
4043.2559	11.00	-.52	34586.960	3.5	37059.540	3.5
4043.2559	11.00	1.02	34586.960	3.5	37059.540	4.5
4043.2559	11.00	.91	34586.960	2.5	37059.540	3.5
4043.3999	17.00	-3.67	97674.330	2.5	100146.822	3.5
4043.4031	26.00	-4.44	54386.160	1.0	56858.650	2.0
4044.0410	29.01	-2.48	145889.600	0.0	148361.700	1.0
4044.0574	22.00	-2.82	41903.480	5.0	44375.570	5.0
4044.6530	10.00	-.52	167069.064	3.0	169540.790	3.0
4044.6530	10.00	.91	167069.064	3.0	169540.790	4.0
4044.6742	10.00	.78	167069.077	2.0	169540.790	3.0
4044.8591	6.00	-2.46	83926.200	3.0	86397.800	3.0
4044.8591	17.00	.40	98418.890	3.5	100890.490	4.5
4045.1373	6.00	-1.35	83926.370	4.0	86397.800	3.0
4045.6416	20.00	-1.37	42518.708	1.0	44989.830	2.0
4046.8076	6.00	-2.88	84036.290	1.0	86506.700	2.0
4046.9877	6.00	-1.92	84036.400	2.0	86506.700	2.0
4047.1188	18.01	-.80	199959.620	2.5	202429.840	3.5
4047.1794	26.00	-4.21	52213.207	3.0	54683.390	4.0
4047.2172	12.01	-1.26	114407.880	4.5	116878.040	4.5
4047.2172	12.01	.47	114407.880	4.5	116878.040	5.5
4047.2172	12.01	.39	114407.880	3.5	116878.040	4.5
4047.5776	28.01	.52	133922.910	4.5	136392.850	3.5
4047.8562	22.00	-1.36	36200.940	5.0	38670.710	4.0
4047.9218	6.00	-1.71	83919.650	3.0	86389.380	2.0
4048.1021	6.00	-2.20	83919.760	2.0	86389.380	2.0
4048.3315	17.00	-2.57	92194.190	1.5	94663.670	1.5
4048.5447	18.01	-4.88	199679.760	2.5	202149.110	2.5
4048.6431	17.00	-1.25	98418.890	3.5	100888.180	2.5
4048.6431	17.00	.08	98418.890	3.5	100888.180	3.5
4048.7414	6.00	-2.38	86491.410	1.0	88960.640	0.0
4048.7529	22.00	-4.58	39715.437	3.0	42184.660	4.0
4048.9874	17.00	-2.92	98419.100	2.5	100888.180	2.5
4048.9874	17.00	-1.73	98419.100	2.5	100888.180	3.5
4049.2662	6.00	-3.43	86321.940	0.0	88790.850	1.0
4049.4466	12.01	-2.92	114408.740	4.5	116877.540	4.5
4049.4466	12.01	-1.19	114408.740	5.5	116877.540	4.5
4049.4466	12.01	-1.28	114408.740	4.5	116877.540	3.5
4049.7436	7.00	-.36	105119.850	1.5	107588.469	.5
4049.8731	14.00	-1.04	57541.918	1.0	60010.458	1.0
4050.1028	29.01	-.35	136773.200	1.0	139241.600	1.0
4050.4803	18.00	-3.76	123826.850	2.0	126295.020	3.0
4050.6772	18.00	-1.96	123826.850	2.0	126294.900	3.0
4050.9069	14.00	-1.29	61305.670	1.0	63773.580	2.0
4050.9365	22.00	-3.74	36200.940	5.0	38668.832	6.0
4050.9463	10.00	-1.32	167069.064	3.0	169536.950	2.0
4050.9463	10.00	-.02	167069.064	3.0	169536.950	3.0
4050.9677	10.00	-.18	167069.077	2.0	169536.950	2.0
4050.9677	10.00	-1.29	167069.077	2.0	169536.950	3.0
4051.7377	17.00	-2.79	99765.906	2.5	102233.310	2.5
4051.7935	12.01	-2.51	114407.880	3.5	116875.250	3.5
4051.7935	12.01	-.97	114407.880	4.5	116875.250	3.5
4051.7935	12.01	-1.08	114407.880	3.5	116875.250	2.5
4051.8428	17.00	-3.85	97703.640	1.5	100170.980	1.5
4051.9167	7.00	-3.82	110459.760	.5	112927.055	1.5
4051.9167	7.00	-2.54	110459.760	1.5	112927.055	1.5
4051.9742	6.00	-.92	83947.430	3.0	86414.690	4.0
4052.0563	18.00	-2.97	120753.520	3.0	123220.730	2.0
4052.1713	6.00	-1.61	86327.160	3.0	88794.300	2.0
4052.3027	6.00	-.97	83947.430	3.0	86414.490	3.0
4052.3372	17.00	-3.03	97703.941	2.5	100170.980	1.5
4052.5162	21.00	-1.61	33278.640	3.5	35745.570	2.5
4052.7955	9.02	-1.23	464321.840	2.5	466788.600	2.5
4052.8776	9.02	-2.73	441158.600	1.5	443625.310	2.5
4052.9105	23.00	-4.54	41599.360	4.5	44066.050	3.5
4052.9762	6.00	-1.07	86369.470	4.0	88836.120	3.0
4052.9927	17.00	.41	97739.040	.5	100205.680	1.5
4053.0436	14.00	-.35	54313.818	1.0	56780.427	1.0
4053.0847	10.00	-4.57	167060.301	4.0	169526.885	3.0
4053.1898	6.00	-1.43	86369.600	2.0	88836.120	3.0
4053.2391	6.00	-1.46	84032.150	1.0	86498.640	2.0
4053.3871	6.00	-.61	84032.150	1.0	86498.550	1.0
4053.4528	17.00	-.11	97739.320	1.5	100205.680	1.5
4053.4528	17.00	.64	97739.320	1.5	100205.680	2.5
4053.6000	2.00	-1.19	191452.000	0.0	193918.943	0.0
4053.7651	13.02	.51	202921.600	.5	205387.770	1.5
4053.8637	15.01	-3.45	101636.490	1.0	104102.600	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4053.9952	6.00	-2.37	86965.450	2.0	89431.480	2.0
4054.0495	14.00	-3.02	61304.283	2.0	63770.280	1.0
4054.1136	10.00	-1.88	165912.782	1.0	168378.740	2.0
4054.3290	22.00	-2.88	17540.205	3.0	20006.032	2.0
4054.3569	28.01	-3.09	131796.260	2.5	134262.070	3.5
4054.3734	7.00	-3.30	110404.470	1.5	112870.270	.5
4054.5937	18.00	-1.48	121470.304	0.0	123935.970	1.0
4054.8996	7.00	-3.94	110403.220	3.5	112868.700	3.5
4055.0000	2.00	-.71	191452.000	0.0	193918.091	0.0
4055.2154	10.00	.92	167076.982	3.0	169542.270	4.0
4055.2286	6.00	-.25	81325.760	1.0	83791.040	2.0
4055.2302	10.00	-.62	167076.991	4.0	169542.270	4.0
4055.2302	10.00	1.02	167076.991	4.0	169542.270	5.0
4055.3420	18.00	-2.73	122601.290	1.0	125066.501	2.0
4055.9031	26.00	-4.70	48516.150	1.0	50981.020	0.0
4055.9278	14.00	-2.11	59109.959	3.0	61574.814	3.0
4056.2000	3.00	-.89	36630.000	0.0	39095.362	0.0
4056.3145	6.00	-2.60	83947.430	3.0	86412.050	2.0
4056.4297	6.00	-.38	83947.430	3.0	86411.980	3.0
4056.6141	7.00	-4.44	110362.462	3.5	112826.900	2.5
4056.6141	7.00	-3.19	110362.462	3.5	112826.900	3.5
4056.6766	15.00	-1.50	77843.900	2.5	80308.300	2.5
4056.7260	6.00	-1.07	86449.190	3.0	88913.560	2.0
4056.7672	10.00	-2.41	167052.645	1.0	169516.990	1.0
4056.7868	10.00	-2.13	167052.657	2.0	169516.990	1.0
4057.0223	28.01	-3.91	116167.760	1.5	118631.950	.5
4057.2133	14.00	-2.13	48102.323	2.0	50566.397	1.0
4057.3352	15.00	-1.52	76875.400	1.5	79339.400	1.5
4057.4636	14.00	-3.32	59110.892	2.0	61574.814	3.0
4057.6480	27.00	-3.30	43911.360	1.5	46375.170	1.5
4057.6513	10.00	-.02	167076.982	3.0	169540.790	3.0
4057.6513	10.00	-1.44	167076.982	3.0	169540.790	4.0
4057.6662	10.00	-1.45	167076.991	4.0	169540.790	3.0
4057.6662	10.00	.09	167076.991	4.0	169540.790	4.0
4057.9939	15.02	-.91	200442.800	2.5	202906.400	2.5
4057.9939	15.02	.40	200442.800	2.5	202906.400	3.5
4057.9939	15.02	.24	200442.800	1.5	202906.400	2.5
4057.9939	18.00	-3.47	122686.400	2.0	125150.000	3.0
4058.2279	7.00	-4.34	110349.060	2.5	112812.518	2.5
4058.3596	7.00	-3.35	110349.140	3.5	112812.518	2.5
4058.4882	17.00	-.68	94482.236	2.5	96945.536	2.5
4058.5887	20.00	-.69	42526.591	2.0	44989.830	2.0
4058.6694	29.01	-.68	136754.110	2.0	139217.300	2.0
4058.6858	6.00	-1.87	83926.200	3.0	86389.380	2.0
4059.0319	28.01	-2.36	133929.880	3.5	136392.850	3.5
4059.0319	6.00	-2.85	83986.220	3.0	86449.190	3.0
4059.4110	6.00	-1.39	83986.450	4.0	86449.190	3.0
4059.5264	6.00	-3.52	86331.630	1.0	88794.300	2.0
4059.7242	27.00	-2.28	46375.170	1.5	48837.720	.5
4059.9220	26.01	-4.38	85172.770	.5	87635.200	.5
4059.9715	18.00	-3.10	123832.500	3.0	126294.900	3.0
4059.9715	18.00	-2.89	123832.500	3.0	126294.900	4.0
4060.1529	28.01	-2.58	135100.450	3.5	137562.740	3.5
4060.2683	9.02	-1.95	441406.460	3.5	443868.680	2.5
4060.3013	15.00	-1.32	75484.400	2.5	77946.600	2.5
4060.6476	14.00	-1.12	61841.940	2.0	64303.930	3.0
4061.0105	14.00	-2.62	62421.030	3.0	64882.800	2.0
4061.0930	23.00	-3.12	39398.820	3.5	41860.540	4.5
4061.7464	17.00	-4.13	94468.857	.5	96930.181	.5
4061.8157	7.00	-2.09	104984.340	.5	107445.622	1.5
4062.2811	28.01	-3.18	119100.060	1.5	121561.060	.5
4062.2811	13.01	-2.79	144990.000	4.0	147451.000	4.0
4062.2811	13.01	-2.93	144990.000	4.0	147451.000	4.0
4062.2811	13.01	-1.16	144990.000	5.0	147451.000	4.0
4062.2811	13.01	-4.26	144990.000	5.0	147451.000	4.0
4062.2811	13.01	-1.16	144990.000	5.0	147451.000	4.0
4062.2811	13.01	-4.54	144990.000	4.0	147451.000	5.0
4062.2811	13.01	-2.80	144990.000	5.0	147451.000	5.0
4062.2811	13.01	-2.91	144990.000	5.0	147451.000	5.0
4062.2811	13.01	-1.08	144990.000	6.0	147451.000	5.0
4062.2811	13.01	-1.26	144990.000	4.0	147451.000	3.0
4062.2976	6.00	-2.36	78340.280	1.0	80801.270	2.0
4062.3471	10.00	-2.42	169748.150	1.0	172209.110	1.0
4062.6938	10.00	-3.34	171148.780	0.0	173609.530	1.0
4062.9415	29.01	-2.20	145901.100	1.0	148361.700	1.0
4063.1066	29.01	-2.81	146021.500	3.0	148482.000	3.0
4063.7177	6.00	-4.14	86185.200	2.0	88645.330	1.0
4063.7177	6.00	-2.19	86185.200	2.0	88645.330	2.0
4063.9853	10.00	-1.58	167076.982	3.0	169536.950	2.0
4063.9853	10.00	-2.85	167076.982	3.0	169536.950	3.0
4064.0002	10.00	-1.45	167076.991	4.0	169536.950	3.0
4064.1323	7.00	-3.66	110485.930	1.5	112945.809	2.5
4064.2645	7.00	-3.04	110486.010	2.5	112945.809	2.5
4064.2794	28.01	-3.26	131796.260	2.5	134256.050	2.5
4064.4991	12.00	-2.58	58442.843	3.0	60902.500	2.0
4064.4991	12.00	-1.25	58442.843	3.0	60902.500	3.0
4064.4991	12.00	-1.45	58442.843	3.0	60902.500	3.0
4064.4991	12.00	.03	58442.843	3.0	60902.500	4.0
4064.5157	12.00	-1.21	58442.853	2.0	60902.500	2.0
4064.5157	12.00	-.40	58442.853	2.0	60902.500	3.0
4064.5157	12.00	-.95	58442.853	2.0	60902.500	3.0
4064.5504	12.00	-.31	58442.874	1.0	60902.500	2.0
4065.1090	7.00	-2.06	110402.060	4.5	112861.348	4.5
4065.2214	6.00	-2.93	86331.630	1.0	88790.850	1.0
4065.2578	7.00	-4.07	110402.150	3.5	112861.348	4.5
4065.3867	15.00	-2.54	65787.380	3.5	68246.500	2.5
4065.6843	6.00	-2.68	79310.850	2.0	81769.790	2.0
4066.1970	10.00	-1.04	169748.150	1.0	172206.780	2.0
4066.3293	27.00	-4.13	46260.020	1.5	48718.570	2.5
4066.3789	22.00	-2.30	41917.050	4.0	44375.570	5.0
4066.5278	28.01	-1.89	131796.260	2.5	134254.690	1.5
4066.7428	17.00	-1.06	97739.320	1.5	100197.620	2.5
4067.2391	29.01	-3.06	146024.000	4.0	148482.000	3.0
4067.4542	6.00	-2.09	78104.980	0.0	80562.850	1.0
4067.5353	10.00	-1.75	167069.064	3.0	169526.885	3.0
4067.5569	10.00	-3.07	167069.077	2.0	169526.885	3.0
4067.5867	27.00	-2.22	45876.580	2.5	48334.370	1.5
4067.6396	14.00	-1.11	54871.031	1.0	57328.789	1.0
4067.9011	15.00	.26	75675.900	1.5	78133.500	2.5
4067.9508	28.01	-4.23	131750.730	3.5	134208.300	2.5
4068.2322	6.00	-3.18	86416.550	1.0	88873.950	2.0
4068.5567	10.00	-3.08	167069.064	3.0	169526.268	2.0
4068.5633	15.00	-.90	76762.400	.5	79219.600	.5
4068.5633	13.01	-.67	146274.400	2.0	148731.600	3.0
4068.5782	10.00	-1.91	167069.077	2.0	169526.268	2.0
4068.7621	14.00	-.15	56733.380	0.0	59190.460	1.0
4068.8383	8.00	-2.87	102928.355	4.0	105385.389	3.0
4068.8763	8.00	-3.52	102928.355	4.0	105385.366	4.0
4069.1032	26.00	-4.87	49297.660	1.0	51754.534	1.0
4069.1280	14.00	-2.70	61303.381	3.0	63760.240	3.0
4069.3234	18.00	-3.46	122609.760	1.0	125066.501	2.0
4069.3914	15.00	-3.86	75675.900	1.5	78132.600	.5
4069.5338	26.00	-1.98	47966.571	3.0	50423.185	4.0
4069.5736	28.01	-1.63	131796.260	2.5	134252.850	3.5
4069.7658	17.00	-2.62	99765.906	2.5	102222.380	3.5
4070.2198	15.00	-1.31	77843.300	1.5	80299.500	1.5
4070.3026	24.00	-3.94	46368.350	3.0	48824.500	4.0
4070.5512	8.03	-2.86	594019.000	2.5	596475.000	3.5
4070.6225	14.00	-4.51	61304.283	2.0	63760.240	3.0
4070.6888	10.00	-2.82	167052.645	1.0	169508.562	2.0
4070.7087	10.00	-1.87	167052.657	2.0	169508.562	2.0
4071.2143	15.00	-2.46	77843.900	2.5	80299.500	1.5
4071.4961	14.00	-1.26	61841.940	2.0	64297.370	3.0
4071.5111	26.00	-4.85	47005.455	5.0	49460.876	5.0
4071.8941	14.00	-2.43	61305.050	3.0	63760.240	3.0
4072.0103	6.00	-1.88	84036.290	1.0	86491.410	1.0
4072.1927	6.00	-2.58	84036.400	2.0	86491.410	1.0
4073.0388	28.01	-4.98	129474.270	3.5	131928.770	4.5
4073.3707	18.00	-2.79	122695.700	4.0	125150.000	3.0
4073.6364	13.02	.21	202921.600	.5	205375.740	.5
4074.1177	9.00	-1.03	130141.650	1.5	132595.500	2.5
4074.3170	10.00	-1.06	169748.150	1.0	172201.880	1.0
4074.3668	27.00	-2.40	46375.170	1.5	48828.870	2.5
4074.6541	14.00	-.84	61306.713	4.0	63760.240	3.0
4074.7654	28.01	-3.76	131796.260	2.5	134249.720	1.5
4074.7670	17.00	-2.60	85735.091	1.5	88188.550	1.5
4075.0643	27.00	-2.85	43921.890	2.5	46375.170	1.5
4075.3634	6.00	-2.43	86185.200	2.0	88638.300	2.0
4075.3634	6.00	-1.71	86185.200	2.0	88638.300	3.0
4075.5743	5.00	-2.35	60031.027	2.5	62484.000	2.5
4075.5743	5.00	-1.05	60031.027	3.5	62484.000	2.5
4075.5743	5.00	-1.20	60031.027	2.5	62484.000	1.5
4075.9050	17.00	-4.28	99765.906	2.5	102218.680	2.5
4075.9615	19.00	-1.83	31695.890	2.5	34148.630	1.5
4076.0446	7.00	-2.25	110385.330	2.5	112838.020	1.5
4076.0778	26.02	-4.96	199577.710	2.0	202030.380	3.0
4076.3604	29.01	-3.99	146029.500	4.0	148482.000	3.0
4076.3936	19.00	-2.78	31696.150	1.5	34148.630	1.5
4076.4036	17.00	-4.56	99765.906	2.5	102218.380	1.5
4076.6762	18.00	-3.03	120753.520	3.0	123205.830	3.0
4076.8541	16.00	.22	74267.597	2.0	76719.800	1.0
4076.8591	10.00	-1.44	169748.150	1.0	172200.350	0.0
4077.0586	22.00	-1.31	33680.130	3.0	36132.210	4.0
4077.1916	19.00	-2.09	31696.150	1.5	34148.150	.5
4077.2082	23.00	-2.15	34537.210	1.5	36989.200	2.5
4077.2299	17.00	-.79	94732.300	3.5	97184.277	3.5
4077.2399	7.00	-3.69	110349.060	2.5	112801.031	1.5
4077.6406	24.00	-3.65	31364.330	3.0	33816.060	4.0
4077.6905	27.00	-3.62	27497.060	2.5	29948.760	2.5
4078.6055	16.00	-0.00	74268.650	1.0	76719.800	1.0
4078.8052	28.01	-3.87	51045.460	4.5	53496.490	5.5
4078.8384	6.00	-3.19	79318.780	1.0	81769.790	2.0
4079.0714	27.00	-2.26	43425.710	2.5	45876.580	2.5
4079.0715	7.00	-2.89	110459.760	1.5	112910.630	2.5
4079.4710	6.00	.27	84032.150	1.0	86482.780	2.0
4079.5043	18.01	-.46	190106.230	1.5	192556.840	2.5
4080.4600	14.00	-.67	54528.220	2.0	56978.256	1.0
4080.6815	10.00	-2.54	167076.982	3.0	169526.885	3.0
4080.6965	10.00	-1.08	167076.991	4.0	169526.885	3.0
4080.7198	9.02	-2.68	464321.840	2.5	466771.720	3.5
4080.8198	6.00	-3.84	83919.650	3.0	86369.470	4.0
4080.8297	11.00	-1.23	34586.960	2.5	37036.774	1.5
4080.8631	11.00	-1.08	34586.960	3.5	37036.754	2.5
4080.8631	11.00	-2.38	34586.960	2.5	37036.754	2.5
4081.5495	7.00	-1.52	104996.240	1.5	107445.622	1.5
4081.6195	6.00	-4.76	86317.640	2.0	88766.980	1.0
4081.6595	7.00	-4.47	110459.760	1.5	112909.076	1.5
4081.6612	10.00	-1.34	167846.689	2.0	170296.004	1.0
4081.7095	10.00	-1.21	167076.982	3.0	169526.268	2.0
4082.0211	16.00	-.48	74270.701	0.0	76719.800	1.0
4082.0245	14.00	-.46	57468.239	2.0	59917.336	2.0
4082.2195	20.02	-3.00	336749.110	1.0	339198.090	1.0
4082.5529	6.00	-2.07	86185.200	2.0	88633.980	3.0
4082.8329	17.00	-3.75	98693.013	3.5	101141.625	4.5
4082.8780	7.00	-4.71	110349.140	3.5	112797.725	3.5
4083.5535	6.00	-2.56	87077.360	0.0	89525.540	1.0
4083.6835	18.00	-1.71	121932.908	1.0	124381.010	2.0
4083.9038	17.00	-3.86	98693.220	2.5	101141.190	3.5
4083.9988	10.00	-1.47	167069.077	2.0	169516.990	1.0
4084.5211	15.00	.07	77888.700	1.5	80336.300	2.5
4084.8232	7.00	-2.29	110498.390	3.5	112945.809	2.5
4084.8399	7.00	-3.98	110498.400	2.5	112945.809	2.5
4085.0952	14.00	-1.21	61574.814	3.0	64022.070	3.0
4085.1036	7.00	-.43	107588.469	.5	110035.720	.5
4085.3390	10.00	-3.85	169814.630	2.0	172261.740	1.0
4085.4391	6.00	.12	81343.990	2.0	83791.040	2.0
4085.9568	6.00	-2.85	86389.380	2.0	88836.120	3.0
4086.3810	14.00	-2.36	61574.814	3.0	64021.300	2.0
4086.4912	23.00	-2.63	34537.210	1.5	36983.630	1.5
4086.9590	6.00	-2.00	87002.260	3.0	89448.400	3.0
4087.0091	6.00	-1.19	78116.740	1.0	80562.850	1.0
4087.0141	14.00	-.83	61304.283	2.0	63750.390	1.0
4087.0258	13.01	-.57	139916.700	1.0	142362.800	1.0
4087.0258	13.01	-.09	139916.700	1.0	142362.800	2.0
4087.1595	28.01	-1.51	135116.720	2.5	137562.740	3.5
4087.3232	14.00	.93	59118.030	3.0	61563.952	4.0
4087.4469	10.00	-4.02	165912.782	1.0	168358.630	1.0
4088.0436	18.00	.02	116999.389	2.0	119444.880	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4088.3696	14.00	-2.22	61574.814	3.0	64020.110	4.0
4088.4131	28.01	-1.17	135261.990	4.5	137707.260	3.5
4088.5301	22.00	-4.19	31725.750	1.0	34170.950	0.0
4088.6221	22.00	-3.50	43799.455	2.0	46244.600	2.0
4088.6305	6.00	-2.96	87002.260	3.0	89447.400	2.0
4088.7090	37.00	-1.85	27835.020	0.0	30280.780	0.0
4088.7976	6.00	-2.97	86321.940	0.0	88766.980	1.0
4089.1990	6.00	-3.51	85188.950	1.0	87633.750	2.0
4089.7176	28.01	-1.88	135338.010	5.5	137782.500	4.5
4089.7896	14.00	-.96	59118.030	3.0	61562.477	3.0
4090.1360	7.00	-2.86	110459.760	1.5	112904.000	.5
4090.3702	29.01	-.59	136773.200	1.0	139217.300	2.0
4090.3702	13.01	.04	139916.700	1.0	142360.800	0.0
4090.5226	7.00	-2.41	110501.800	3.5	112945.809	2.5
4090.5375	17.01	-4.38	150813.000	1.0	153257.000	2.0
4090.9058	28.01	-2.44	118874.110	3.5	121317.890	3.5
4091.3746	17.01	-3.93	126219.000	3.0	128662.500	2.0
4091.4215	18.00	-2.36	121932.908	1.0	124376.380	1.0
4091.7597	6.00	-4.05	83926.200	3.0	86369.470	4.0
4091.7983	10.00	-2.34	167846.430	3.0	170289.677	3.0
4091.8217	10.00	-1.01	167846.444	4.0	170289.677	3.0
4092.0444	6.00	-2.48	83926.370	4.0	86369.470	4.0
4092.2120	10.00	-2.42	167846.677	3.0	170289.677	3.0
4092.2287	23.00	-4.90	20767.570	3.5	23210.560	2.5
4092.2321	10.00	-3.62	167846.689	2.0	170289.677	3.0
4092.2455	27.00	-1.41	44782.130	4.5	47225.110	3.5
4092.3761	14.00	-2.29	59131.912	4.0	61574.814	3.0
4092.3979	10.00	-1.15	167846.430	3.0	170289.319	2.0
4092.4113	17.00	-2.87	97703.941	2.5	100146.822	3.5
4092.5872	7.00	-1.47	104810.330	2.5	107253.106	2.5
4092.6140	6.00	-1.34	83919.760	2.0	86362.520	1.0
4092.6677	10.00	-3.82	165912.782	1.0	168355.510	1.0
4092.8117	10.00	-4.41	167846.677	3.0	170289.319	2.0
4092.8318	10.00	-2.30	167846.689	2.0	170289.319	2.0
4093.0011	10.00	-3.30	167846.430	3.0	170288.959	2.0
4093.4151	10.00	-1.14	167846.677	3.0	170288.959	2.0
4093.4352	10.00	-2.47	167846.689	2.0	170288.959	2.0
4093.5021	6.00	-1.28	78340.280	1.0	80782.510	1.0
4093.7872	18.00	-2.34	122707.940	3.0	125150.000	3.0
4093.8006	17.00	-1.21	95400.731	2.5	97842.783	1.5
4093.8140	26.00	-4.14	52682.930	2.0	55124.974	3.0
4093.9162	10.00	-1.02	167060.301	4.0	169502.284	3.0
4094.1896	18.00	-3.47	122708.180	2.0	125150.000	3.0
4094.2566	23.02	-4.96	158239.700	2.5	160681.480	3.5
4094.4746	18.00	-2.93	119212.930	3.0	121654.580	2.0
4094.8268	23.02	-4.09	159146.600	2.5	161588.040	3.5
4094.8939	6.00	-.48	81311.010	0.0	83752.410	1.0
4094.9107	18.00	-2.11	119212.930	3.0	121654.320	3.0
4095.0028	10.00	-2.57	167060.301	4.0	169501.636	4.0
4095.0129	10.00	-.93	167060.307	5.0	169501.636	4.0
4095.2797	6.00	-1.72	86519.470	1.0	88960.640	0.0
4095.3551	7.00	-3.37	110485.930	1.5	112927.055	1.5
4095.4894	7.00	-2.35	110486.010	2.5	112927.055	1.5
4095.9693	8.00	-3.66	102968.261	2.0	105409.020	1.0
4095.9693	8.00	-4.50	102968.261	2.0	105409.020	2.0
4095.9693	8.00	-3.15	102968.261	3.0	105409.020	2.0
4095.9693	8.00	-4.11	102968.261	3.0	105409.020	3.0
4095.9693	8.00	-2.95	102968.261	4.0	105409.020	3.0
4096.0968	14.00	-.88	56780.427	1.0	59221.110	0.0
4096.1270	8.00	-1.33	102968.355	2.0	105409.020	1.0
4096.1270	8.00	-2.06	102968.355	2.0	105409.020	2.0
4096.1270	8.00	-3.60	102968.355	2.0	105409.020	3.0
4096.1270	8.00	-1.16	102968.355	3.0	105409.020	2.0
4096.1270	8.00	-2.06	102968.355	3.0	105409.020	3.0
4096.2529	27.00	-.87	45876.580	2.5	48317.170	3.5
4096.4342	22.00	-4.03	36132.210	4.0	38572.692	5.0
4096.4543	18.00	-1.77	119212.930	3.0	121653.400	3.0
4096.4543	18.00	-.55	119212.930	3.0	121653.400	4.0
4096.7397	8.01	-2.37	258601.700	1.5	261042.000	2.5
4096.9814	18.00	-2.43	121068.804	1.0	123508.960	0.0
4097.3408	14.00	-.66	60010.458	1.0	62450.400	1.0
4097.6095	14.00	-2.05	60496.358	2.0	62936.140	3.0
4097.8312	18.01	-2.75	192556.840	2.5	194996.490	1.5
4098.0865	10.00	-1.25	167069.064	3.0	169508.562	2.0
4098.1084	10.00	-2.40	167069.077	2.0	169508.562	2.0
4098.7065	7.00	-3.49	110385.330	3.5	112824.459	2.5
4099.4325	14.00	-1.25	60487.103	1.0	62925.800	1.0
4099.6797	18.01	-4.77	199981.940	1.5	202420.490	.5
4099.9991	28.01	-2.08	120002.860	3.5	122441.220	4.5
4100.0664	6.00	-1.72	86397.800	3.0	88836.120	3.0
4100.4363	24.00	-2.64	31377.960	4.0	33816.060	4.0
4100.4531	10.01	-4.36	303824.680	2.5	306262.770	1.5
4100.8248	7.00	-3.36	110473.210	4.5	112911.079	3.5
4101.5483	7.00	-2.66	111853.061	1.5	114290.500	2.5
4102.1155	7.00	-1.50	105008.520	2.5	107445.622	1.5
4102.2872	25.00	-3.19	47154.510	1.5	49591.510	1.5
4102.4942	26.00	-4.93	48928.423	2.0	51365.300	3.0
4102.6407	18.02	-4.49	209127.040	1.0	211563.830	1.0
4102.7383	18.00	-1.83	121068.804	1.0	123505.536	2.0
4103.0785	18.01	-1.97	202149.110	2.5	204585.640	2.5
4103.7185	25.00	-2.39	57705.830	.5	60141.980	.5
4104.0723	6.00	-2.61	84013.250	3.0	86449.190	3.0
4104.3250	6.00	-4.43	84013.400	2.0	86449.190	3.0
4104.3587	10.00	-1.95	167052.645	1.0	169488.415	1.0
4104.3790	10.00	-1.50	167052.657	2.0	169488.415	1.0
4104.4261	25.00	-3.65	55186.170	2.5	57621.900	1.5
4104.4430	18.02	-2.96	204797.370	3.0	207233.090	2.0
4105.0666	6.00	-3.20	86331.630	1.0	88766.980	1.0
4105.5217	26.02	-4.13	199595.300	3.0	202030.380	3.0
4105.8893	12.00	-2.08	56968.248	2.0	59403.110	1.0
4105.9938	17.01	-4.97	149798.300	2.0	152233.100	2.0
4106.0444	22.00	-4.70	42146.390	1.0	44581.160	2.0
4107.0059	29.01	-2.48	145927.500	2.0	148361.700	1.0
4107.0700	17.00	-3.90	97712.660	4.5	100146.822	3.5
4107.3823	14.00	-1.39	60487.103	1.0	62921.080	2.0
4107.8497	28.01	-4.28	112686.300	2.5	115120.000	2.5
4108.1030	7.00	-2.87	110404.470	1.5	112838.020	1.5
4108.1873	7.00	-2.53	110404.520	2.5	112838.020	1.5
4108.2548	23.00	-4.11	36989.200	2.5	39422.660	2.5
4108.6820	10.00	-3.27	167069.077	2.0	169502.284	3.0
4109.0823	12.01	.48	103196.750	.5	105629.720	1.5
4109.1329	6.00	-1.20	84016.250	4.0	86449.190	3.0
4109.4876	6.00	-3.05	85399.810	2.0	87832.540	2.0
4109.6042	17.00	-4.57	94827.150	2.5	97259.811	1.5
4109.7545	10.00	-3.16	167069.064	3.0	169501.636	4.0
4109.8002	12.00	-2.63	56968.218	3.0	59400.763	2.0
4109.8002	12.00	-1.30	56968.218	3.0	59400.763	3.0
4109.8002	12.00	-1.49	56968.218	3.0	59400.763	3.0
4109.8002	12.00	-.02	56968.218	3.0	59400.763	4.0
4109.8509	12.00	-1.26	56968.248	2.0	59400.763	2.0
4109.8509	12.00	-.44	56968.248	2.0	59400.763	3.0
4109.8509	12.00	-1.02	56968.248	2.0	59400.763	3.0
4109.8897	12.00	-.35	56968.271	1.0	59400.763	2.0
4110.0451	14.00	-2.08	62450.400	1.0	64882.800	2.0
4110.0789	11.00	-.83	37296.320	.5	39728.700	1.5
4110.1803	29.01	-4.54	115639.020	2.0	118071.340	1.0
4110.5521	18.00	-3.01	122717.900	3.0	125150.000	3.0
4110.5521	18.00	-1.78	122717.900	4.0	125150.000	3.0
4110.7515	14.00	-1.28	60381.278	1.0	62813.260	1.0
4110.8226	17.00	-3.18	97739.040	.5	100170.980	1.5
4111.0930	6.00	-3.14	86362.520	1.0	88794.300	2.0
4111.1607	23.00	-4.80	36695.490	.5	39127.230	1.5
4111.2959	17.00	-2.13	97739.320	1.5	100170.980	1.5
4111.6730	7.00	-2.80	110395.463	1.5	112826.900	2.5
4111.7813	18.00	-3.19	122635.128	2.0	125066.501	2.0
4111.8438	22.00	-2.35	33700.874	4.0	36132.210	4.0
4112.1415	27.00	-4.77	52014.450	1.5	54445.610	2.5
4112.2598	11.00	-.57	37297.610	1.5	39728.700	2.5
4112.2598	11.00	-1.53	37297.610	1.5	39728.700	1.5
4113.4629	28.00	-.99	46522.965	2.0	48953.344	1.0
4113.4951	6.00	-2.52	85399.810	2.0	87830.170	1.0
4113.5509	10.00	-1.83	167052.645	1.0	169482.972	0.0
4113.9183	6.00	-2.51	85203.640	2.0	87633.750	2.0
4113.9369	26.00	-4.25	43079.013	1.0	45509.112	1.0
4114.1214	14.00	-2.71	62231.990	2.0	64661.980	3.0
4114.3872	26.00	-4.85	51461.707	4.0	53891.540	3.0
4114.8021	22.00	-4.50	38764.832	3.0	41194.420	3.0
4114.8834	28.01	-4.12	116468.400	1.5	118897.940	2.5
4115.0494	14.00	-2.23	60496.358	2.0	62925.800	1.0
4115.1036	28.01	.32	136673.640	4.5	139103.050	5.5
4115.4255	6.00	-2.51	87002.260	3.0	89431.480	2.0
4115.5779	26.01	-3.91	85172.770	.5	87601.900	1.5
4115.6288	12.02	-2.24	582134.800	4.0	584563.900	3.0
4116.0643	12.00	-1.11	58575.487	3.0	61004.330	2.0
4116.0643	12.00	-2.23	58575.487	3.0	61004.330	3.0
4116.1168	12.00	-2.16	58575.518	2.0	61004.330	2.0
4116.1168	12.00	-1.25	58575.518	2.0	61004.330	1.0
4116.1168	12.00	-2.86	58575.518	3.0	61004.330	2.0
4116.1168	12.00	-3.53	58575.518	2.0	61004.330	3.0
4116.1168	12.00	-2.35	58575.518	3.0	61004.330	3.0
4116.1829	28.00	-4.07	40361.254	3.0	42790.027	2.0
4116.3286	26.00	-4.59	47005.455	5.0	49434.142	6.0
4116.4083	18.01	-2.52	170400.940	2.5	172829.580	1.5
4116.9338	6.00	-2.62	86362.520	1.0	88790.850	1.0
4117.1661	14.00	-2.43	61562.477	3.0	63990.670	2.0
4117.2221	9.02	-2.24	442147.190	2.5	444575.350	2.5
4117.4492	7.00	-2.87	104825.080	2.5	107253.106	2.5
4117.7817	23.00	-4.93	40125.790	3.5	42553.620	4.5
4118.7147	18.00	-2.40	122686.200	1.0	125113.480	2.0
4118.8708	7.00	-2.91	110385.330	2.5	112812.518	2.5
4118.8708	7.00	-3.33	110385.330	3.5	112812.518	2.5
4119.0541	18.00	-1.50	122686.400	2.0	125113.480	2.0
4119.7840	6.00	-.75	81325.760	1.0	83752.410	1.0
4120.2459	20.00	-1.88	44955.670	0.0	47382.048	1.0
4120.3443	25.00	-1.72	57305.620	3.5	59731.940	4.5
4120.3953	23.00	-4.61	41492.290	3.5	43918.580	2.5
4120.3953	24.00	-4.74	46081.270	0.0	48507.560	1.0
4121.0237	25.00	-3.47	55279.910	1.5	57705.830	.5
4121.2072	12.00	-.92	58578.518	4.0	61004.330	3.0
4121.3805	22.00	-4.70	43467.550	2.0	45893.260	3.0
4121.4484	18.01	-1.92	186340.480	1.5	188766.150	2.5
4121.5164	15.01	-3.16	102799.200	1.0	105224.830	0.0
4121.5844	12.01	.17	103196.750	.5	105622.340	.5
4121.6000	2.00	.29	191493.000	0.0	193919.242	0.0
4121.6626	7.00	-3.11	110401.356	2.5	112826.900	2.5
4121.6626	7.00	-2.51	110401.356	2.5	112826.900	3.5
4121.6863	28.01	-2.31	129503.240	4.5	131928.770	4.5
4121.9549	14.00	-1.49	60381.278	1.0	62806.650	0.0
4122.0739	10.00	-1.98	167076.982	3.0	169502.284	3.0
4122.0891	10.00	-3.72	167076.991	4.0	169502.284	3.0
4122.4698	7.00	-3.33	110486.010	2.5	112911.079	3.5
4122.4766	10.00	-4.68	169488.415	1.0	171913.480	0.0
4122.8421	14.00	-2.19	54871.031	1.0	57295.881	0.0
4122.9952	6.00	-4.29	86449.190	3.0	88873.950	2.0
4122.9969	7.00	-3.78	110521.050	1.5	112945.809	2.5
4123.0598	14.00	-.92	60496.358	2.0	62921.080	2.0
4123.0973	6.00	-2.18	86369.600	2.0	88794.300	2.0
4123.1755	10.00	-3.42	167076.982	3.0	169501.636	4.0
4123.1907	10.00	-1.88	167076.991	4.0	169501.636	4.0
4123.2332	7.00	-2.38	110486.010	2.5	112910.630	2.5
4123.4714	22.00	-4.37	43583.140	3.0	46007.620	4.0
4123.6193	20.00	-1.40	44957.655	1.0	47382.048	1.0
4124.1178	12.00	-4.71	58580.230	1.0	61004.330	2.0
4124.4036	14.00	-1.85	60706.558	1.0	63130.490	1.0
4124.5908	18.00	-2.21	121932.908	1.0	124356.730	2.0
4124.8324	7.00	-4.45	110403.220	3.5	112826.900	2.5
4124.8324	7.00	-3.92	110403.220	3.5	112826.900	3.5
4125.0877	18.01	-3.40	209337.870	4.5	211761.400	3.5
4125.1217	18.01	-1.76	209337.870	4.5	211761.380	4.5
4125.5644	28.01	-4.79	128799.720	.5	131222.970	1.5
4125.6665	18.01	-1.86	209338.210	3.5	211761.400	3.5
4125.7006	18.01	-3.40	209338.210	3.5	211761.380	4.5
4125.8776	7.00	-4.83	110486.010	2.5	112909.076	1.5
4126.3136	23.02	-4.07	159146.600	2.5	161569.410	1.5
4126.3647	14.00	-.40	62421.030	3.0	64843.810	4.0
4126.5691	24.00	-1.79	31393.400	5.0	33816.060	4.0
4126.6713	29.01	.06	139119.500	3.0	141542.100	2.0
4126.9779	6.00	-3.45	87103.120	1.0	89525.540	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4127.0120	28.01	-2.31	115956.710	2.5	118379.110	2.5
4127.1671	7.00	-4.54	110402.150	3.5	112824.459	2.5
4127.4380	6.00	-4.03	86491.410	1.0	88913.560	2.0
4128.0515	28.01	-3.06	112686.300	2.5	115108.090	2.5
4128.3243	6.00	-4.54	81325.760	1.0	83747.390	2.0
4128.3260	7.00	-3.24	104615.440	1.5	107037.069	2.5
4128.6141	28.01	-4.70	116893.980	2.5	119315.440	2.5
4128.6652	23.00	-3.47	20789.130	2.5	23210.560	2.5
4128.9722	6.00	-2.47	86369.600	2.0	88790.850	1.0
4129.1256	22.00	-4.96	40302.950	3.0	42724.110	2.0
4129.5026	7.00	-2.97	111853.061	1.5	114274.000	2.5
4130.1492	28.01	-3.49	118874.110	3.5	121294.670	4.5
4130.4393	14.00	-2.05	62226.390	1.0	64646.780	2.0
4130.6082	20.00	-1.19	44961.757	2.0	47382.048	1.0
4130.8233	14.00	-2.63	61598.145	2.0	64018.310	1.0
4131.0503	26.00	-4.89	48460.120	0.0	50880.152	1.0
4131.1237	14.00	-2.05	56690.903	2.0	59110.892	2.0
4131.2091	7.00	-4.06	110404.520	2.5	112824.459	2.5
4132.0952	26.00	-4.98	51381.480	4.0	53800.900	5.0
4132.2353	10.00	-2.65	167069.077	2.0	169488.415	1.0
4132.3344	6.00	-2.38	87103.120	1.0	89522.400	2.0
4132.4881	10.01	-4.63	303824.230	3.5	306243.420	2.5
4132.6419	13.01	-.78	142362.800	2.0	144781.900	3.0
4132.6419	13.01	-1.68	142362.800	3.0	144781.900	3.0
4132.7170	14.00	.25	56690.903	2.0	59109.959	3.0
4132.8930	18.00	-1.74	123372.987	2.0	125791.940	2.0
4133.5987	20.00	-1.18	46258.380	1.0	48676.920	1.0
4133.5987	20.00	-.87	46258.380	1.0	48676.920	2.0
4133.7013	23.00	-4.00	36822.860	3.5	39241.340	2.5
4133.7355	28.01	-3.22	118809.340	1.5	121227.800	2.5
4133.8345	20.00	-2.49	45425.358	1.0	47843.760	0.0
4134.1629	15.01	-4.31	101636.490	1.0	104054.700	1.0
4134.2483	27.00	-4.63	50925.110	1.5	53343.270	1.5
4134.2671	14.00	-3.34	61303.381	3.0	63721.530	2.0
4134.4022	7.00	-4.32	110485.930	1.5	112904.000	.5
4134.4740	7.00	-1.30	110473.210	4.5	112891.238	3.5
4134.5219	15.01	-1.65	127756.300	2.0	130174.300	2.0
4134.6586	10.00	-3.80	169843.820	2.0	172261.740	1.0
4135.0349	28.01	-3.80	116145.690	3.5	118563.390	3.5
4135.6217	18.00	-.24	118651.447	1.0	121068.804	1.0
4135.7704	6.00	-1.89	81343.990	2.0	83761.260	3.0
4135.8098	14.00	-4.02	61304.283	2.0	63721.530	2.0
4135.8902	28.01	-4.76	113321.950	4.5	115739.150	4.5
4135.8902	15.00	-1.05	75353.400	1.5	77770.600	.5
4135.8902	8.00	-1.73	102968.261	1.0	105385.461	0.0
4135.9125	8.00	-1.73	102968.261	1.0	105385.448	1.0
4135.9125	8.00	-1.43	102968.261	2.0	105385.448	1.0
4135.9587	8.00	-2.58	102968.261	1.0	105385.421	2.0
4135.9587	8.00	-1.58	102968.261	2.0	105385.421	2.0
4135.9587	8.00	-1.20	102968.261	3.0	105385.421	2.0
4136.0135	8.00	-2.58	102968.261	2.0	105385.389	3.0
4136.0135	8.00	-1.56	102968.261	3.0	105385.389	3.0
4136.0135	8.00	-1.01	102968.261	4.0	105385.389	3.0
4136.0527	8.00	-2.89	102968.261	3.0	105385.366	4.0
4136.0527	8.00	-1.71	102968.261	4.0	105385.366	4.0
4136.0527	8.00	-.84	102968.261	5.0	105385.366	4.0
4136.0733	8.00	-3.78	102968.355	2.0	105385.448	1.0
4136.1195	8.00	-3.92	102968.355	2.0	105385.421	2.0
4136.1195	8.00	-3.20	102968.355	3.0	105385.421	2.0
4136.1743	8.00	-4.90	102968.355	2.0	105385.389	3.0
4136.1743	8.00	-3.53	102968.355	3.0	105385.389	3.0
4136.2136	8.00	-4.82	102968.355	3.0	105385.366	4.0
4136.5713	14.00	-1.20	60706.558	1.0	63123.360	0.0
4136.6261	28.01	-1.16	135338.010	5.5	137754.780	5.5
4136.9000	22.00	-3.68	44233.650	3.0	46650.260	3.0
4136.9685	28.01	-2.72	100609.010	2.5	103025.580	2.5
4137.1226	14.00	-1.52	61305.050	3.0	63721.530	2.0
4137.6876	20.00	-2.36	46260.770	2.0	48676.920	1.0
4137.6876	20.00	-1.35	46260.770	2.0	48676.920	2.0
4137.6876	20.00	-.43	46260.770	2.0	48676.920	3.0
4138.1843	28.01	-.76	135338.010	5.5	137753.870	4.5
4138.4070	26.00	-3.66	44676.963	4.0	47092.693	3.0
4138.4567	7.00	-1.67	110385.330	2.5	112801.031	1.5
4138.6639	9.02	-2.47	466190.470	4.5	468606.050	3.5
4138.8182	14.00	-2.26	62231.990	2.0	64647.480	3.0
4138.8524	9.02	-.83	466190.470	4.5	468605.940	4.5
4139.1437	15.00	-3.34	78133.500	2.5	80548.800	2.5
4139.3665	29.01	-3.74	131312.700	3.0	133727.870	2.0
4139.4865	14.01	-2.24	124948.660	3.5	127363.760	3.5
4139.4865	14.01	-.69	124948.660	4.5	127363.760	3.5
4139.4865	14.01	-.81	124948.660	3.5	127363.760	2.5
4139.5208	9.02	-.91	466190.970	3.5	468606.050	3.5
4139.7093	9.02	-4.58	466190.970	3.5	468605.940	4.5
4139.7436	22.00	-2.82	41818.700	4.0	44233.650	3.0
4139.8636	10.00	-4.01	169839.450	1.0	172254.330	0.0
4140.0179	14.00	-2.22	62231.990	2.0	64646.780	2.0
4140.0694	6.00	-4.17	78148.090	2.0	80562.850	1.0
4140.8581	6.00	-.59	81325.760	1.0	83740.060	0.0
4140.9096	28.01	-4.53	103025.580	2.5	105439.850	1.5
4140.9439	28.01	-2.70	99340.550	3.5	101754.800	2.5
4141.2372	10.00	-1.07	169797.190	3.0	172211.269	3.0
4141.5015	10.00	-2.37	169797.190	3.0	172211.115	2.0
4142.4710	23.00	-2.89	39241.340	2.5	41654.700	2.5
4142.5517	14.00	.58	58893.400	3.0	61306.713	4.0
4142.5740	29.01	-2.42	134359.900	1.0	136773.200	1.0
4142.7285	22.00	-3.15	43744.550	4.0	46157.760	5.0
4143.3089	14.00	-3.17	59034.988	3.0	61447.860	2.0
4143.4496	6.00	-3.59	84036.400	2.0	86449.190	3.0
4143.6231	7.00	-2.31	110498.390	3.5	112911.079	3.5
4143.6403	7.00	-4.89	110498.400	2.5	112911.079	3.5
4144.1280	7.00	-3.60	110385.330	2.5	112797.725	3.5
4144.1280	7.00	-3.04	110385.330	3.5	112797.725	3.5
4144.2397	6.00	-3.15	87113.210	2.0	89525.540	1.0
4144.3085	28.01	-2.95	118828.610	2.5	121240.900	3.5
4144.3944	7.00	-2.30	110498.390	3.5	112910.630	2.5
4144.4116	7.00	-4.75	110498.400	2.5	112910.630	2.5
4144.5146	22.00	-1.48	36132.210	4.0	38544.380	3.0
4144.7380	28.01	-4.36	131796.260	2.5	134208.300	2.5
4144.8137	18.00	-2.20	121470.304	0.0	123882.300	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4144.8927	29.01	-.07	136919.350	3.0	139331.300	3.0
4145.4083	14.00	-.83	58893.400	3.0	61305.050	3.0
4145.5286	6.00	-2.31	83986.220	3.0	86397.800	3.0
4145.6489	37.00	-1.19	27870.110	0.0	30282.278	0.0
4145.9241	6.00	-1.50	83986.450	4.0	86397.800	3.0
4146.0701	7.00	-4.89	110349.060	2.5	112760.325	2.5
4146.2077	7.00	-4.65	110349.140	3.5	112760.325	2.5
4146.4932	14.00	-.88	61303.381	3.0	63714.400	2.0
4146.6875	7.00	-1.48	110349.060	2.5	112759.966	1.5
4146.7013	7.00	-.35	107445.622	1.5	109856.520	1.5
4146.7271	14.00	-2.75	58893.400	3.0	61304.283	2.0
4146.9163	28.00	-3.48	44112.192	1.0	46522.965	2.0
4147.1416	14.00	-.27	56700.250	1.0	59110.892	2.0
4147.2311	10.00	-1.75	170578.390	1.0	172988.980	1.0
4147.3688	7.00	-2.79	110459.760	.5	112870.270	.5
4147.3688	7.00	-2.22	110459.760	1.5	112870.270	.5
4147.4548	22.00	-4.06	41823.190	3.0	44233.650	3.0
4147.6131	7.00	-1.94	110402.150	3.5	112812.518	2.5
4147.6957	22.00	-3.86	40670.600	2.0	43080.920	2.0
4147.8058	7.00	-1.25	110470.244	2.5	112880.500	2.5
4147.8402	28.00	-2.65	51343.800	2.0	53754.036	2.0
4148.0037	12.00	-.75	58476.689	0.0	60886.830	1.0
4148.0055	24.00	-3.73	31352.420	1.0	33762.560	0.0
4148.0451	14.00	-2.05	61304.283	2.0	63714.400	2.0
4148.2413	37.00	-2.14	27870.110	0.0	30280.770	0.0
4148.2791	14.00	-.83	58893.400	3.0	61303.381	3.0
4148.4237	22.00	-1.43	33655.853	2.0	36065.750	3.0
4148.5734	12.00	-.88	58477.020	1.0	60886.830	1.0
4148.5734	12.00	-.57	58477.020	1.0	60886.830	2.0
4148.6768	22.00	-4.81	39214.380	3.0	41624.130	4.0
4148.9522	10.00	-2.00	169797.190	3.0	172206.780	2.0
4149.2295	7.00	-3.35	110501.650	4.5	112911.079	3.5
4149.3139	56.01	.20	57390.930	0.0	59800.967	0.0
4149.3655	14.00	-1.43	61305.050	3.0	63714.400	2.0
4149.4878	7.00	-3.59	110501.800	3.5	112911.079	3.5
4149.6238	19.02	-3.03	241039.000	1.5	243448.200	1.5
4149.6411	6.00	-1.68	87113.210	2.0	89522.400	2.0
4149.8478	12.00	-2.05	58477.760	2.0	60886.830	1.0
4149.8478	12.00	-1.05	58477.760	2.0	60886.830	2.0
4149.8478	12.00	-.13	58477.760	2.0	60886.830	3.0
4150.2613	7.00	-2.78	110501.800	3.5	112910.630	2.5
4150.2888	26.00	-2.71	48289.852	1.0	50698.666	2.0
4150.2889	10.00	-2.44	170578.390	1.0	172987.204	2.0
4150.5025	28.01	-3.92	116468.400	1.5	118877.090	1.5
4150.5025	10.00	-.71	170578.390	1.0	172987.080	2.0
4150.9678	6.00	-.43	81343.990	2.0	83752.410	1.0
4151.5073	10.00	-1.81	169797.190	3.0	172205.297	3.0
4151.6090	7.00	-4.36	110404.470	1.5	112812.518	2.5
4151.6918	13.01	-.68	146414.500	3.0	148822.500	2.0
4151.6918	13.01	-2.10	146414.500	3.0	148822.500	3.0
4151.6918	13.01	-3.53	146414.500	3.0	148822.500	4.0
4151.6918	13.01	-2.13	146414.500	4.0	148822.500	3.0
4151.6918	13.01	-.73	146414.500	4.0	148822.500	3.0
4151.6918	13.01	-1.97	146414.500	4.0	148822.500	4.0
4151.6918	13.01	-2.11	146414.500	4.0	148822.500	4.0
4151.6918	13.01	-.44	146414.500	5.0	148822.500	4.0
4151.6953	7.00	-2.82	110404.520	2.5	112812.518	2.5
4151.7953	10.00	-.42	169797.190	3.0	172205.130	4.0
4151.8642	14.00	-.94	60042.500	0.0	62450.400	1.0
4152.0367	15.00	-4.14	74301.700	2.5	76709.500	3.5
4152.3022	7.00	-3.87	110470.244	2.5	112877.890	3.5
4152.5368	6.00	-2.46	83919.650	3.0	86327.160	3.0
4152.6627	7.00	-.72	107628.283	1.5	110035.720	.5
4152.6989	17.00	-3.12	91906.790	2.5	94314.206	1.5
4152.7265	6.00	-3.47	83919.760	2.0	86327.160	3.0
4152.7403	26.00	-4.51	49297.660	1.0	51705.052	2.0
4152.8818	6.00	-1.81	87103.120	1.0	89510.430	2.0
4153.2096	6.00	-.74	85399.810	2.0	87806.930	3.0
4153.4581	17.00	-.07	95400.731	2.5	97807.707	2.5
4153.6582	6.00	-2.36	86506.700	2.0	88913.560	2.0
4153.9516	25.00	.42	50904.680	2.5	53311.370	1.5
4154.2969	27.00	-4.84	46671.940	2.5	49078.430	1.5
4154.7354	20.00	-2.78	46164.644	2.0	48570.880	2.0
4154.7354	20.00	-1.87	46164.644	2.0	48570.880	1.0
4154.7354	20.00	-4.15	46164.644	2.0	48570.880	3.0
4154.9789	20.00	-1.87	46164.785	3.0	48570.880	2.0
4154.9789	20.00	-2.61	46164.785	3.0	48570.880	3.0
4155.0048	23.00	-2.00	34619.520	2.5	37025.600	3.5
4155.1342	7.00	-3.62	110521.050	1.5	112927.055	1.5
4155.2465	29.01	-3.47	115665.400	1.0	118071.340	1.0
4155.2483	7.00	-2.34	111853.061	1.5	114259.000	1.5
4155.2811	6.00	-3.45	87113.210	2.0	89519.130	3.0
4155.3001	20.00	-1.54	46164.971	4.0	48570.880	3.0
4155.6093	26.00	-4.72	58271.500	5.0	60677.230	5.0
4155.7302	28.01	-4.45	101247.370	2.5	103653.030	3.5
4155.9375	18.00	-.92	122707.940	3.0	125113.480	2.0
4156.0584	19.00	-2.33	31695.890	2.5	34101.360	2.5
4156.0584	19.00	-1.03	31695.890	2.5	34101.360	3.5
4156.3522	18.00	-1.90	122708.180	2.0	125113.480	2.0
4156.4766	7.00	-3.91	110486.010	2.5	112891.238	3.5
4156.5077	19.00	-1.18	31696.150	1.5	34101.360	2.5
4156.9225	22.00	-2.49	41757.470	3.0	44162.440	4.0
4156.9743	28.01	-.11	135338.010	5.5	137742.950	5.5
4157.0089	6.00	-1.95	86389.380	2.0	88794.300	2.0
4157.0607	9.02	-.56	442147.190	2.5	444552.080	3.5
4157.3200	14.00	-.45	62519.660	2.0	64924.400	3.0
4157.4584	28.01	-4.27	130765.260	3.5	133169.920	3.5
4157.8042	6.00	-2.70	86362.520	1.0	88766.980	1.0
4158.0584	18.00	-.78	123372.987	2.0	125777.300	1.0
4158.0808	15.00	-.85	75484.400	2.5	77888.700	1.5
4158.4268	13.01	-.22	144939.100	1.0	147343.200	2.0
4158.7036	10.00	-1.45	170585.040	1.0	172988.980	1.0
4158.8316	26.00	-4.45	54379.440	3.0	56783.306	3.0
4159.3784	28.01	-2.55	118914.340	4.5	121317.890	3.5
4159.6379	6.00	-3.10	81343.990	2.0	83747.390	2.0
4160.0534	6.00	-1.52	83986.220	3.0	86389.380	2.0
4160.1625	7.00	-3.10	110404.470	1.5	112807.567	.5
4161.1789	25.00	-1.93	59731.940	4.5	62134.450	5.5
4161.7782	10.00	-.75	170585.040	1.0	172987.204	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4162.6169	28.01	-1.93	118892.990	5.5	121294.670	4.5
4162.9809	6.00	-2.12	86389.380	2.0	88790.850	1.0
4163.7959	8.03	-1.44	594074.000	3.5	596475.000	3.5
4163.8653	6.00	-3.41	83926.200	3.0	86327.160	3.0
4163.8670	7.00	-3.61	110544.850	2.5	112945.809	2.5
4164.0074	14.00	-1.50	59110.892	2.0	61511.770	1.0
4164.1601	28.01	-4.95	128822.230	1.5	131223.020	2.5
4164.1601	6.00	-1.25	83926.370	4.0	86327.160	3.0
4164.5244	9.02	-1.75	464321.840	2.5	466722.420	2.5
4165.5308	29.01	-.44	139142.100	2.0	141542.100	2.0
4166.8676	18.00	-2.15	121068.804	1.0	123468.034	1.0
4166.9371	28.01	-3.52	118828.610	2.5	121227.800	2.5
4167.0935	12.02	-1.89	582290.100	3.0	584689.200	4.0
4167.4756	18.01	-4.11	189934.550	.5	192333.430	.5
4168.2123	7.00	-3.56	110470.244	2.5	112868.700	3.5
4168.6573	24.00	-4.98	48661.590	3.0	51059.790	4.0
4168.7442	29.01	-2.55	134675.600	2.0	137073.750	2.0
4169.0224	6.00	-1.36	83919.650	3.0	86317.640	2.0
4169.2136	6.00	-4.95	83919.760	2.0	86317.640	2.0
4169.3527	12.02	-.99	582290.100	3.0	584687.900	3.0
4169.5439	6.00	-1.22	87113.210	2.0	89510.900	3.0
4169.7527	23.00	-2.97	20812.990	1.5	23210.560	2.5
4169.8483	14.00	-2.24	48102.323	2.0	50499.838	2.0
4169.9092	18.02	-3.92	209166.350	0.0	211563.830	1.0
4170.0831	6.00	-3.87	86369.600	2.0	88766.980	1.0
4170.3615	6.00	-2.47	87113.210	2.0	89510.430	2.0
4170.3788	28.01	.38	135338.010	5.5	137735.220	6.5
4170.6398	23.00	-4.83	37025.600	3.5	39422.660	2.5
4171.3724	10.00	-2.23	169814.630	2.0	172211.269	3.0
4171.5082	7.00	-2.20	110404.470	1.5	112801.031	1.5
4171.5935	14.00	-2.32	58801.524	1.0	61198.036	0.0
4171.5953	7.00	-2.35	110404.520	2.5	112801.031	1.5
4171.6144	6.00	-1.90	86397.800	3.0	88794.300	2.0
4171.6317	10.00	-4.73	169516.990	1.0	171913.480	0.0
4171.6404	10.00	-1.13	169814.630	2.0	172211.115	2.0
4171.7014	28.01	-3.47	135618.080	2.5	138014.530	2.5
4172.0148	28.01	.01	120044.950	4.5	122441.220	4.5
4173.0684	7.00	-4.41	110402.060	4.5	112797.725	3.5
4173.2164	18.00	-2.48	122717.900	3.0	125113.480	2.0
4173.2251	7.00	-3.07	110402.150	3.5	112797.725	3.5
4173.2861	6.00	-.43	84103.100	2.0	86498.640	2.0
4173.4430	6.00	-1.35	84103.100	2.0	86498.550	1.0
4173.5126	14.02	.18	242537.950	0.0	244933.360	1.0
4174.7675	28.01	-4.45	118923.200	3.5	121317.890	3.5
4174.8895	28.01	-3.62	135619.910	1.5	138014.530	2.5
4175.0987	18.01	-3.23	209337.870	4.5	211732.370	4.5
4175.1336	10.00	-2.04	169814.630	2.0	172209.110	1.0
4175.6044	29.01	-3.92	134359.900	1.0	136754.110	2.0
4175.6916	18.01	-1.59	209338.210	3.5	211732.370	4.5
4175.7352	14.00	-1.31	60962.105	2.0	63356.240	2.0
4175.8137	6.00	-2.90	86519.470	1.0	88913.560	2.0
4175.9358	28.01	-4.83	106369.300	1.5	108763.320	.5
4176.1033	26.00	-3.19	40421.890	4.0	42815.814	5.0
4176.4417	22.00	-2.33	43674.310	4.0	46068.040	4.0
4177.0071	7.00	-4.10	104859.700	1.5	107253.106	2.5
4177.0927	12.00	-1.12	56186.873	0.0	58580.230	1.0
4177.2514	14.00	-3.18	61597.404	3.0	63990.670	2.0
4177.3579	7.00	-4.78	110404.520	2.5	112797.725	3.5
4177.4644	7.00	-3.95	109926.661	2.5	112319.805	1.5
4177.5412	15.00	-1.19	75675.900	1.5	78069.000	1.5
4177.6459	18.01	-4.77	201720.670	1.5	204113.710	1.5
4177.7158	27.00	-3.54	46685.430	1.5	49078.430	1.5
4177.9811	7.00	-3.41	110498.390	3.5	112891.238	3.5
4178.2745	18.01	-1.19	200151.640	1.5	202544.320	2.5
4178.4317	6.00	-2.59	81105.030	1.0	83497.620	2.0
4178.5452	14.00	-3.43	61598.145	2.0	63990.670	2.0
4179.1000	3.00	-.35	36623.000	0.0	39015.860	0.0
4179.1304	27.00	-1.81	45924.980	3.5	48317.170	3.5
4179.2003	10.00	-2.22	169814.630	2.0	172206.780	2.0
4179.4134	18.00	-1.43	121165.431	3.0	123557.459	3.0
4179.5846	28.01	-3.89	135622.600	3.5	138014.530	2.5
4179.6545	27.00	-4.82	50578.730	3.5	52970.620	2.5
4179.7244	29.01	-2.05	118484.000	3.0	120875.850	2.0
4179.8293	10.00	-2.45	170597.190	2.0	172988.980	1.0
4180.1211	22.00	-4.89	39715.437	3.0	42107.060	4.0
4180.4410	6.00	-3.08	83926.200	3.0	86317.640	2.0
4180.4847	26.00	-4.44	45061.287	3.0	47452.702	4.0
4181.0355	29.01	-.32	138593.100	1.0	140984.200	1.0
4181.3152	28.01	-3.96	135623.590	1.5	138014.530	2.5
4181.4377	28.01	-3.36	118927.020	4.5	121317.890	3.5
4181.5566	14.00	-.79	60706.558	1.0	63097.360	1.0
4181.7927	10.00	-.59	169814.630	2.0	172205.297	3.0
4182.1618	28.00	-5.00	48953.344	1.0	51343.800	2.0
4182.3473	14.00	-3.94	62226.390	1.0	64616.740	2.0
4182.7673	6.00	-.45	86185.200	2.0	88575.310	3.0
4182.7970	10.00	-.53	170597.190	2.0	172987.283	3.0
4182.9353	10.00	-1.50	170597.190	2.0	172987.204	2.0
4183.0175	13.00	.58	38929.405	1.5	41319.372	2.5
4183.1523	10.00	-1.67	170597.190	2.0	172987.080	2.0
4183.2749	6.00	-.78	85399.810	2.0	87789.630	1.0
4183.4849	15.00	-1.02	77946.600	2.5	80336.300	2.5
4183.5374	6.00	-.25	86185.200	2.0	88574.870	3.0
4183.5724	6.00	-1.13	86185.200	2.0	88574.850	2.0
4183.6810	7.00	-1.78	110501.650	4.5	112891.238	3.5
4183.6950	7.00	-3.54	110521.050	1.5	112910.630	2.5
4183.9436	7.00	-3.16	110501.800	3.5	112891.238	3.5
4184.7720	14.00	-4.90	60815.925	2.0	63204.890	2.0
4184.8158	27.00	-2.93	46329.630	2.5	48718.570	2.5
4184.9209	14.00	-.51	60704.530	3.0	63093.410	2.0
4185.2012	22.00	-.96	41194.420	3.0	43583.140	3.0
4185.6200	20.00	-2.18	46182.399	3.0	48570.880	2.0
4185.8145	28.01	-3.09	113177.610	3.5	115565.980	2.5
4185.8671	28.01	-4.96	112719.750	3.5	115108.090	2.5
4185.9582	7.00	-1.78	110473.060	5.5	112861.348	4.5
4186.0389	14.00	-2.29	59034.988	3.0	61423.230	3.0
4186.2212	7.00	-3.23	110473.210	4.5	112861.348	4.5
4186.7787	18.01	-3.28	209337.870	4.5	211725.690	3.5
4186.8138	22.00	-4.73	40844.190	3.0	43231.990	4.0
4187.2644	22.00	-4.18	38699.767	2.0	41087.310	3.0
4187.3750	18.01	-4.83	209338.210	3.5	211725.690	3.5
4187.5328	18.01	-3.40	209338.210	3.5	211725.600	2.5
4187.5556	14.00	-2.55	60487.103	1.0	62874.480	2.0
4187.6029	28.01	-4.40	133735.260	2.5	136122.610	2.5
4187.7783	10.00	-2.32	169814.630	2.0	172201.880	1.0
4188.3398	6.00	-3.34	86449.190	3.0	88836.120	3.0
4188.3924	25.00	.59	50904.680	2.5	53291.580	2.5
4188.4767	14.00	-1.14	60706.558	1.0	63093.410	2.0
4189.2524	9.02	-1.85	464321.840	2.5	466708.250	1.5
4189.6439	14.00	-1.87	59037.043	4.0	61423.230	3.0
4189.6492	14.00	-2.66	61198.036	0.0	63584.220	1.0
4190.6046	18.01	-3.84	201345.220	1.5	203730.860	1.5
4190.6397	22.00	-2.39	33680.130	3.0	36065.750	3.0
4190.7662	22.00	-1.61	36065.750	3.0	38451.298	2.0
4190.9928	13.00	.73	38933.961	2.5	41319.380	3.5
4191.0069	13.00	-.57	38933.961	2.5	41319.372	2.5
4191.5006	28.01	-3.18	135629.400	3.5	138014.530	2.5
4191.8521	29.01	-1.08	138819.170	3.0	141204.100	3.0
4191.9207	7.00	-1.74	111905.609	2.5	114290.500	2.5
4192.1686	14.00	-4.08	62231.990	2.0	64616.740	2.0
4192.5202	6.00	-1.89	84013.250	3.0	86397.800	3.0
4192.7839	6.00	-2.94	84013.400	2.0	86397.800	3.0
4192.8894	7.00	-3.93	110485.930	1.5	112870.270	.5
4193.5050	18.01	-3.93	200623.700	.5	203007.690	1.5
4193.6633	28.01	-3.32	135630.630	2.5	138014.530	2.5
4193.9413	14.00	-3.72	59191.072	2.0	61574.814	3.0
4194.0398	26.00	-3.92	32873.623	4.0	35257.309	4.0
4194.7894	19.00	-2.54	31765.370	.5	34148.630	1.5
4194.8070	6.00	-3.51	83986.220	3.0	86369.470	4.0
4195.2119	6.00	-1.95	83986.450	4.0	86369.470	4.0
4195.5587	12.00	-3.39	58575.487	3.0	60958.310	2.0
4195.6133	12.00	-1.13	58575.518	3.0	60958.310	2.0
4195.6133	12.00	-2.48	58575.518	2.0	60958.310	2.0
4195.6345	19.00	-2.84	31765.370	.5	34148.150	.5
4195.9285	14.00	-2.41	61562.477	3.0	63945.090	3.0
4196.0395	6.00	.28	84116.090	1.0	86498.640	2.0
4196.0571	6.00	-2.47	86491.410	1.0	88873.950	2.0
4196.1980	6.00	-.46	84116.090	1.0	86498.550	1.0
4196.2051	18.00	.52	117183.654	2.0	119566.110	3.0
4196.6471	7.00	-4.54	110544.850	2.5	112927.055	1.5
4197.8014	6.00	-1.86	84016.250	4.0	86397.800	3.0
4197.8772	13.00	-.65	44166.417	1.5	46547.924	2.5
4198.4713	21.00	-3.88	36276.760	1.5	38657.930	2.5
4198.4889	20.00	-.91	40537.893	3.0	42919.053	2.0
4198.5277	14.00	-1.87	61563.952	4.0	63945.090	3.0
4198.5947	15.00	-.99	75353.400	1.5	77734.500	2.5
4198.6829	28.01	-3.88	134208.300	2.5	136589.350	3.5
4199.4907	7.00	-2.59	104615.440	1.5	106996.032	1.5
4199.8753	17.00	-1.01	94973.683	.5	97354.057	1.5
4199.9529	28.01	-3.52	118914.340	4.5	121294.670	4.5
4200.0041	18.00	-3.22	122686.200	1.0	125066.501	2.0
4200.1117	22.00	-4.97	41087.310	3.0	43467.550	2.0
4200.1823	12.00	.47	51872.526	1.0	54252.726	2.0
4200.2529	27.00	-1.70	54165.350	1.5	56545.510	2.5
4200.3570	18.00	-4.33	122686.400	2.0	125066.501	2.0
4200.3941	28.01	-3.02	92325.850	3.5	94705.930	3.5
4200.7117	28.01	-4.53	53037.930	2.5	55417.830	3.5
4200.7117	6.00	-.68	84032.150	1.0	86412.050	2.0
4201.1001	6.00	-.68	84103.100	2.0	86482.780	2.0
4201.3120	6.00	.42	84103.100	2.0	86482.660	3.0
4201.4179	13.01	-.98	144964.700	4.0	147344.200	3.0
4201.4179	13.01	-1.68	144964.700	4.0	147344.200	3.0
4201.4179	13.01	-2.81	144964.700	3.0	147344.200	3.0
4201.7534	18.01	-.85	201351.550	2.5	203730.860	1.5
4202.0554	7.00	-3.56	111853.061	1.5	114232.200	1.5
4202.1931	13.00	-.49	44168.863	2.5	46547.924	3.5
4202.1931	13.00	-1.79	44168.863	2.5	46547.924	2.5
4202.6330	18.00	-1.14	121932.908	1.0	124311.720	1.0
4203.0164	14.00	-1.64	60962.105	2.0	63340.700	3.0
4203.0960	27.00	-2.68	46375.170	1.5	48753.720	1.5
4203.2302	18.00	-1.23	114805.180	2.0	117183.654	2.0
4203.2727	25.00	-4.41	55107.520	3.5	57485.970	2.5
4203.6084	7.00	-3.51	110459.760	.5	112838.020	1.5
4203.6084	7.00	-2.07	110459.760	1.5	112838.020	1.5
4203.8524	14.00	-1.32	60496.358	2.0	62874.480	2.0
4204.5101	28.01	-3.73	113407.310	2.5	115785.060	1.5
4204.5101	6.00	-2.18	86416.550	1.0	88794.300	2.0
4204.5649	17.00	-3.37	97807.707	2.5	100185.426	2.5
4204.7753	6.00	-3.73	86389.380	2.0	88766.980	1.0
4204.8461	12.00	.25	51872.526	1.0	54250.086	1.0
4204.9292	17.00	-3.97	97807.707	2.5	100185.220	1.5
4204.9964	22.00	-4.98	28828.510	2.0	31205.985	3.0
4205.1998	6.00	-2.88	85399.810	2.0	87777.170	3.0
4205.2529	6.00	-.14	84121.220	0.0	86498.550	1.0
4205.6067	27.00	-4.78	48201.600	3.5	50578.730	3.5
4206.3145	28.01	-2.47	118803.820	6.5	121180.550	5.5
4206.9234	18.00	-2.46	122282.134	2.0	124658.520	2.0
4206.9871	28.01	-3.10	113408.710	1.5	115785.060	1.5
4207.1058	12.00	-.23	51872.526	1.0	54248.809	0.0
4207.3766	6.00	-2.98	84013.250	3.0	86389.380	2.0
4207.6422	6.00	-2.18	84013.400	2.0	86389.380	2.0
4208.1559	22.00	-.99	41368.860	4.0	43744.550	4.0
4208.6378	14.00	-.43	57541.918	1.0	59917.336	2.0
4209.3874	7.00	-2.28	110385.330	2.5	112760.325	2.5
4209.3874	7.00	-2.15	110385.330	3.5	112760.325	2.5
4209.4848	24.00	-4.87	31048.850	1.0	33423.790	1.0
4209.7685	20.00	-3.42	43933.477	1.0	46308.257	2.0
4210.0237	7.00	-4.60	110385.330	2.5	112759.966	1.5
4210.3358	6.00	-2.16	87077.360	0.0	89451.820	1.0
4210.4777	9.00	-.84	130221.120	1.5	132595.500	2.5
4210.6195	6.00	-3.75	86416.550	1.0	88790.850	1.0
4210.6337	12.00	-1.34	56968.218	3.0	59342.510	2.0
4210.6550	22.00	-2.13	42206.880	2.0	44581.160	2.0
4210.6869	12.00	-1.78	56968.248	2.0	59342.510	1.0
4210.6869	12.00	-2.26	56968.248	2.0	59342.510	2.0
4210.7277	12.00	-2.09	56968.271	1.0	59342.510	1.0
4210.7277	12.00	-3.27	56968.271	1.0	59342.510	2.0
4210.7277	12.00	-1.96	56968.271	1.0	59342.510	0.0
4211.5774	6.00	-3.25	78731.270	1.0	81105.030	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4212.4291	6.00	-2.97	85399.810	2.0	87773.090	2.0
4212.6582	18.00	-4.06	121011.979	1.0	123385.130	0.0
4212.9813	7.00	-3.22	104664.100	1.5	107037.069	2.5
4213.7253	10.01	-.50	322068.520	4.5	324441.070	3.5
4213.8886	7.00	-0.00	104810.330	2.5	107182.788	1.5
4214.2777	26.00	-4.25	51739.964	2.0	54112.203	2.0
4214.8445	28.01	-4.68	116191.470	2.5	118563.390	3.5
4215.0826	7.00	.09	104881.320	3.5	107253.106	2.5
4215.1821	27.00	-4.54	48828.870	2.5	51200.600	1.5
4215.2976	10.00	-.88	169839.450	1.0	172211.115	2.0
4215.4310	24.00	-4.57	44050.870	4.0	46422.460	4.0
4215.6443	28.01	-3.14	118923.200	3.5	121294.670	4.5
4215.7865	15.01	-1.91	103630.600	2.0	106001.990	1.0
4216.3377	14.00	-2.94	61423.230	3.0	63794.310	2.0
4216.4657	26.00	-2.51	48163.427	2.0	50534.435	3.0
4216.5101	17.00	-2.44	92602.700	.5	94973.683	.5
4217.1451	10.00	-.66	164285.882	0.0	166656.508	1.0
4217.3853	55.00	.16	21946.660	0.0	24317.797	0.0
4217.4850	14.00	-2.60	61647.875	2.0	64018.310	1.0
4217.9529	20.00	-4.12	43933.477	1.0	46203.649	2.0
4218.0633	9.00	-2.05	130374.860	1.5	132744.970	1.5
4218.6862	27.00	-2.22	43555.220	3.5	45924.980	3.5
4218.8287	23.00	-2.50	34619.520	2.5	36989.200	2.5
4218.8643	10.00	-1.22	169839.450	1.0	172209.110	1.0
4219.1491	27.00	-4.96	52796.130	2.5	55165.630	2.5
4219.3432	7.00	-.93	111905.609	2.5	114275.000	3.5
4220.1893	18.00	-1.42	122282.134	2.0	124651.050	1.0
4220.2766	14.00	-2.22	60300.860	2.0	62669.727	2.0
4220.7701	28.01	-4.12	130801.330	4.5	133169.920	3.5
4221.1248	7.00	-2.06	111905.609	2.5	114274.000	2.5
4221.2513	28.01	-4.07	98122.630	.5	100490.950	1.5
4221.2798	14.00	-2.52	60300.860	2.0	62669.164	3.0
4221.5543	26.02	-4.21	182412.650	4.0	184780.800	5.0
4221.8039	22.00	-.42	44162.440	4.0	46530.450	4.0
4222.0535	25.00	-4.51	57621.900	1.5	59989.770	1.5
4222.4458	28.01	-2.31	118927.020	4.5	121294.670	4.5
4222.5350	13.01	-3.04	146432.800	4.0	148800.400	4.0
4222.5350	13.01	-3.18	146432.800	4.0	148800.400	4.0
4222.5350	13.01	-1.42	146432.800	5.0	148800.400	4.0
4222.5350	13.01	-4.51	146432.800	5.0	148800.400	4.0
4222.5350	13.01	-1.41	146432.800	5.0	148800.400	4.0
4222.5350	13.01	-4.80	146432.800	4.0	148800.400	5.0
4222.5350	13.01	-3.05	146432.800	5.0	148800.400	5.0
4222.5350	13.01	-3.16	146432.800	5.0	148800.400	5.0
4222.5350	13.01	-1.33	146432.800	6.0	148800.400	5.0
4222.5350	13.01	-1.52	146432.800	4.0	148800.400	3.0
4222.5885	26.00	-4.42	54491.080	3.0	56858.650	2.0
4222.8043	10.00	-.69	169843.820	2.0	172211.269	3.0
4223.0166	10.00	-1.95	169839.450	1.0	172206.780	2.0
4223.0790	10.00	-2.86	169843.820	2.0	172211.115	2.0
4223.1593	6.00	-1.83	86506.700	2.0	88873.950	2.0
4223.2289	9.00	-3.31	128122.719	1.5	130489.930	.5
4223.2664	28.01	-4.07	113225.060	.5	115592.250	1.5
4223.2842	9.02	-2.61	441385.880	1.5	443753.060	2.5
4223.6714	14.00	-.93	60300.860	2.0	62667.823	3.0
4223.7838	15.00	-4.69	77843.300	1.5	80210.200	.5
4223.9801	28.01	-2.72	118874.110	3.5	121240.900	3.5
4224.1586	6.00	-2.27	84116.090	1.0	86482.780	2.0
4224.2835	22.00	-4.03	39686.100	2.0	42052.720	3.0
4224.2996	7.00	-.74	107445.622	1.5	109812.233	.5
4224.6584	6.00	-.47	84103.100	2.0	86469.510	3.0
4224.8191	28.01	-4.64	128867.000	3.5	131233.320	4.5
4224.9815	7.00	-3.22	110544.850	2.5	112911.079	3.5
4225.6584	10.01	-4.62	322075.340	3.5	324441.190	2.5
4225.7834	7.00	-3.81	110544.850	2.5	112910.630	2.5
4226.2140	18.00	-1.23	121191.920	2.0	123557.459	3.0
4226.3015	22.00	-2.74	41714.350	2.0	44079.840	2.0
4226.4266	23.00	-3.02	37025.600	3.5	39391.020	4.5
4226.6589	10.00	-2.79	169843.820	2.0	172209.110	1.0
4227.1056	7.00	-1.89	104615.440	1.5	106980.480	.5
4227.3988	22.00	-4.05	33700.874	4.0	36065.750	3.0
4228.1783	9.02	-1.28	441406.460	3.5	443770.900	3.5
4228.5896	20.02	-4.97	371061.300	3.0	373425.510	4.0
4228.7148	20.02	-3.40	371061.370	4.0	373425.510	4.0
4228.7685	23.00	-3.66	34619.520	2.5	36983.630	1.5
4228.9348	18.00	-.23	118906.665	2.0	121270.682	2.0
4228.9617	26.00	-4.60	48516.150	1.0	50880.152	1.0
4229.2873	23.00	-4.00	36763.410	2.5	39127.230	1.5
4229.3588	6.00	-1.82	78199.070	2.0	80562.850	1.0
4229.8957	22.00	-4.48	40670.600	2.0	43034.080	1.0
4230.0102	18.00	-1.51	123468.034	1.0	125831.450	0.0
4230.5759	13.01	-.21	142601.600	3.0	144964.700	3.0
4230.5759	13.01	1.02	142601.600	3.0	144964.700	4.0
4230.5759	13.01	-.13	142601.600	3.0	144964.700	4.0
4230.7549	15.00	-4.66	72741.600	1.5	75104.600	.5
4230.8265	10.00	-1.02	169843.820	2.0	172206.780	2.0
4230.8301	7.00	-3.55	110498.390	3.5	112861.348	4.5
4231.7758	10.00	-4.94	169839.450	1.0	172201.880	1.0
4232.0032	17.00	-2.88	97807.707	2.5	100170.010	2.5
4232.3078	17.00	-2.58	97807.707	2.5	100169.840	3.5
4232.3669	26.02	-4.44	182418.700	4.0	184780.800	5.0
4232.9404	22.00	-2.95	41871.870	2.0	44233.650	3.0
4233.1483	18.00	-1.37	114821.990	3.0	117183.654	2.0
4233.4423	15.00	-3.39	77843.300	1.5	80204.800	1.5
4233.4835	10.00	-1.58	169843.820	2.0	172205.297	3.0
4233.5032	26.00	-4.42	49242.680	2.0	51604.146	3.0
4233.6108	18.00	-3.81	122282.134	2.0	124643.540	1.0
4233.6216	6.00	-3.09	84036.400	2.0	86397.800	3.0
4234.5181	15.00	-3.52	77843.900	2.5	80204.800	1.5
4234.5181	10.00	-2.15	169839.450	1.0	172200.350	0.0
4234.6437	29.01	-2.09	137034.970	3.0	139395.800	4.0
4235.9553	28.00	-.93	51343.800	2.0	53703.899	1.0
4235.9894	14.00	-1.29	61423.230	3.0	63783.310	4.0
4236.6715	15.00	-1.35	76762.400	.5	79122.100	1.5
4236.6751	7.00	-4.03	110501.650	4.5	112861.348	4.5
4236.8691	23.00	-2.74	39398.820	3.5	41758.410	3.5
4236.9104	17.00	-4.99	97842.783	1.5	100202.350	.5
4237.1115	26.00	-4.64	45333.834	2.0	47693.289	3.0
4237.2641	29.01	-2.49	134675.600	2.0	137034.970	3.0
4237.4078	28.01	-4.01	103663.500	1.5	106022.790	.5
4237.5695	24.00	-4.22	36552.130	3.0	38911.330	3.0
4238.4444	26.00	-4.64	45061.287	3.0	47420.000	2.0
4238.7176	18.00	-4.19	122707.940	3.0	125066.501	2.0
4238.8092	17.00	-2.31	97807.707	2.5	100166.217	3.5
4238.8272	29.01	-2.23	133594.050	3.0	135952.550	2.0
4238.8434	26.00	-4.92	51708.330	2.0	54066.821	2.0
4239.0986	18.00	-1.43	114641.040	2.0	116999.389	2.0
4239.1489	18.00	-2.02	122708.180	2.0	125066.501	2.0
4239.4114	7.00	-1.94	110402.150	3.5	112760.325	2.5
4239.6181	10.00	-1.71	169843.820	2.0	172201.880	1.0
4240.2510	7.00	-2.78	104825.080	2.5	107182.788	1.5
4240.2654	19.02	-3.84	242165.300	1.5	244523.000	2.5
4240.5173	22.00	-2.48	42018.010	5.0	44375.570	5.0
4240.9849	8.01	-2.67	258601.700	1.5	260959.000	1.5
4241.1649	15.00	-1.77	78069.000	1.5	80426.200	1.5
4241.2963	17.00	-2.62	94827.150	2.5	97184.277	3.5
4241.9927	25.00	.71	50904.680	2.5	53261.420	3.5
4242.0539	26.00	-4.54	54066.570	4.0	56423.276	4.0
4242.1439	7.00	-4.25	110470.244	2.5	112826.900	3.5
4242.1439	7.00	-4.33	110470.244	2.5	112826.900	2.5
4242.6948	22.00	-3.00	42019.220	6.0	44375.570	5.0
4242.9289	6.00	-3.24	84013.250	3.0	86369.470	4.0
4243.0000	2.00	-.09	191445.000	0.0	193801.823	0.0
4243.4350	7.00	-3.29	111853.061	1.5	114209.000	.5
4243.5862	7.00	-3.36	110404.470	1.5	112760.325	2.5
4243.6763	7.00	-4.06	110404.520	2.5	112760.325	2.5
4244.3231	7.00	-2.92	110404.520	2.5	112759.966	1.5
4244.4781	17.00	-.67	100170.980	1.5	102526.340	2.5
4244.8746	28.01	-3.50	118939.530	5.5	121294.670	4.5
4245.0368	27.00	-4.94	50105.050	1.5	52460.100	2.5
4245.3793	28.01	-3.72	103653.030	3.5	106007.890	2.5
4245.4154	26.00	-2.06	33412.706	3.0	35767.546	4.0
4245.5181	17.00	-3.45	85917.937	.5	88272.720	.5
4246.0645	6.00	-3.30	86519.470	1.0	88873.950	2.0
4246.4973	9.02	-2.70	441276.720	2.5	443630.960	3.5
4246.5334	28.01	-4.54	133973.330	2.5	136327.550	1.5
4246.8599	7.00	-2.92	104683.030	2.5	107037.069	2.5
4246.9122	28.01	-4.90	130815.910	3.5	133169.920	3.5
4247.0331	22.00	-4.77	37172.947	1.0	39526.890	2.0
4247.0746	6.00	-2.71	85399.810	2.0	87753.730	2.0
4247.1107	15.00	-.40	77946.600	2.5	80300.500	3.5
4247.4896	28.01	-4.62	118874.110	3.5	121227.800	2.5
4247.6340	6.00	-.90	84015.860	5.0	86369.470	4.0
4248.0293	7.00	-2.88	111905.609	2.5	114259.000	1.5
4248.3379	6.00	-2.59	84016.250	4.0	86369.470	4.0
4248.3380	28.01	-3.13	100389.520	2.5	102742.740	1.5
4248.5727	6.00	-3.00	84036.290	1.0	86389.380	2.0
4248.7713	6.00	-3.24	84036.400	2.0	86389.380	2.0
4249.0404	26.00	-4.74	49108.876	4.0	51461.707	4.0
4249.5298	23.00	-2.89	36989.200	2.5	39341.760	3.5
4250.1621	26.01	-1.49	85184.690	4.5	87536.900	3.5
4250.1982	18.01	-4.97	201781.790	2.5	204133.980	2.5
4250.2416	17.00	-3.40	98693.220	2.5	101045.386	1.5
4250.3790	7.00	-2.79	110485.930	1.5	112838.020	1.5
4250.5236	7.00	-2.84	110486.010	2.5	112838.020	1.5
4251.3912	27.00	-3.15	44394.470	3.5	46746.000	2.5
4251.6443	12.00	-.90	58477.020	1.0	60828.410	2.0
4251.7166	29.01	-.39	137044.450	4.0	139395.800	4.0
4252.1687	28.01	-4.34	52205.950	3.5	54557.050	4.5
4252.5305	18.00	-3.45	122514.290	1.0	124865.190	2.0
4252.8742	28.01	-2.19	118877.090	1.5	121227.800	2.5
4252.9828	12.00	-1.37	58477.760	2.0	60828.410	2.0
4253.0189	28.01	-4.53	133850.830	3.5	136201.460	3.5
4253.1419	18.00	-1.23	118906.665	2.0	121257.227	1.0
4253.3809	6.00	-2.89	86416.550	1.0	88766.980	1.0
4253.5256	14.00	-2.99	61423.230	3.0	63773.580	2.0
4254.0505	14.00	-2.45	61423.230	3.0	63773.290	3.0
4254.2188	20.00	-.85	46479.813	1.0	48829.780	2.0
4254.5429	26.00	-4.82	50880.152	1.0	53229.940	1.0
4254.7023	13.01	-.75	144939.100	1.0	147288.800	0.0
4255.2456	15.00	-.79	75484.400	2.5	77833.800	1.5
4255.5716	7.00	-4.57	110521.050	1.5	112870.270	.5
4255.7527	6.00	-3.18	84013.400	2.0	86362.520	1.0
4256.5138	6.00	-2.60	87103.120	1.0	89451.820	1.0
4256.5863	28.01	-4.64	128869.890	5.5	131218.550	6.5
4256.6932	18.00	-1.50	122717.900	3.0	125066.501	2.0
4256.7132	9.02	-4.19	441276.720	2.5	443625.310	2.5
4257.3113	14.00	-2.40	60856.630	1.0	63204.890	2.0
4258.1328	7.00	-3.39	110459.760	1.5	112807.567	.5
4258.1328	7.00	-4.95	110459.760	.5	112807.567	.5
4258.2181	9.02	-4.58	466893.650	5.5	469241.410	5.5
4258.2760	10.00	-4.79	169482.972	0.0	171830.700	1.0
4258.3522	14.00	-2.70	61597.404	3.0	63945.090	3.0
4259.6968	14.00	-3.34	61598.145	2.0	63945.090	3.0
4260.0144	28.01	.64	119773.600	6.5	122120.370	5.5
4260.3230	9.02	-3.26	441406.460	3.5	443753.060	2.5
4260.5953	14.00	-1.75	61447.860	2.0	63794.310	2.0
4260.8677	6.00	-1.75	81769.790	2.0	84116.090	1.0
4261.0366	18.00	-2.63	114805.180	2.0	117151.387	1.0
4261.1038	29.01	-.52	138898.430	1.0	141244.600	1.0
4262.0302	14.00	-2.02	61447.860	2.0	63793.520	1.0
4262.3937	22.00	-2.73	43467.550	2.0	45813.010	2.0
4262.8190	18.00	-1.77	121470.304	0.0	123815.530	1.0
4263.0298	6.00	-2.19	86449.190	3.0	88794.300	2.0
4263.3189	17.00	-2.48	85735.091	1.5	88080.042	2.5
4263.6844	29.01	-4.48	117747.450	3.0	120092.200	2.0
4264.5391	6.00	-2.29	87103.120	1.0	89447.400	2.0
4264.6847	15.00	-1.18	76875.400	1.5	79219.600	.5
4264.7029	9.02	-3.40	442278.930	2.5	444623.120	3.5
4264.8939	14.00	-.45	56690.903	2.0	59034.988	3.0
4265.5217	22.00	-2.83	41818.700	4.0	44162.440	4.0
4265.5945	29.01	-2.84	118532.150	2.0	120875.850	2.0
4265.5945	13.01	-1.43	144939.100	1.0	147282.800	1.0
4265.5945	13.01	-.96	144939.100	1.0	147282.800	2.0
4266.3044	14.00	-4.46	61647.360	1.0	63990.670	2.0
4266.6322	18.00	-.96	122514.290	1.0	124857.420	2.0
4266.9054	18.00	-2.54	122514.290	1.0	124857.270	1.0
4266.9418	28.01	-3.65	118897.940	2.5	121240.900	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4266.9801	7.00	-1.52	111853.061	1.5	114196.000	2.5
4267.2332	29.01	-2.50	136799.300	2.0	139142.100	2.0
4267.2423	14.00	-4.58	61647.875	2.0	63990.670	2.0
4267.6248	10.00	-4.24	169488.415	1.0	171831.000	0.0
4267.6248	10.00	-4.24	169488.415	1.0	171831.000	0.0
4267.6704	28.01	-3.64	98276.700	4.5	100619.260	4.5
4267.8945	17.00	-4.10	97842.783	1.5	100185.220	1.5
4267.9783	7.00	-1.92	111905.609	2.5	114248.000	3.5
4268.1714	10.00	-4.92	169488.415	1.0	171830.700	1.0
4268.2480	26.00	-4.70	52213.207	3.0	54555.450	4.0
4268.3081	9.02	-1.03	442147.190	2.5	444489.400	2.5
4268.4922	17.00	-2.26	92140.127	1.5	94482.236	2.5
4268.6325	7.00	-4.44	104654.000	.5	106996.032	1.5
4268.7054	26.00	-3.68	48361.920	4.0	50703.912	5.0
4269.3726	26.00	-3.46	51770.577	3.0	54112.203	2.0
4269.7300	10.00	-4.00	171009.340	1.0	173350.770	1.0
4270.0199	7.00	-3.31	110459.760	1.5	112801.031	1.5
4270.6238	6.00	-2.27	83986.220	3.0	86327.160	3.0
4270.7350	14.00	-2.80	60645.441	2.0	62986.320	2.0
4270.8244	28.01	-2.25	118774.760	.5	121115.590	1.5
4270.9047	14.00	-1.70	57295.881	0.0	59636.667	1.0
4270.9339	28.01	-3.97	101740.270	3.5	104081.040	4.5
4270.9886	27.00	-2.01	45876.580	2.5	48217.320	3.5
4271.0434	6.00	-1.71	83986.450	4.0	86327.160	3.0
4271.2988	20.02	-3.52	371061.300	3.0	373401.870	3.0
4271.3919	14.00	-2.57	60645.441	2.0	62985.960	1.0
4271.5890	17.00	-.74	94663.670	1.5	97004.081	1.5
4271.9614	26.00	-3.47	44676.963	4.0	47017.170	3.0
4272.1020	10.00	-3.30	171009.340	1.0	173349.470	2.0
4272.1476	18.00	-1.78	121165.431	3.0	123505.536	2.0
4272.4507	7.00	-2.13	111853.061	1.5	114193.000	1.5
4272.7045	28.01	-1.23	134053.050	2.5	136392.850	3.5
4272.8871	15.00	-3.79	77843.300	1.5	80183.000	2.5
4272.9054	14.00	-.88	61423.230	3.0	63762.920	4.0
4272.9784	28.01	-4.87	117573.680	4.5	119913.330	4.5
4273.0332	7.00	-3.77	110498.400	2.5	112838.020	1.5
4273.7091	22.00	-3.81	41823.190	3.0	44162.440	4.0
4273.9832	15.00	-2.87	77843.900	2.5	80183.000	2.5
4274.2207	14.00	-2.49	61423.230	3.0	63762.200	3.0
4274.4034	27.00	-2.33	43537.710	1.5	45876.580	2.5
4274.8786	6.00	-2.35	87113.210	2.0	89451.820	1.0
4275.1729	7.00	-4.92	110486.010	2.5	112824.459	2.5
4275.2826	14.00	-3.15	61303.381	3.0	63641.770	3.0
4276.1751	14.00	-2.70	59109.959	3.0	61447.860	2.0
4276.5428	14.00	-1.89	62545.100	1.0	64882.800	2.0
4276.9325	14.00	-4.64	61304.283	2.0	63641.770	3.0
4277.3057	22.00	-4.04	39715.437	3.0	42052.720	3.0
4277.5125	25.00	-2.60	55368.660	1.5	57705.830	.5
4277.5674	28.01	-4.28	118774.760	.5	121111.900	.5
4277.8823	14.00	-3.53	59110.892	2.0	61447.860	2.0
4278.0068	12.02	-4.40	606774.500	5.0	609111.400	5.0
4278.3363	14.00	-3.34	61305.050	3.0	63641.770	3.0
4278.7391	28.01	-5.00	134252.850	3.5	136589.350	3.5
4279.6549	12.02	-4.54	606775.400	4.0	609111.400	4.0
4280.5895	6.00	-3.37	85399.810	2.0	87735.300	1.0
4281.1394	6.00	-1.77	87113.210	2.0	89448.400	3.0
4281.3832	14.00	-1.58	61306.713	4.0	63641.770	3.0
4281.8545	26.02	-4.31	182444.700	3.0	184779.500	4.0
4282.9735	6.00	-2.46	87113.210	2.0	89447.400	2.0
4283.2340	17.00	-4.72	99200.382	3.5	101534.430	4.5
4283.4506	8.01	-4.47	253791.870	1.5	256125.800	2.5
4283.6892	26.02	-4.87	182444.700	3.0	184778.500	3.0
4284.0564	24.00	-4.82	36577.730	4.0	38911.330	3.0
4284.2033	14.02	-.13	242537.950	0.0	244871.470	1.0
4284.5888	6.00	-2.30	81769.790	2.0	84103.100	2.0
4285.1397	7.00	-.74	104144.790	.5	106477.800	.5
4285.5880	10.00	-2.19	169748.150	1.0	172080.916	1.0
4285.8415	17.00	-2.45	99200.382	3.5	101533.010	2.5
4286.1998	28.00	-2.44	42790.027	2.0	45122.460	1.0
4286.8119	13.01	-.84	142607.000	2.0	144939.100	1.0
4286.9037	18.01	-.31	202253.590	1.5	204585.640	2.5
4287.1207	7.00	-3.04	104664.100	1.5	106996.032	1.5
4287.1281	20.00	-3.78	45425.358	1.0	47757.286	2.0
4287.4921	25.00	-2.74	57485.970	2.5	59817.700	2.5
4288.0622	6.00	-1.53	83986.220	3.0	86317.640	2.0
4288.1210	26.00	-4.28	44676.963	4.0	47008.351	5.0
4290.9333	28.01	-1.89	118897.940	2.5	121227.800	2.5
4290.9886	9.02	-1.14	464491.890	3.5	466821.720	3.5
4291.2281	15.00	-.74	77843.300	1.5	80173.000	.5
4291.4822	26.00	-4.82	29356.780	2.0	31686.342	2.0
4291.7438	6.00	-2.92	86506.700	2.0	88836.120	3.0
4292.6302	7.00	-1.49	111853.061	1.5	114182.000	2.5
4292.8864	18.00	-3.20	122329.720	3.0	124658.520	2.0
4293.0155	17.00	-3.92	92140.127	1.5	94468.857	.5
4293.0708	12.02	-1.64	582134.800	4.0	584463.500	4.0
4293.2920	23.00	-1.85	34747.060	3.5	37075.640	4.5
4293.5686	15.01	-4.87	107923.570	2.0	110252.000	1.0
4293.6239	56.01	-.08	46154.890	0.0	48483.925	0.0
4293.6977	6.00	-1.79	87103.120	1.0	89431.480	2.0
4294.2140	14.00	-1.04	62596.320	2.0	64924.400	3.0
4294.5093	14.00	-1.88	61617.170	4.0	63945.090	3.0
4294.7000	2.00	.43	183237.000	0.0	185565.451	0.0
4294.9335	6.00	-4.52	86317.640	2.0	88645.330	1.0
4294.9335	6.00	-1.61	86317.640	2.0	88645.330	2.0
4295.0996	12.02	-.02	582134.800	4.0	584462.400	5.0
4295.3949	21.00	-3.54	36330.490	2.5	38657.930	2.5
4295.7880	17.00	-3.66	97842.783	1.5	100170.010	2.5
4295.9486	28.01	-4.89	134271.590	4.5	136598.730	5.5
4296.0225	26.00	-3.97	45428.385	4.0	47755.485	3.0
4296.7537	26.00	-4.42	49135.003	3.0	51461.707	4.0
4296.9624	7.00	-4.10	111905.609	2.5	114232.200	1.5
4297.0196	28.01	-2.62	118914.340	4.5	121240.900	3.5
4297.1673	7.00	-1.99	104654.000	.5	106980.480	.5
4297.6292	6.00	-2.90	84036.290	1.0	86362.520	1.0
4297.7585	29.01	-4.85	114000.000	3.0	116326.160	3.0
4297.7585	18.01	-.70	192556.840	2.5	194883.000	3.5
4297.7641	14.00	-2.11	60487.103	1.0	62813.260	1.0
4297.8325	6.00	-3.66	84036.400	2.0	86362.520	1.0
4297.9266	7.00	-3.41	110498.390	3.5	112824.459	2.5
4297.9451	7.00	-3.60	110498.400	2.5	112824.459	2.5
4298.0246	10.00	-4.32	169502.284	3.0	171828.300	2.0
4298.1466	18.00	-1.97	120188.340	1.0	122514.290	1.0
4298.4755	7.00	-3.42	105119.850	1.5	107445.622	1.5
4298.5716	14.00	-3.38	61447.860	2.0	63773.580	2.0
4298.7379	18.00	-.87	120188.660	2.0	122514.290	1.0
4299.1076	14.00	-.63	61447.860	2.0	63773.290	3.0
4300.7999	7.00	-2.89	110473.210	4.5	112797.725	3.5
4300.8276	13.01	.15	145126.500	2.0	147451.000	3.0
4301.5494	28.01	-4.77	134274.620	5.5	136598.730	5.5
4301.9047	17.00	-2.03	99200.382	3.5	101524.300	2.5
4301.9269	18.00	-2.26	123468.034	1.0	125791.940	2.0
4302.5954	22.00	-4.59	28882.440	3.0	31205.985	3.0
4302.6972	22.00	-3.89	43744.550	4.0	46068.040	4.0
4303.1491	10.00	-1.48	169748.150	1.0	172071.396	2.0
4303.4417	7.00	-2.92	104859.700	1.5	107182.788	1.5
4303.5122	9.02	-2.10	442147.190	2.5	444470.240	1.5
4304.2366	7.00	-2.41	110501.800	3.5	112824.459	2.5
4304.7722	22.00	-2.27	41757.470	3.0	44079.840	2.0
4304.9762	26.02	-3.05	198333.760	6.0	200656.020	6.0
4305.2728	13.01	-1.27	145128.900	3.0	147451.000	3.0
4305.2728	13.01	-1.68	145128.900	3.0	147451.000	4.0
4305.2728	13.01	.17	145128.900	3.0	147451.000	4.0
4305.8847	22.00	-4.00	39302.360	4.0	41624.130	4.0
4305.9774	28.01	.49	136519.280	4.5	138841.000	3.5
4306.0887	28.01	-4.27	99418.610	3.5	101740.270	3.5
4306.1314	7.00	-2.40	110485.930	1.5	112807.567	.5
4306.5339	28.01	-4.32	134274.620	5.5	136596.040	6.5
4306.6119	17.00	-2.02	99200.382	3.5	101521.760	3.5
4306.6452	27.00	-2.56	43555.220	3.5	45876.580	2.5
4306.7379	14.00	-3.98	59190.460	1.0	61511.770	1.0
4306.8864	23.00	-2.17	39597.010	4.5	41918.240	5.5
4307.1276	29.01	.32	138883.000	4.0	141204.100	3.0
4307.3986	17.00	-.48	99200.382	3.5	101521.336	4.5
4307.7401	9.02	-2.68	464223.930	1.5	466544.700	1.5
4307.8737	14.00	-1.54	59191.072	2.0	61511.770	1.0
4307.9443	6.00	-1.61	86317.640	2.0	88638.300	2.0
4307.9443	6.00	-1.18	86317.640	2.0	88638.300	3.0
4308.5941	25.00	-4.85	44978.980	1.5	47299.290	.5
4308.6869	14.03	.54	330439.660	.5	332759.920	1.5
4308.7983	29.01	-1.26	136799.300	2.0	139119.500	3.0
4308.8930	7.00	-1.48	104716.920	3.5	107037.069	2.5
4309.7085	28.01	-4.14	51045.460	4.5	53365.170	4.5
4309.8943	28.01	-4.76	116312.340	1.5	118631.950	.5
4310.0113	14.00	-1.98	60487.103	1.0	62806.650	0.0
4310.2102	26.02	-3.80	198336.580	5.0	200656.020	6.0
4310.7305	18.01	-4.29	211572.270	1.5	213891.430	2.5
4310.8049	18.01	-.71	192712.000	1.5	195031.120	2.5
4311.0280	15.00	-0.00	75813.600	.5	78132.600	.5
4311.2139	13.01	-1.14	145132.100	4.0	147451.000	4.0
4311.2139	13.01	-1.28	145132.100	4.0	147451.000	4.0
4311.2139	13.01	.39	145132.100	4.0	147451.000	5.0
4311.2139	13.01	-2.70	145132.100	4.0	147451.000	3.0
4311.4928	6.00	-1.91	85399.810	2.0	87718.560	1.0
4312.3855	6.00	-1.78	87113.210	2.0	89431.480	2.0
4312.5715	6.00	-4.00	86327.160	3.0	88645.330	2.0
4313.4461	28.01	-3.05	118923.200	3.5	121240.900	3.5
4313.5149	8.00	-1.42	105788.443	1.0	108106.106	0.0
4313.5205	8.00	-1.07	105788.443	1.0	108106.103	1.0
4313.5317	8.00	-1.18	105788.443	1.0	108106.097	2.0
4313.8258	8.00	-1.55	105788.607	2.0	108106.103	1.0
4313.8369	8.00	-.96	105788.607	2.0	108106.097	2.0
4313.8518	8.00	-.75	105788.607	2.0	108106.089	3.0
4313.8555	24.00	-4.43	44050.870	4.0	46368.350	3.0
4313.8611	17.00	-3.04	92151.380	.5	94468.857	.5
4314.3228	8.00	-1.90	105788.868	3.0	108106.097	2.0
4314.3377	8.00	-1.05	105788.868	3.0	108106.089	3.0
4314.3471	8.00	-.47	105788.868	3.0	108106.084	4.0
4314.5630	13.01	-.70	146414.500	4.0	148731.600	3.0
4314.5630	13.01	-2.22	146414.500	4.0	148731.600	3.0
4314.5630	13.01	-1.99	146414.500	3.0	148731.600	3.0
4314.8050	7.00	-4.88	110521.050	1.5	112838.020	1.5
4314.8982	18.01	-4.47	200880.520	3.5	203197.440	3.5
4314.9317	14.00	-1.50	60496.358	2.0	62813.260	1.0
4315.0286	23.00	-3.03	36983.630	1.5	39300.480	2.5
4315.4942	22.00	-2.22	41917.050	4.0	44233.650	3.0
4315.9786	24.00	-3.45	31355.210	2.0	33671.550	3.0
4315.9786	6.00	-.55	86317.640	2.0	88633.980	3.0
4316.0904	28.01	-4.93	98276.700	4.5	100592.980	3.5
4316.1836	28.01	-4.88	118874.110	3.5	121190.340	4.5
4316.3140	23.00	-2.27	37025.600	3.5	39341.760	3.5
4316.7613	26.02	-4.53	199603.610	4.0	201919.530	4.0
4317.0037	28.01	-4.74	117573.680	4.5	119889.470	5.5
4317.0484	18.00	-1.79	123468.034	1.0	125783.800	1.0
4317.4082	22.00	-3.93	37325.407	2.0	39640.980	3.0
4317.5444	18.01	-1.35	200151.640	1.5	202467.140	1.5
4317.6189	23.00	-4.31	36925.880	3.5	39241.340	2.5
4317.7681	23.00	-2.15	37075.640	4.5	39391.020	4.5
4317.8651	10.00	-4.77	169482.972	0.0	171798.300	1.0
4317.8651	10.00	-4.77	169482.972	0.0	171798.300	1.0
4317.9733	28.01	-4.10	133973.330	2.5	136288.600	2.5
4318.2885	7.00	-4.77	110485.930	1.5	112801.031	1.5
4318.4376	7.00	-4.18	110486.010	2.5	112801.031	1.5
4318.5888	27.00	-4.04	49847.080	2.5	52162.020	3.5
4319.0646	10.00	-4.05	169488.415	1.0	171803.100	2.0
4319.0646	10.00	-4.05	169488.415	1.0	171803.100	2.0
4319.0739	18.01	-2.06	201030.300	.5	203344.980	1.5
4319.1224	14.00	-3.56	59917.336	2.0	62231.990	2.0
4319.2885	14.00	-2.33	60815.925	2.0	63130.490	1.0
4319.7084	14.00	-1.40	61447.860	2.0	63762.200	3.0
4320.1041	7.00	-4.19	110498.390	3.5	112812.518	2.5
4320.2273	26.00	-2.16	33765.291	2.0	36079.353	3.0
4320.3244	10.00	-3.71	169516.990	1.0	171831.000	0.0
4320.3244	10.00	-3.71	169516.990	1.0	171831.000	0.0
4320.4365	28.01	-4.25	112686.300	2.5	115000.250	3.5
4320.5112	6.00	-3.40	84013.250	3.0	86327.160	3.0
4320.5672	28.01	-2.90	118927.020	4.5	121240.900	3.5
4320.7912	6.00	-4.43	84013.400	2.0	86327.160	3.0
4320.8846	10.00	-4.93	169516.990	1.0	171830.700	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4321.0601	18.00	-2.04	121191.920	2.0	123505.536	2.0
4321.1461	6.00	-1.94	85399.810	2.0	87713.380	3.0
4321.2395	9.02	-3.09	464223.930	1.5	466537.450	.5
4321.3889	28.01	-4.94	134964.780	1.5	137278.220	1.5
4321.7047	14.00	-2.70	59109.959	3.0	61423.230	3.0
4322.2072	7.00	-1.59	104683.030	2.5	106996.032	1.5
4322.3418	14.00	-4.51	61305.670	1.0	63618.600	0.0
4322.3586	12.00	-3.41	58442.843	3.0	60755.764	2.0
4322.3586	12.00	-2.08	58442.843	3.0	60755.764	3.0
4322.3586	12.00	-2.27	58442.843	3.0	60755.764	3.0
4322.3586	12.00	-.80	58442.843	3.0	60755.764	4.0
4322.3773	12.00	-2.04	58442.853	2.0	60755.764	2.0
4322.3773	12.00	-1.24	58442.853	2.0	60755.764	3.0
4322.3773	12.00	-1.76	58442.853	2.0	60755.764	3.0
4322.3866	18.00	-.50	122036.134	4.0	124349.040	3.0
4322.4166	12.00	-1.13	58442.874	1.0	60755.764	2.0
4323.1455	20.00	-1.22	46258.380	1.0	48570.880	1.0
4323.1455	20.00	-.91	46258.380	1.0	48570.880	2.0
4323.4072	27.00	-4.30	44394.470	3.5	46706.830	3.5
4323.4484	14.00	-3.63	59110.892	2.0	61423.230	3.0
4323.9121	24.00	-4.11	46349.500	2.0	48661.590	3.0
4325.2216	6.00	-2.68	84103.100	2.0	86414.490	3.0
4325.3096	12.00	-1.31	58575.487	3.0	60886.830	2.0
4325.3096	12.00	-2.20	58575.487	3.0	60886.830	3.0
4325.3676	12.00	-2.13	58575.518	2.0	60886.830	2.0
4325.3676	12.00	-1.23	58575.518	2.0	60886.830	1.0
4325.3676	12.00	-1.88	58575.518	3.0	60886.830	2.0
4325.3676	12.00	-3.50	58575.518	2.0	60886.830	3.0
4325.3676	12.00	-2.33	58575.518	3.0	60886.830	3.0
4325.4274	23.00	-2.40	36989.200	2.5	39300.480	2.5
4325.6895	6.00	-2.70	86327.160	3.0	88638.300	2.0
4325.6895	6.00	-3.90	86327.160	3.0	88638.300	3.0
4326.1199	6.00	-1.66	84016.250	4.0	86327.160	3.0
4326.4795	7.00	-3.66	110501.800	3.5	112812.518	2.5
4327.5994	22.00	-2.43	43583.140	3.0	45893.260	3.0
4327.6181	20.00	-2.39	46260.770	2.0	48570.880	1.0
4327.6181	20.00	-1.39	46260.770	2.0	48570.880	2.0
4327.6181	20.00	-.47	46260.770	2.0	48570.880	3.0
4327.9385	7.00	-1.86	111853.061	1.5	114163.000	1.5
4328.4613	28.01	-4.40	134286.380	4.5	136596.040	5.5
4328.6506	14.00	-2.67	60645.441	2.0	62955.000	2.0
4329.1998	18.00	-2.03	123468.034	1.0	125777.300	1.0
4329.5223	56.01	-.18	45949.496	0.0	48259.220	0.0
4329.5973	14.00	-2.94	59917.336	2.0	62226.390	1.0
4329.6629	14.00	-4.09	60645.441	2.0	62954.460	3.0
4329.7173	10.01	-4.20	319111.700	3.5	321420.690	2.5
4329.7923	6.00	-1.65	84103.100	2.0	86412.050	2.0
4329.9236	6.00	-2.84	84103.100	2.0	86411.980	3.0
4330.8240	6.00	-3.21	85399.810	2.0	87708.210	2.0
4330.8990	22.00	-4.83	39149.260	2.0	41457.620	3.0
4330.9515	14.00	.35	57198.027	3.0	59506.359	2.0
4330.9890	12.00	-.90	58578.518	4.0	60886.830	3.0
4331.1204	14.00	-.62	60010.458	1.0	62318.700	0.0
4331.8035	14.00	-1.71	57328.789	1.0	59636.667	1.0
4332.9262	6.00	-2.97	87218.260	2.0	89525.540	1.0
4333.0389	24.00	-2.47	31364.330	3.0	33671.550	3.0
4333.5666	7.00	-1.60	111853.061	1.5	114160.000	2.5
4333.5666	7.00	-2.40	111853.061	1.5	114160.000	1.5
4333.6211	6.00	-1.65	86327.160	3.0	88634.070	4.0
4333.7903	6.00	-1.34	86327.160	3.0	88633.980	3.0
4334.3877	14.00	-.95	60496.358	2.0	62802.860	3.0
4334.6546	28.01	-3.99	116468.400	1.5	118774.760	.5
4335.6697	10.00	-4.15	171043.690	2.0	173349.510	3.0
4335.8107	28.00	-4.18	40484.282	2.0	42790.027	2.0
4336.0270	29.01	-3.50	118484.000	3.0	120789.630	4.0
4337.3250	9.00	-2.39	128184.990	.5	130489.930	.5
4337.5508	20.02	-4.93	371120.690	4.0	373425.510	4.0
4337.7748	26.00	-4.76	51762.120	2.0	54066.821	2.0
4337.9649	28.01	-1.92	118923.200	3.5	121227.800	2.5
4338.2472	20.02	-3.40	371121.060	5.0	373425.510	4.0
4338.2811	10.00	-4.88	169526.268	2.0	171830.700	1.0
4338.2849	18.01	-1.21	192556.840	2.5	194861.270	2.5
4338.6426	6.00	-2.64	84013.400	2.0	86317.640	2.0
4338.6991	14.03	.23	330439.660	.5	332743.870	.5
4338.7933	14.00	-.64	60621.640	0.0	62925.800	1.0
4338.8310	6.00	-3.49	87218.260	2.0	89522.400	2.0
4339.1699	22.00	-3.71	40844.190	3.0	43148.150	3.0
4339.6597	13.01	-.23	146496.700	2.0	148800.400	3.0
4339.6672	10.00	-3.64	170296.004	1.0	172599.700	0.0
4339.6672	10.00	-3.64	170296.004	1.0	172599.700	0.0
4340.3568	15.00	-3.22	68088.270	1.5	70391.600	2.5
4341.1860	6.00	-2.82	86491.410	1.0	88794.300	2.0
4341.7328	13.01	-1.66	146497.800	3.0	148800.400	3.0
4341.7328	13.01	-2.34	146497.800	3.0	148800.400	4.0
4341.7328	13.01	-.18	146497.800	3.0	148800.400	4.0
4341.9308	28.00	-.99	47030.148	3.0	49332.643	4.0
4342.3174	22.00	-4.35	39686.100	2.0	41988.390	3.0
4342.8041	10.00	-4.72	169526.268	2.0	171828.300	2.0
4342.9739	7.00	-2.66	105143.680	2.5	107445.622	1.5
4343.2890	18.00	-2.52	114641.040	2.0	116942.815	3.0
4343.3192	20.00	.13	41679.008	1.0	43980.767	1.0
4343.4021	12.00	-.78	57017.078	0.0	59318.793	1.0
4343.4305	23.00	-2.54	39127.230	1.5	41428.930	2.5
4343.9023	29.01	-2.23	134743.000	4.0	137044.450	4.0
4344.3742	13.01	-1.52	146499.200	4.0	148800.400	4.0
4344.3742	13.01	-1.66	146499.200	4.0	148800.400	4.0
4344.3742	13.01	0.00	146499.200	4.0	148800.400	5.0
4344.3742	13.01	-3.09	146499.200	4.0	148800.400	3.0
4344.6215	12.00	-.91	57017.724	1.0	59318.793	1.0
4344.6555	12.00	-.60	57017.724	1.0	59318.775	2.0
4344.9973	6.00	-1.30	87218.260	2.0	89519.130	3.0
4345.5733	7.00	-4.47	110459.760	1.5	112760.325	2.5
4346.1269	26.00	-4.44	48122.913	3.0	50423.185	4.0
4346.4519	15.00	-1.12	75833.400	2.5	78133.500	2.5
4346.6786	28.01	-2.99	128732.030	1.5	131032.010	2.5
4347.0188	25.00	-4.70	55186.170	2.5	57485.970	2.5
4347.0793	12.00	-2.08	57019.025	2.0	59318.793	1.0
4347.1133	12.00	-1.08	57019.025	2.0	59318.775	2.0
4347.1341	12.00	-.16	57019.025	2.0	59318.764	3.0
4347.3781	10.00	-1.17	170689.370	0.0	172988.980	1.0
4347.6994	6.00	-2.30	86491.410	1.0	88790.850	1.0
4347.8979	7.00	-4.70	110498.390	3.5	112797.725	3.5
4348.6639	23.00	-4.75	20789.130	2.5	23088.060	1.5
4349.6478	28.01	-4.90	137535.830	5.5	139834.240	6.5
4349.7803	25.00	-2.62	57485.970	2.5	59784.310	3.5
4350.2345	15.01	-.72	127368.000	2.0	129666.100	2.0
4350.5185	29.01	-1.45	136919.350	3.0	139217.300	2.0
4350.9975	28.00	-1.77	47030.148	3.0	49327.845	2.0
4351.6547	28.01	-2.42	118892.990	5.5	121190.340	4.5
4351.6737	14.00	-1.58	62376.820	3.0	64674.160	4.0
4351.9104	14.00	-3.64	61647.875	2.0	63945.090	3.0
4352.0146	22.00	-3.21	43467.550	2.0	45764.710	1.0
4352.2230	22.00	-2.89	46068.040	4.0	48365.090	3.0
4352.3614	17.00	-4.16	98693.013	3.5	100989.990	3.5
4352.6968	22.00	.31	44233.650	3.0	46530.450	4.0
4352.8105	10.01	-4.80	319111.700	3.5	321408.440	3.5
4352.8295	10.01	-4.60	319111.710	4.5	321408.440	3.5
4352.8522	7.00	-3.73	104886.070	.5	107182.788	1.5
4352.8674	9.02	-1.81	464491.890	3.5	466788.600	2.5
4353.4170	9.02	-1.40	442278.930	2.5	444575.350	2.5
4353.5308	22.00	-3.68	39662.150	1.0	41958.510	2.0
4353.5877	29.01	-1.70	137034.970	3.0	139331.300	3.0
4354.0711	7.00	-4.17	110501.650	4.5	112797.725	3.5
4354.2893	6.00	-2.90	84116.090	1.0	86412.050	2.0
4354.3557	7.00	-4.44	110501.800	3.5	112797.725	3.5
4354.4410	23.00	-4.75	38003.930	1.5	40299.810	.5
4354.4599	18.01	-1.11	186470.280	1.5	188766.150	2.5
4354.5358	28.01	-3.88	101357.200	4.5	103653.030	3.5
4354.7255	8.01	-4.89	253791.870	1.5	256087.600	2.5
4354.9664	26.00	-4.17	48238.832	2.0	50534.435	3.0
4355.2377	14.00	-1.51	60300.860	2.0	62596.320	2.0
4355.5052	14.00	-.68	56978.256	1.0	59273.575	1.0
4355.7501	9.02	-1.74	464491.890	3.5	466787.080	4.5
4356.1107	17.01	-3.67	144174.000	3.0	146469.000	3.0
4356.6232	25.00	-2.76	57305.620	3.5	59600.350	2.5
4356.9877	10.00	-3.40	169508.562	2.0	171803.100	2.0
4356.9877	10.00	-3.40	169508.562	2.0	171803.100	2.0
4357.5537	10.01	-4.23	319111.710	4.5	321405.950	3.5
4357.7246	27.00	-3.32	42811.440	3.5	45105.590	3.5
4357.9412	18.00	-1.11	122086.974	2.0	124381.010	2.0
4358.0665	18.01	-.14	199959.620	2.5	202253.590	1.5
4358.2375	21.00	-3.61	36276.760	1.5	38570.640	.5
4358.7696	15.00	-2.14	78132.600	.5	80426.200	1.5
4358.7886	24.00	-2.07	31377.960	4.0	33671.550	3.0
4358.8836	10.01	-4.75	319111.710	4.5	321405.250	4.5
4358.9730	18.00	.29	117151.387	1.0	119444.880	2.0
4359.5869	7.00	-4.02	110544.850	2.5	112838.020	1.5
4359.6249	14.01	-.75	122655.510	3.5	124948.660	3.5
4359.6249	14.01	.79	122655.510	3.5	124948.660	4.5
4359.8531	14.01	.68	122655.630	2.5	124948.660	3.5
4360.1574	10.00	-4.57	171057.900	1.0	173350.770	1.0
4360.4806	15.00	-.68	78133.500	2.5	80426.200	1.5
4360.5948	6.00	-2.26	87218.260	2.0	89510.900	3.0
4361.1654	27.00	-2.33	45924.980	3.5	48217.320	3.5
4361.3823	26.00	-4.81	54491.080	3.0	56783.306	3.0
4361.3937	25.00	-3.52	47299.290	.5	49591.510	1.5
4361.4889	6.00	-3.21	87218.260	2.0	89510.430	2.0
4361.8695	29.01	-3.93	134743.000	4.0	137034.970	3.0
4362.1740	12.00	-.33	54676.438	3.0	56968.248	2.0
4362.2311	12.00	-1.87	54676.438	3.0	56968.218	3.0
4362.5547	26.00	-3.91	48231.330	5.0	50522.940	6.0
4362.5737	10.00	-4.30	171057.900	1.0	173349.500	2.0
4362.6480	12.00	-.90	54676.710	2.0	56968.271	1.0
4362.6918	12.00	-1.80	54676.710	2.0	56968.248	2.0
4362.6918	12.00	-1.17	54676.710	3.0	56968.248	2.0
4362.7489	12.00	-3.17	54676.710	2.0	56968.218	3.0
4362.7489	12.00	-2.01	54676.710	3.0	56968.218	3.0
4362.7489	12.00	-.57	54676.710	4.0	56968.218	3.0
4363.1107	14.00	-.77	59131.912	4.0	61423.230	3.0
4364.8766	7.00	-2.53	111905.609	2.5	114196.000	2.5
4364.9071	18.00	-.56	118870.981	0.0	121161.356	1.0
4365.0137	14.00	-2.39	60645.441	2.0	62935.760	3.0
4365.8124	13.01	-1.27	144939.100	1.0	147229.000	1.0
4366.1213	10.00	-4.41	169508.562	2.0	171798.300	1.0
4366.1213	10.00	-4.41	169508.562	2.0	171798.300	1.0
4366.1613	18.00	-2.30	114861.670	0.0	117151.387	1.0
4366.3845	28.01	-4.04	119796.980	2.5	122086.580	3.5
4366.7354	10.00	-3.00	169502.284	3.0	171791.700	2.0
4366.7354	10.00	-3.00	169502.284	3.0	171791.700	2.0
4366.7545	18.00	-2.07	122086.974	2.0	124376.380	1.0
4366.9757	10.00	-4.63	171060.220	2.0	173349.510	3.0
4367.0521	10.00	-4.50	171060.220	2.0	173349.470	2.0
4367.7313	14.00	-.92	61198.036	0.0	63486.930	1.0
4368.7887	27.00	-1.77	45105.590	3.5	47393.930	2.5
4369.3501	17.00	-4.30	92194.190	1.5	94482.236	2.5
4370.0109	18.01	-4.46	211593.440	4.5	213881.140	5.5
4370.2019	6.00	-2.86	86506.700	2.0	88794.300	2.0
4370.2784	28.01	-3.19	118892.990	5.5	121180.550	5.5
4370.6414	28.01	-.33	119833.000	5.5	122120.370	5.5
4370.7560	28.01	-4.30	118893.240	6.5	121180.550	5.5
4371.1765	14.00	-2.07	62376.820	3.0	64663.910	4.0
4371.2892	9.00	-.61	128087.829	2.5	130374.860	1.5
4371.5587	28.01	-3.85	101366.140	2.5	103653.030	3.5
4371.6352	29.01	.14	137044.450	4.0	139331.300	3.0
4371.7747	18.00	-2.66	121270.682	2.0	123557.459	3.0
4371.7881	28.01	-4.78	111120.540	1.5	113407.310	2.5
4372.2719	7.00	-4.55	110521.050	1.5	112807.567	.5
4372.3427	14.00	-2.22	62596.320	2.0	64882.800	2.0
4372.4879	18.00	-1.60	123505.536	2.0	125791.940	2.0
4373.0159	17.00	-.60	94973.683	.5	97259.811	1.5
4373.0503	26.01	-2.21	85184.690	4.5	87470.800	4.5
4373.0503	10.00	-4.75	169516.990	1.0	171803.100	2.0
4373.0503	10.00	-4.75	169516.990	1.0	171803.100	2.0
4373.7581	28.01	-3.82	119100.060	1.5	121385.800	1.5
4374.2174	28.01	-2.89	97273.830	2.5	99559.330	2.5
4374.4778	10.00	-2.84	169501.636	4.0	171787.000	3.0
4374.4778	10.00	-2.84	169501.636	4.0	171787.000	3.0
4374.6864	18.00	-1.85	118906.665	2.0	121191.920	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4375.1746	15.01	.01	127889.300	3.0	130174.300	2.0
4375.1746	10.00	-3.13	169976.740	0.0	172261.740	1.0
4375.2282	14.00	-1.54	60381.278	1.0	62666.250	1.0
4375.5768	18.00	-.03	117563.020	0.0	119847.810	1.0
4375.7184	10.00	-4.19	169502.284	3.0	171787.000	3.0
4375.7184	10.00	-4.19	169502.284	3.0	171787.000	3.0
4376.1513	18.01	-1.88	192712.000	1.5	194996.490	1.5
4376.2452	10.00	-4.12	170288.959	2.0	172573.400	2.0
4376.2452	10.00	-4.12	170288.959	2.0	172573.400	2.0
4376.3180	18.00	.63	118469.117	2.0	120753.520	3.0
4376.6686	18.00	-.60	120230.070	2.0	122514.290	1.0
4376.8027	6.00	-4.22	86506.700	2.0	88790.850	1.0
4376.9349	10.00	-3.98	170289.319	2.0	172573.400	2.0
4376.9349	10.00	-3.98	170289.319	2.0	172573.400	2.0
4377.2052	25.00	-2.42	57705.830	.5	59989.770	1.5
4377.6211	10.00	-2.99	170289.677	3.0	172573.400	2.0
4377.6211	10.00	-2.99	170289.677	3.0	172573.400	2.0
4377.6594	28.00	-1.97	47030.148	3.0	49313.851	3.0
4378.0217	14.00	-.44	56503.346	2.0	58786.860	3.0
4378.4896	28.01	-4.95	119796.980	2.5	122080.250	2.5
4378.8866	37.00	-1.60	28687.127	0.0	30970.813	0.0
4379.0650	23.00	-2.56	36983.630	1.5	39266.600	1.5
4379.1993	13.01	-4.21	142849.200	3.0	145132.100	4.0
4379.1993	13.01	-2.65	142849.200	4.0	145132.100	4.0
4379.1993	13.01	-2.79	142849.200	4.0	145132.100	4.0
4379.1993	13.01	-1.12	142849.200	5.0	145132.100	4.0
4379.2242	20.00	-.95	46479.813	1.0	48762.700	2.0
4379.3719	6.00	-1.80	86362.520	1.0	88645.330	1.0
4379.3719	6.00	-2.54	86362.520	1.0	88645.330	2.0
4379.7345	20.00	-4.37	44762.620	2.0	47045.241	3.0
4379.8899	14.00	-3.76	61511.770	1.0	63794.310	2.0
4380.1547	20.00	-2.83	44762.839	3.0	47045.241	3.0
4380.6903	20.00	-1.76	44763.118	4.0	47045.241	3.0
4381.1836	17.00	-3.70	94663.670	1.5	96945.536	2.5
4381.4064	14.00	-1.54	61511.770	1.0	63793.520	1.0
4382.0113	14.00	-1.33	60815.925	2.0	63097.360	1.0
4382.1746	29.01	-3.95	131312.700	3.0	133594.050	3.0
4382.2515	10.00	-3.68	169516.990	1.0	171798.300	1.0
4382.2515	10.00	-3.68	169516.990	1.0	171798.300	1.0
4382.3859	6.00	-2.73	84036.400	2.0	86317.640	2.0
4382.5012	20.02	-3.49	371120.690	4.0	373401.870	3.0
4382.7701	9.02	-4.50	442294.310	1.5	444575.350	2.5
4382.8470	12.02	-2.21	582290.100	3.0	584571.100	2.0
4383.0391	12.02	-4.31	606830.700	3.0	609111.600	3.0
4383.0391	12.02	-2.88	606830.700	3.0	609111.600	4.0
4383.1237	14.00	-2.51	60705.464	3.0	62986.320	2.0
4383.2313	37.00	-.65	28689.390	0.0	30970.812	0.0
4383.2697	24.00	-4.68	44068.720	3.0	46349.500	2.0
4383.8079	28.01	-3.24	112719.750	3.5	115000.250	3.5
4384.0002	19.02	-2.06	241667.000	.5	243947.400	1.5
4384.1732	24.00	-4.63	33338.200	0.0	35618.510	1.0
4384.7635	20.00	-1.01	43980.767	1.0	46260.770	2.0
4385.0963	9.02	-1.01	464491.890	3.5	466771.720	3.5
4385.3463	12.02	-.99	582074.400	2.0	584354.100	2.0
4385.3463	13.01	-2.78	142849.200	3.0	145128.900	3.0
4385.3463	13.01	-.84	142849.200	4.0	145128.900	3.0
4385.3463	13.01	-.32	142849.200	4.0	145128.900	3.0
4385.7599	17.00	-4.47	100246.855	1.5	102526.340	2.5
4385.8850	27.00	-1.95	46746.000	2.5	49025.420	1.5
4386.4623	28.01	-4.22	97799.660	1.5	100078.780	1.5
4387.1187	26.00	-2.93	49558.500	4.0	51837.279	3.0
4387.4633	10.00	-1.88	170578.390	1.0	172856.990	1.0
4387.5789	23.00	-2.61	34747.060	3.5	37025.600	3.5
4387.5981	11.00	-1.61	37296.320	.5	39574.850	.5
4387.7752	10.00	-4.41	169508.562	2.0	171787.000	3.0
4387.7752	10.00	-4.41	169508.562	2.0	171787.000	3.0
4388.1104	18.00	-.85	123505.536	2.0	125783.800	1.0
4388.2992	10.00	-1.59	167449.464	1.0	169727.630	1.0
4388.5476	12.00	-1.82	58023.246	2.0	60301.283	2.0
4388.5476	12.00	-1.31	58023.246	2.0	60301.283	3.0
4388.5476	12.00	-1.11	58023.246	2.0	60301.283	3.0
4389.3646	20.00	-1.23	43980.767	1.0	46258.380	1.0
4389.6113	14.00	-1.01	60815.925	2.0	63093.410	2.0
4389.7752	23.00	-3.15	36989.200	2.5	39266.600	1.5
4389.7829	10.00	-4.90	170296.004	1.0	172573.400	2.0
4389.7829	10.00	-4.90	170296.004	1.0	172573.400	2.0
4389.8002	20.00	-2.77	44762.620	2.0	47040.007	2.0
4389.9679	13.01	-1.36	142849.200	3.0	145126.500	2.0
4390.0258	24.00	-3.93	33934.880	3.0	36212.150	4.0
4390.0836	11.00	-1.31	37297.610	1.5	39574.850	.5
4390.2224	20.00	-1.86	44762.839	3.0	47040.007	2.0
4390.4499	19.00	-1.63	31695.890	2.5	33972.940	1.5
4390.6640	7.00	-1.28	111853.061	1.5	114130.000	.5
4390.7391	12.02	-3.06	606834.700	2.0	609111.600	3.0
4390.8703	10.00	-4.25	169526.268	2.0	171803.100	2.0
4390.8703	10.00	-4.25	169526.268	2.0	171803.100	2.0
4390.9513	19.00	-2.59	31696.150	1.5	33972.940	1.5
4391.1171	17.00	-1.84	100249.636	2.5	102526.340	2.5
4391.2714	17.00	-.54	100249.636	2.5	102526.260	3.5
4391.7209	7.00	-2.07	111905.609	2.5	114182.000	2.5
4392.0605	10.00	-3.10	169526.885	3.0	171803.100	2.0
4392.0605	10.00	-3.10	169526.885	3.0	171803.100	2.0
4392.1088	19.00	-1.89	31696.150	1.5	33972.340	.5
4392.2554	18.00	-3.28	121191.920	2.0	123468.034	1.0
4392.3191	14.00	-1.26	56780.427	1.0	59056.508	1.0
4392.4754	28.01	-3.53	118914.340	4.5	121190.340	4.5
4392.4754	8.03	-1.59	594019.000	2.5	596295.000	2.5
4392.6491	28.01	-4.78	116824.150	2.5	119100.060	1.5
4392.9000	6.00	-1.44	86362.520	1.0	88638.300	2.0
4393.3054	6.00	-3.45	86491.410	1.0	88766.980	1.0
4394.1357	22.00	-2.40	41958.510	2.0	44233.650	3.0
4394.2709	23.00	-3.62	20812.990	1.5	23088.060	1.5
4394.3096	28.01	-3.69	116167.760	1.5	118442.810	1.5
4394.5529	26.00	-2.82	51837.279	3.0	54112.203	2.0
4394.6379	23.00	-3.14	37025.600	3.5	39300.480	2.5
4394.7153	18.00	-4.95	123508.960	0.0	125783.800	1.0
4394.9664	10.00	-4.70	169516.990	1.0	171791.700	2.0
4394.9664	10.00	-4.70	169516.990	1.0	171791.700	2.0
4395.0495	17.00	-4.44	92194.190	1.5	94468.857	.5
4395.7297	7.00	-4.62	110486.010	2.5	112760.325	2.5
4395.9403	10.00	-1.04	169797.190	3.0	172071.396	2.0
4396.1646	29.01	-.17	136754.110	2.0	139028.200	2.0
4396.4237	7.00	-3.79	110486.010	2.5	112759.966	1.5
4396.6092	14.00	-1.99	60856.630	1.0	63130.490	1.0
4396.6460	10.00	-3.21	170288.959	2.0	172562.800	1.0
4396.6460	10.00	-3.21	170288.959	2.0	172562.800	1.0
4396.7253	12.02	-2.43	582290.100	3.0	584563.900	3.0
4396.8413	10.00	-1.58	170578.390	1.0	172852.130	0.0
4397.1024	20.00	-2.00	44762.620	2.0	47036.225	1.0
4397.3132	28.00	-3.21	49032.589	2.0	51306.085	3.0
4397.6556	17.00	-3.26	99269.121	2.5	101542.440	1.5
4397.8858	17.01	-3.07	126456.600	4.0	128729.800	3.0
4397.8858	7.00	-5.00	112826.900	3.5	115100.100	2.5
4397.9826	9.02	-1.11	442278.930	2.5	444552.080	3.5
4398.0212	22.00	-.20	41194.420	3.0	43467.550	2.0
4398.3637	22.00	-4.47	39715.437	3.0	41988.390	3.0
4398.4469	14.00	.51	59032.140	2.0	61305.050	3.0
4398.4527	26.00	-3.99	48928.423	2.0	51201.330	2.0
4399.4147	22.00	-4.07	39686.100	2.0	41958.510	2.0
4399.9316	14.00	-.38	59032.140	2.0	61304.283	2.0
4400.0052	14.00	-.93	56503.346	2.0	58775.451	2.0
4400.1467	10.00	-3.33	169526.268	2.0	171798.300	1.0
4400.1467	10.00	-3.33	169526.268	2.0	171798.300	1.0
4400.3054	10.00	-1.59	170585.040	1.0	172856.990	1.0
4400.5011	12.00	-1.13	56308.381	2.0	58580.230	1.0
4400.6289	37.00	-.90	28687.127	0.0	30959.529	0.0
4400.6657	18.00	-2.54	123505.536	2.0	125777.300	1.0
4400.8866	6.00	-2.05	78529.620	3.0	80801.270	2.0
4400.8866	18.01	-3.85	199981.940	1.5	202253.590	1.5
4400.9834	13.01	.05	140091.200	1.0	142362.800	1.0
4400.9834	13.01	-1.04	140091.200	2.0	142362.800	1.0
4400.9834	13.01	.53	140091.200	1.0	142362.800	2.0
4400.9834	13.01	.14	140091.200	2.0	142362.800	2.0
4400.9834	13.01	.89	140091.200	2.0	142362.800	3.0
4400.9834	13.01	.26	140091.200	0.0	142362.800	1.0
4401.3903	28.01	-3.61	117872.780	2.5	120144.170	2.5
4401.4097	6.00	-4.99	86519.470	1.0	88790.850	1.0
4401.5647	12.02	-1.96	582074.400	2.0	584345.700	1.0
4401.6791	14.00	.69	59032.140	2.0	61303.381	3.0
4402.0977	13.00	-1.89	44921.275	1.5	47192.300	2.5
4402.1035	14.00	.20	56503.346	2.0	58774.368	3.0
4402.1268	21.00	-3.20	36330.490	2.5	38601.500	1.5
4402.2431	27.00	-4.55	43952.060	5.5	46223.010	4.5
4402.7666	18.01	-4.97	200880.520	3.5	203151.200	2.5
4402.8964	17.00	-3.69	85917.937	.5	88188.550	1.5
4403.2494	18.00	-2.30	122479.459	1.0	124749.890	0.0
4403.8391	7.00	-1.34	111905.609	2.5	114175.736	3.5
4403.8624	18.00	-.15	116942.815	3.0	119212.930	3.0
4403.8915	9.00	-2.17	128219.830	1.5	130489.930	.5
4404.3765	22.00	-4.04	42311.310	3.0	44581.160	2.0
4404.4929	18.01	.31	199879.320	3.5	202149.110	2.5
4404.5589	18.00	-2.51	122086.974	2.0	124356.730	2.0
4404.7723	20.00	-3.67	46164.644	2.0	48434.290	2.0
4404.7723	20.00	-2.77	46164.644	2.0	48434.290	1.0
4404.8616	13.01	-.65	140091.200	1.0	142360.800	0.0
4405.0460	20.00	-2.77	46164.785	3.0	48434.290	2.0
4405.0460	20.00	-3.50	46164.785	3.0	48434.290	3.0
4405.3275	6.00	-2.15	78293.490	1.0	80562.850	1.0
4405.4070	20.00	-2.44	46164.971	4.0	48434.290	3.0
4405.5022	28.01	-2.59	130900.650	2.5	133169.920	3.5
4405.7778	10.00	-3.94	169482.972	0.0	171752.100	1.0
4405.7778	10.00	-3.94	169482.972	0.0	171752.100	1.0
4406.2400	22.00	-3.92	43975.710	1.0	46244.600	2.0
4406.3177	18.01	-.68	200151.640	1.5	202420.490	.5
4406.3566	6.00	-2.05	86369.470	4.0	88638.300	3.0
4406.6090	14.01	-1.02	124277.000	.5	126545.700	.5
4406.9781	22.00	-1.49	42107.060	4.0	44375.570	5.0
4406.9898	17.00	-1.80	97703.640	1.5	99972.144	.5
4407.0947	21.00	-4.89	37486.480	1.5	39754.930	2.5
4407.3084	18.00	-4.53	123508.960	0.0	125777.300	1.0
4407.7359	18.01	-3.61	202149.110	2.5	204417.230	1.5
4407.8700	7.00	-2.13	107588.469	.5	109856.520	1.5
4408.2413	16.00	-4.45	77149.490	1.0	79417.350	0.0
4408.5717	6.00	-2.70	86523.160	0.0	88790.850	1.0
4409.6412	28.01	-3.20	118923.200	3.5	121190.340	4.5
4409.6471	12.00	-.92	56308.381	2.0	58575.518	2.0
4409.6471	12.00	-.22	56308.381	2.0	58575.518	3.0
4409.7074	12.00	-.41	56308.381	2.0	58575.487	3.0
4409.7385	10.00	-1.89	170585.040	1.0	172852.130	0.0
4410.3104	10.00	-4.25	170296.004	1.0	172562.800	1.0
4410.3104	10.00	-4.25	170296.004	1.0	172562.800	1.0
4410.4388	14.00	-1.89	60856.630	1.0	63123.360	0.0
4410.8650	17.00	-1.07	94663.670	1.5	96930.181	.5
4411.0810	29.01	-4.19	113302.800	4.0	115569.200	5.0
4411.3028	10.00	-1.38	169814.630	2.0	172080.916	1.0
4411.4508	28.01	-3.90	118914.340	4.5	121180.550	5.5
4411.6260	23.00	-3.38	37075.640	4.5	39341.760	3.5
4412.1322	27.00	-3.64	44480.140	2.5	46746.000	2.5
4412.7359	6.00	-2.12	83919.650	3.0	86185.200	2.0
4412.9502	6.00	-2.41	83919.760	2.0	86185.200	2.0
4412.9658	10.00	-3.69	169526.268	2.0	171791.700	2.0
4412.9658	10.00	-3.69	169526.268	2.0	171791.700	2.0
4413.2814	23.00	-4.29	36983.630	1.5	39248.900	1.5
4413.3009	18.01	-.24	192556.840	2.5	194822.100	3.5
4414.0881	26.00	-4.99	51739.964	2.0	54004.820	3.0
4414.1681	10.00	-4.68	169526.885	3.0	171791.700	2.0
4414.1681	10.00	-4.68	169526.885	3.0	171791.700	2.0
4414.5871	6.00	-.75	86369.470	4.0	88634.070	4.0
4414.7626	6.00	-2.32	86369.470	4.0	88633.980	3.0
4415.5620	15.01	-2.85	127756.300	2.0	130020.400	3.0
4415.9736	17.00	-2.26	99269.121	2.5	101533.010	2.5
4416.3716	10.00	-3.53	169488.415	1.0	171752.100	1.0
4416.3716	10.00	-3.53	169488.415	1.0	171752.100	1.0
4416.4983	27.00	-3.14	46454.950	1.5	48718.570	2.5
4416.5491	26.00	-3.85	34782.406	5.0	37046.000	4.0
4416.6739	23.00	-2.65	39597.010	4.5	41860.540	4.5
4416.8886	22.00	-.01	41481.130	5.0	43744.550	4.0
4417.0447	56.01	.27	57631.640	0.0	59895.597	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4417.0837	28.01	-2.52	118927.020	4.5	121190.340	4.5
4417.1228	29.01	-.56	138981.300	2.0	141244.600	1.0
4417.2672	13.00	-3.79	43831.090	2.5	46094.316	2.5
4417.2750	13.00	-2.49	43831.094	3.5	46094.316	2.5
4417.5131	13.01	-.45	139916.700	1.0	142179.800	1.0
4417.5717	22.00	-2.39	43744.550	4.0	46007.620	4.0
4417.6576	14.00	-.81	60705.464	3.0	62968.490	4.0
4418.5870	26.00	-3.28	49804.900	3.0	52067.450	2.0
4418.9580	6.00	-1.72	81769.790	2.0	84032.150	1.0
4419.0088	13.00	-2.65	43831.090	2.5	46093.424	1.5
4419.1534	23.00	-3.22	39127.230	1.5	41389.490	1.5
4419.4933	11.00	-2.45	37036.754	2.5	39298.840	1.5
4419.5324	18.00	-2.11	122086.974	2.0	124349.040	3.0
4419.5324	11.00	-3.41	37036.774	1.5	39298.840	1.5
4419.7883	7.00	-4.10	110498.390	3.5	112760.325	2.5
4420.0327	14.00	-.81	61511.770	1.0	63773.580	2.0
4420.2241	12.00	.30	54706.536	1.0	56968.248	2.0
4420.4899	11.00	-2.71	37036.774	1.5	39298.350	.5
4420.5095	7.00	-2.46	110498.400	2.5	112759.966	1.5
4420.8144	18.01	-1.37	202253.590	1.5	204515.000	.5
4420.9122	22.00	-2.01	41714.350	2.0	43975.710	1.0
4421.1741	18.00	-1.15	117183.654	2.0	119444.880	2.0
4422.1403	10.00	-4.75	169526.268	2.0	171787.000	3.0
4422.1403	10.00	-4.75	169526.268	2.0	171787.000	3.0
4422.8954	28.00	-2.82	44262.619	2.0	46522.965	2.0
4423.0833	24.00	-4.36	46298.320	1.0	48558.570	2.0
4423.3475	10.00	-3.49	169526.885	3.0	171787.000	3.0
4423.3475	10.00	-3.49	169526.885	3.0	171787.000	3.0
4423.9641	10.00	-1.19	170597.190	2.0	172856.990	1.0
4425.5308	6.00	-1.26	83926.200	3.0	86185.200	2.0
4425.6091	22.00	-3.53	41903.480	5.0	44162.440	4.0
4425.9892	18.00	-1.25	118906.665	2.0	121165.431	3.0
4426.1362	12.00	-1.60	58476.689	0.0	60735.380	1.0
4426.2362	6.00	-3.89	86912.860	1.0	89171.500	0.0
4426.4615	7.00	-3.40	110501.800	3.5	112760.325	2.5
4426.7849	12.00	-1.72	58477.020	1.0	60735.380	1.0
4426.7849	12.00	-1.42	58477.020	1.0	60735.380	2.0
4427.1574	27.00	-4.22	50712.450	2.5	52970.620	2.5
4427.4907	15.01	-.46	127368.000	2.0	129626.000	1.0
4427.7652	23.00	-3.22	20830.200	.5	23088.060	1.5
4428.1378	6.00	-.35	86317.640	2.0	88575.310	3.0
4428.2359	12.00	-2.90	58477.760	2.0	60735.380	1.0
4428.2359	12.00	-1.90	58477.760	2.0	60735.380	2.0
4428.2359	12.00	-.98	58477.760	2.0	60735.380	3.0
4428.3732	29.01	-2.33	137073.750	2.0	139331.300	3.0
4428.6675	15.00	-1.78	75689.200	1.5	77946.600	2.5
4428.6675	14.00	-4.49	59190.460	1.0	61447.860	2.0
4428.6851	7.00	-.96	111905.609	2.5	114163.000	1.5
4429.0010	6.00	-.86	86317.640	2.0	88574.870	3.0
4429.0403	6.00	-2.30	86317.640	2.0	88574.850	2.0
4429.1777	6.00	-2.32	86912.860	1.0	89170.000	1.0
4429.9117	10.00	-1.62	169814.630	2.0	172071.396	2.0
4430.1394	22.00	-3.15	41823.190	3.0	44079.840	2.0
4430.2827	14.00	-4.59	62667.823	3.0	64924.400	3.0
4430.5104	10.00	-1.78	167449.464	1.0	169705.925	0.0
4430.6714	26.00	-3.21	45964.944	2.0	48221.323	1.0
4430.7873	14.00	-3.53	62141.800	1.0	64398.120	2.0
4431.0230	7.00	-.29	104221.600	1.5	106477.800	.5
4431.2606	14.00	-.22	57017.496	2.0	59273.575	1.0
4431.5140	6.00	-1.91	86389.380	2.0	88645.330	1.0
4431.5140	6.00	-2.18	86389.380	2.0	88645.330	2.0
4431.6515	23.00	-3.78	39398.820	3.5	41654.700	2.5
4432.3706	10.00	-2.22	163657.268	1.0	165912.782	1.0
4432.5946	15.00	-.03	75813.600	.5	78069.000	1.5
4432.9169	14.00	-2.27	62669.164	3.0	64924.400	3.0
4432.9464	14.00	-1.76	62669.179	4.0	64924.400	3.0
4432.9484	6.00	-2.76	78307.630	2.0	80562.850	1.0
4433.0860	16.00	-4.57	77149.490	1.0	79404.640	1.0
4433.2649	17.00	-.42	99269.121	2.5	101524.180	3.5
4433.3022	9.00	-2.21	130489.930	.5	132744.970	1.5
4433.3809	29.01	-2.38	136773.200	1.0	139028.200	2.0
4434.0239	14.00	-3.79	62669.727	2.0	64924.400	3.0
4434.5608	15.01	-2.55	130143.300	3.0	132397.700	2.0
4434.5786	7.00	-3.11	111905.609	2.5	114160.000	2.5
4434.5786	7.00	-4.60	111905.609	2.5	114160.000	1.5
4435.2494	28.01	.55	121180.550	5.5	123434.600	4.5
4435.4855	18.01	-4.79	211606.470	3.5	213860.400	4.5
4436.2729	28.01	-4.09	118927.020	4.5	121180.550	5.5
4436.8438	25.00	-2.93	55368.660	1.5	57621.900	1.5
4437.4681	12.00	-2.27	58575.487	3.0	60828.410	2.0
4437.5292	12.00	-1.53	58575.518	3.0	60828.410	2.0
4437.5292	12.00	-2.45	58575.518	2.0	60828.410	2.0
4438.0276	17.00	-1.83	99269.121	2.5	101521.760	3.5
4438.8788	14.00	-2.49	54528.220	2.0	56780.427	1.0
4439.0089	9.00	-.51	128122.719	1.5	130374.860	1.5
4439.5018	20.00	-3.07	46182.399	3.0	48434.290	2.0
4439.5234	6.00	-1.95	86912.860	1.0	89164.740	1.0
4439.6614	10.00	-4.79	170578.390	1.0	172830.200	2.0
4439.6811	22.00	.38	42123.770	6.0	44375.570	5.0
4439.7008	28.01	-4.85	100490.950	1.5	102742.740	1.5
4439.8133	18.00	-2.85	121257.227	1.0	123508.960	0.0
4439.8527	14.00	-1.47	56780.427	1.0	59032.140	2.0
4439.9769	28.01	-.87	136589.350	3.5	138841.000	3.5
4440.4620	26.00	-3.29	52019.706	1.0	54271.110	1.0
4440.5883	28.01	-2.42	116191.470	2.5	118442.810	1.5
4441.3576	23.00	-2.43	39241.340	2.5	41492.290	3.5
4441.4365	10.00	-5.00	170578.390	1.0	172829.300	1.0
4441.6339	28.01	-3.06	118939.530	5.5	121190.340	4.5
4443.0354	15.00	-.05	75484.400	2.5	77734.500	2.5
4443.0552	10.00	-4.13	171009.340	1.0	173259.430	1.0
4443.3277	26.00	-4.29	47377.909	4.0	49627.861	4.0
4443.9952	18.00	-3.56	121011.979	1.0	123261.593	2.0
4444.1494	14.00	-3.63	60705.464	3.0	62955.000	2.0
4444.2995	29.01	-1.06	135664.340	1.0	137913.800	1.0
4445.0108	14.01	-.78	124277.000	.5	126526.100	1.5
4445.2164	14.00	-2.78	60705.464	3.0	62954.460	3.0
4445.3351	17.00	-3.89	94482.236	2.5	96731.172	3.5
4445.3667	6.00	-.87	86389.380	2.0	88638.300	2.0
4445.3667	6.00	-2.13	86389.380	2.0	88638.300	3.0
4446.5747	18.00	-1.70	121257.227	1.0	123505.536	2.0
4446.8299	12.00	-4.34	58580.230	1.0	60828.410	2.0
4446.8892	6.00	-3.57	86327.160	3.0	88575.310	3.0
4446.8892	6.00	-.04	86327.160	3.0	88575.310	4.0
4447.6311	14.00	.55	59056.508	1.0	61304.283	2.0
4447.7597	6.00	-1.12	86327.160	3.0	88574.870	3.0
4447.7795	15.04	-.98	445814.000	2.5	448061.700	2.5
4447.7795	15.04	.32	445814.000	2.5	448061.700	3.5
4447.7795	15.04	.17	445814.000	1.5	448061.700	2.5
4447.7993	28.01	-4.66	134271.590	4.5	136519.280	4.5
4447.7993	6.00	-2.55	86327.160	3.0	88574.850	2.0
4448.1159	6.00	-2.02	86397.800	3.0	88645.330	2.0
4448.1555	6.00	-4.80	86519.470	1.0	88766.980	1.0
4449.0819	18.00	-.70	121794.158	0.0	124041.200	1.0
4449.7592	15.00	-1.02	76875.400	1.5	79122.100	1.5
4449.9355	18.00	.12	116660.054	1.0	118906.665	2.0
4450.1355	21.00	-4.95	37553.340	2.5	39799.850	3.5
4450.6784	17.00	-1.31	99972.144	.5	102218.380	1.5
4451.1857	10.00	-2.72	170851.320	1.0	173097.300	0.0
4451.1857	10.00	-2.72	170851.320	1.0	173097.300	0.0
4451.3045	10.00	-4.27	171009.340	1.0	173255.260	0.0
4452.2165	27.00	-4.90	50611.220	3.5	52856.680	3.5
4452.3553	22.00	-3.98	41917.050	4.0	44162.440	4.0
4452.6131	22.00	-2.25	41988.390	3.0	44233.650	3.0
4452.7518	17.00	-.36	95597.593	.5	97842.783	1.5
4452.9502	15.01	-2.56	103756.900	1.0	106001.990	1.0
4453.7040	28.00	-2.78	40361.254	3.0	42605.964	3.0
4453.8032	28.01	-4.65	134274.620	5.5	136519.280	4.5
4453.9223	6.00	-.29	86389.380	2.0	88633.980	3.0
4453.9501	7.00	-3.14	105008.520	2.5	107253.106	2.5
4454.5971	28.01	-1.30	121190.340	4.5	123434.600	4.5
4454.6367	14.00	-3.92	60300.860	2.0	62545.100	1.0
4455.4209	26.00	-4.87	53281.735	5.0	55525.580	5.0
4455.4706	6.00	-4.29	86523.160	0.0	88766.980	1.0
4455.6096	29.01	-2.39	134675.600	2.0	136919.350	3.0
4455.6294	21.00	-4.95	15756.510	2.5	18000.250	2.5
4456.0306	10.00	-3.47	169508.562	2.0	171752.100	1.0
4456.0306	10.00	-3.47	169508.562	2.0	171752.100	1.0
4456.6226	22.00	-4.01	39214.380	3.0	41457.620	3.0
4457.3776	10.00	-3.96	170585.040	1.0	172827.900	2.0
4457.3896	14.00	-.51	56978.256	1.0	59221.110	0.0
4457.5266	14.00	-1.42	60962.105	2.0	63204.890	2.0
4458.8090	23.00	-3.77	34747.060	3.5	36989.200	2.5
4460.1497	10.00	-1.49	169839.450	1.0	172080.916	1.0
4460.2214	28.00	-1.26	47030.148	3.0	49271.578	3.0
4460.6154	26.00	-4.88	51304.650	4.0	53545.882	3.0
4460.6791	15.00	-1.83	75705.400	3.5	77946.600	2.5
4461.0374	28.01	-3.89	118939.530	5.5	121180.550	5.5
4461.1767	14.00	-3.13	62421.030	3.0	64661.980	3.0
4461.3758	29.01	-2.26	133594.050	3.0	135834.900	4.0
4461.6147	14.00	-1.35	60856.630	1.0	63097.360	1.0
4462.0727	6.00	-1.81	86397.800	3.0	88638.300	2.0
4462.0727	6.00	-.77	86397.800	3.0	88638.300	3.0
4462.2520	10.00	-3.93	170585.040	1.0	172825.450	1.0
4462.2918	27.00	-.99	46375.170	1.5	48615.560	2.5
4464.0054	10.00	-4.30	170585.040	1.0	172824.570	0.0
4464.2047	9.02	-3.75	441385.880	1.5	443625.310	2.5
4464.2645	15.01	-1.39	127934.900	1.0	130174.300	2.0
4464.4638	15.00	-1.61	78069.000	1.5	80308.300	2.5
4464.8028	24.00	-4.71	46422.460	4.0	48661.590	3.0
4466.0594	28.01	-2.23	118877.090	1.5	121115.590	1.5
4467.0571	17.01	-2.48	151019.000	2.0	153257.000	2.0
4468.8623	10.00	-1.64	169843.820	2.0	172080.916	1.0
4469.4937	14.00	-1.91	60856.630	1.0	63093.410	2.0
4469.5936	22.00	-4.32	40844.190	3.0	43080.920	2.0
4470.0732	6.00	-2.14	86912.860	1.0	89149.350	1.0
4470.5129	6.00	-.14	86397.800	3.0	88634.070	4.0
4470.6928	6.00	-1.04	86397.800	3.0	88633.980	3.0
4471.6527	13.01	.12	132776.400	0.0	135012.100	1.0
4471.8527	15.00	-4.57	75833.400	2.5	78069.000	1.5
4471.8527	18.00	-2.12	122514.290	1.0	124749.890	0.0
4471.9608	14.00	-1.73	48264.292	3.0	50499.838	2.0
4471.9808	7.00	-.77	105017.570	3.5	107253.106	2.5
4472.4729	24.00	-4.94	48824.500	4.0	51059.790	4.0
4472.4930	18.01	-.53	203007.690	1.5	205242.970	.5
4472.5930	21.00	-4.89	37486.480	1.5	39721.710	1.5
4472.8331	10.00	-4.96	169516.990	1.0	171752.100	1.0
4472.8331	10.00	-4.96	169516.990	1.0	171752.100	1.0
4472.9131	7.00	-4.33	110710.739	2.5	112945.809	2.5
4473.3154	26.00	-3.66	45726.104	5.0	47960.973	4.0
4473.3454	18.00	-.76	121270.682	2.0	123505.536	2.0
4473.4335	28.01	-4.07	118877.090	1.5	121111.900	.5
4473.9541	6.00	-4.45	86412.050	2.0	88646.600	1.0
4474.0922	18.00	-.63	123557.459	3.0	125791.940	2.0
4474.2945	9.00	-.28	128140.480	2.5	130374.860	1.5
4474.5688	26.00	-3.78	51770.577	3.0	54004.820	3.0
4475.1757	6.00	-3.20	85399.810	2.0	87633.750	2.0
4475.9370	6.00	-3.11	87218.260	2.0	89451.820	1.0
4475.9771	25.01	-.74	98461.760	1.0	100695.300	1.0
4476.2176	28.01	-3.37	116145.690	3.5	118379.110	2.5
4476.4181	28.01	-2.88	115739.150	4.5	117972.470	3.5
4476.8511	17.00	-1.51	97739.040	.5	99972.144	.5
4477.0395	10.00	-4.97	170597.190	2.0	172830.200	2.0
4477.1398	25.01	-.44	98462.340	2.0	100695.300	1.0
4477.2801	29.01	-3.98	145901.100	1.0	148133.990	2.0
4477.4124	17.00	-.91	97739.320	1.5	99972.144	.5
4477.4205	28.01	-3.95	131834.940	2.5	134067.760	1.5
4477.9900	28.00	-2.81	50039.180	2.0	52271.716	2.0
4478.3231	10.00	-1.31	169976.740	0.0	172209.110	1.0
4478.7484	14.00	-3.97	59191.072	2.0	61423.230	3.0
4479.1737	10.00	-2.18	169839.450	1.0	172071.396	2.0
4479.8482	14.00	-.69	60704.530	3.0	62936.140	3.0
4480.3782	14.00	-2.00	60705.464	3.0	62936.810	4.0
4480.7296	26.00	-4.21	52039.939	1.0	54271.110	1.0
4481.2739	28.01	-.00	119889.470	5.5	122120.370	5.5
4481.3944	25.01	-1.59	98461.760	1.0	100692.600	2.0
4481.7621	7.00	-4.67	110715.152	3.5	112945.809	2.5
4482.0173	9.02	-1.92	464491.890	3.5	466722.420	2.5
4482.0775	15.00	-1.94	78069.000	1.5	80299.500	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4482.2263	17.00	-.52	95612.357	1.5	97842.783	1.5
4482.2584	27.00	-3.06	45971.190	3.5	48201.600	3.5
4482.4875	14.00	-1.88	60705.464	3.0	62935.760	3.0
4482.5599	25.01	-.59	98462.340	2.0	100692.600	2.0
4482.8011	6.00	-1.55	87218.260	2.0	89448.400	3.0
4483.0222	10.00	-4.56	170597.190	2.0	172827.220	3.0
4483.3439	22.00	-3.94	43583.140	3.0	45813.010	2.0
4483.4605	26.00	-4.87	48304.623	2.0	50534.435	3.0
4483.4846	6.00	-2.41	86912.860	1.0	89142.660	2.0
4484.1684	22.00	-3.11	41515.090	4.0	43744.550	4.0
4484.2086	25.01	-.21	98463.160	3.0	100692.600	2.0
4484.3916	10.00	-1.66	170867.951	1.0	173097.300	0.0
4484.3916	10.00	-1.66	170867.951	1.0	173097.300	0.0
4484.4560	20.00	-.38	46301.973	1.0	48531.290	2.0
4485.5365	28.01	-2.95	128803.230	2.5	131032.010	2.5
4486.1201	20.00	-1.06	46303.649	2.0	48532.139	3.0
4486.6296	7.00	-1.43	107628.283	1.5	109856.520	1.5
4487.6507	28.01	-3.65	68131.210	3.5	70358.940	4.5
4487.8300	20.00	-1.17	46303.649	2.0	48531.290	2.0
4487.8300	20.00	-.26	46303.649	2.0	48531.290	3.0
4487.9609	10.00	-1.39	169843.820	2.0	172071.396	2.0
4489.1821	6.00	-3.30	86412.050	2.0	88639.020	1.0
4489.6479	7.00	-2.50	104810.330	2.5	107037.069	2.5
4490.2306	14.00	-1.56	62421.030	3.0	64647.480	3.0
4490.9769	20.00	-4.50	46306.059	3.0	48532.139	3.0
4491.6226	25.01	-1.59	98462.340	2.0	100688.100	3.0
4491.6428	14.00	-2.55	62421.030	3.0	64646.780	2.0
4492.6905	20.00	-2.66	46306.059	3.0	48531.290	2.0
4492.6905	20.00	-1.12	46306.059	3.0	48531.290	3.0
4492.6905	20.00	-.05	46306.059	3.0	48531.290	4.0
4492.8741	10.00	-1.78	169976.740	0.0	172201.880	1.0
4493.0963	28.01	-4.99	119100.060	1.5	121325.090	2.5
4493.2780	25.01	-.57	98463.160	3.0	100688.100	3.0
4493.5203	6.00	-3.46	86411.980	3.0	88636.800	2.0
4493.6618	6.00	-3.99	86412.050	2.0	88636.800	2.0
4493.6698	18.00	-1.16	122086.974	2.0	124311.720	1.0
4493.8032	29.01	-3.99	133727.870	2.0	135952.550	2.0
4494.1668	9.02	-4.14	441406.460	3.5	443630.960	3.5
4494.2395	14.00	-3.53	59917.336	2.0	62141.800	1.0
4494.3082	16.00	-3.16	78269.200	4.0	80493.630	3.0
4494.3082	16.00	-1.99	78269.200	4.0	80493.630	4.0
4494.3082	16.00	-1.12	78269.200	4.0	80493.630	5.0
4494.5103	16.00	-3.84	77180.310	2.0	79404.640	1.0
4495.1570	16.00	-2.86	78269.620	2.0	80493.630	1.0
4495.1570	16.00	-1.86	78269.620	2.0	80493.630	2.0
4495.1570	16.00	-2.86	78269.620	3.0	80493.630	2.0
4495.1570	16.00	-1.48	78269.620	2.0	80493.630	3.0
4495.1570	16.00	-1.84	78269.620	3.0	80493.630	3.0
4495.1570	16.00	-1.29	78269.620	3.0	80493.630	4.0
4495.2984	25.01	-.01	98464.160	4.0	100688.100	3.0
4495.4157	20.00	-.21	46308.257	2.0	48532.139	3.0
4495.6542	7.00	-1.48	107588.469	.5	109812.233	.5
4495.7836	15.01	-.86	127950.600	2.0	130174.300	2.0
4496.1071	16.00	-2.02	78270.090	1.0	80493.630	1.0
4496.1071	16.00	-2.02	78270.090	0.0	80493.630	1.0
4496.1071	16.00	-1.72	78270.090	1.0	80493.630	2.0
4497.1325	20.00	-1.12	46308.257	2.0	48531.290	3.0
4497.1325	20.00	-1.98	46308.257	2.0	48531.290	2.0
4497.3490	26.00	-4.84	48475.740	3.0	50698.666	2.0
4497.4825	9.02	-3.27	464321.840	2.5	466544.700	1.5
4497.6039	29.01	-1.53	138981.300	2.0	141204.100	3.0
4497.8467	14.00	-2.42	62141.800	1.0	64364.480	2.0
4498.0086	28.01	-4.18	131750.730	3.5	133973.330	2.5
4498.0694	6.00	.07	78340.280	1.0	80562.850	1.0
4498.2111	7.00	-2.86	112880.500	2.5	115103.000	2.5
4498.5956	6.00	-3.78	86414.490	3.0	88636.800	2.0
4498.6158	17.01	-3.80	159574.200	2.0	161796.500	3.0
4499.7295	26.00	-4.07	45333.834	2.0	47555.584	1.0
4500.1710	14.00	-1.05	60010.458	1.0	62231.990	2.0
4500.2561	14.03	-.03	291497.500	1.5	293718.990	2.5
4500.4587	14.03	.13	291497.600	2.5	293718.990	3.5
4500.4587	14.03	-1.17	291497.600	2.5	293718.990	2.5
4500.6613	26.00	-3.95	52049.820	2.0	54271.110	1.0
4501.2490	8.03	-2.91	594074.000	3.5	596295.000	2.5
4501.6746	18.00	-2.41	122160.220	3.0	124381.010	2.0
4501.9787	9.00	-1.06	130374.860	1.5	132595.500	2.5
4502.2625	12.02	-3.66	606891.100	3.0	609111.600	3.0
4502.2625	12.02	-4.97	606891.100	3.0	609111.600	4.0
4502.6681	12.02	-3.34	606891.100	3.0	609111.400	4.0
4503.6824	12.02	-3.55	606891.800	4.0	609111.600	4.0
4504.0678	28.01	-3.16	133903.000	1.5	136122.610	2.5
4504.0881	12.02	-4.87	606891.800	4.0	609111.400	4.0
4504.0881	12.02	-3.27	606891.800	4.0	609111.400	5.0
4504.0881	7.00	-2.93	112880.500	2.5	115100.100	2.5
4504.2992	14.00	-1.96	61574.814	3.0	63794.310	2.0
4504.8148	14.00	-2.78	60706.558	1.0	62925.800	1.0
4505.0218	25.01	-1.89	98463.160	3.0	100682.300	4.0
4505.0827	28.01	-3.98	133734.980	3.5	135954.090	3.5
4505.6105	9.02	-4.80	441406.460	3.5	443625.310	2.5
4505.6512	28.01	-3.55	133735.260	2.5	135954.090	3.5
4505.7121	14.00	-3.47	60300.860	2.0	62519.660	2.0
4505.8035	20.00	-2.33	42743.002	1.0	44961.757	2.0
4505.8543	6.00	-2.69	85625.180	0.0	87843.910	1.0
4506.5022	18.00	-2.85	122440.109	2.0	124658.520	2.0
4506.7561	26.00	-4.70	46313.610	2.0	48531.896	3.0
4507.0528	25.01	-.71	98464.160	4.0	100682.300	4.0
4507.1137	28.01	-3.55	131834.940	2.5	134053.050	2.5
4507.1503	7.00	-2.52	111853.061	1.5	114071.153	1.5
4507.7437	26.02	-4.69	184780.800	5.0	186998.600	4.0
4508.0486	28.01	-2.57	118897.940	2.5	121115.590	1.5
4509.0652	25.01	.15	98465.150	5.0	100682.300	4.0
4509.2869	20.00	-1.16	42744.716	2.0	44961.757	2.0
4509.5737	24.00	-4.59	33423.790	1.0	35640.690	0.0
4509.6958	26.00	-4.43	49850.610	3.0	52067.450	2.0
4509.8585	25.00	-2.39	55405.140	2.5	57621.900	1.5
4510.2858	14.00	-1.52	60704.530	3.0	62921.080	2.0
4510.6297	17.00	-2.19	95313.749	1.5	97530.130	2.5
4510.7090	17.00	-2.42	98372.970	1.5	100589.312	2.5
4510.7620	7.00	-4.55	110710.739	2.5	112927.055	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4511.2017	25.01	1.05	114932.200	4.0	117148.300	5.0
4511.4642	7.00	-4.82	110103.834	1.5	112319.805	1.5
4511.5437	14.00	-1.13	60010.458	1.0	62226.390	1.0
4511.5864	7.00	-3.85	110521.050	1.5	112736.961	1.5
4511.6455	17.00	-1.30	98373.430	2.5	100589.312	2.5
4512.4193	26.00	-3.42	49135.003	3.0	51350.505	4.0
4512.7493	6.00	-3.07	86956.160	1.0	89171.500	0.0
4513.4889	14.00	-1.83	62667.823	3.0	64882.800	2.0
4513.9718	28.01	-4.91	134327.540	3.5	136542.280	3.5
4514.1492	20.00	-1.15	42743.002	1.0	44957.655	1.0
4514.3999	19.00	-2.15	31695.890	2.5	33910.420	2.5
4514.3999	19.00	-.85	31695.890	2.5	33910.420	3.5
4514.4162	14.00	-.98	60706.558	1.0	62921.080	2.0
4514.5834	18.01	-.09	204417.230	1.5	206631.670	2.5
4514.7260	20.00	-.41	42747.387	3.0	44961.757	2.0
4514.8688	13.01	-1.17	145128.900	3.0	147343.200	2.0
4514.9096	22.00	-.19	41368.860	4.0	43583.140	3.0
4514.9300	19.00	-1.01	31696.150	1.5	33910.420	2.5
4515.3174	26.00	-3.86	50043.250	1.0	52257.330	0.0
4515.3174	10.00	-4.22	170851.320	1.0	173065.400	2.0
4515.3174	10.00	-4.22	170851.320	1.0	173065.400	2.0
4515.8070	6.00	-1.99	86956.160	1.0	89170.000	1.0
4515.9293	18.01	-1.88	203007.690	1.5	205221.470	1.5
4516.2230	14.00	-1.91	62669.164	3.0	64882.800	2.0
4516.4169	18.00	.54	116999.389	2.0	119212.930	3.0
4517.0393	17.00	-1.20	94732.300	3.5	96945.536	2.5
4517.0719	6.00	-2.70	87218.260	2.0	89431.480	2.0
4517.3373	28.01	-4.54	134333.410	5.5	136546.500	4.5
4517.3720	14.00	-2.56	62669.727	2.0	64882.800	2.0
4517.4598	28.01	-3.77	122790.410	4.5	125003.440	5.5
4517.4802	6.00	-3.12	86411.980	3.0	88625.000	3.0
4517.6456	20.00	-.67	42744.716	2.0	44957.655	1.0
4518.1988	20.00	-1.02	42743.002	1.0	44955.670	0.0
4518.7747	14.00	-2.40	57798.072	2.0	60010.458	1.0
4518.8891	6.00	-.29	86362.520	1.0	88574.850	2.0
4519.2303	26.00	-2.72	44676.963	4.0	46889.126	4.0
4519.5857	7.00	-.75	104825.080	2.5	107037.069	2.5
4520.4175	18.00	-1.38	118407.494	1.0	120619.076	2.0
4521.2966	14.00	-4.44	61303.381	3.0	63514.533	4.0
4521.7280	18.00	-3.61	122440.109	2.0	124651.050	1.0
4522.0022	18.00	-3.57	121257.227	1.0	123468.034	1.0
4522.6097	28.01	-3.30	97799.660	1.5	100010.170	.5
4522.6097	6.00	-3.38	86414.490	3.0	88625.000	3.0
4522.6916	9.02	-1.79	442278.930	2.5	444489.400	2.5
4522.7325	28.01	-4.37	134336.680	4.5	136547.130	3.5
4523.0190	6.00	-1.99	86414.690	4.0	88625.000	3.0
4523.4282	23.00	-4.42	40153.510	2.5	42363.620	3.5
4523.5306	14.00	-2.75	62141.800	1.0	64351.860	1.0
4523.6124	12.01	.50	103419.700	2.5	105629.720	1.5
4524.0915	8.00	-1.87	105385.366	4.0	107595.152	3.0
4524.0915	8.00	-.70	105385.366	4.0	107595.152	4.0
4524.0915	8.00	.17	105385.366	4.0	107595.152	5.0
4524.1038	28.01	-1.25	128822.230	1.5	131032.010	2.5
4524.1242	8.00	-4.21	105385.389	3.0	107595.159	4.0
4524.1386	8.00	-1.57	105385.389	3.0	107595.152	2.0
4524.1386	8.00	-.55	105385.389	3.0	107595.152	3.0
4524.1386	8.00	0.00	105385.389	3.0	107595.152	4.0
4524.1898	8.00	-4.44	105385.421	2.0	107595.159	3.0
4524.2041	8.00	-1.57	105385.421	2.0	107595.152	1.0
4524.2041	8.00	-.57	105385.421	2.0	107595.152	2.0
4524.2041	8.00	-.19	105385.421	2.0	107595.152	3.0
4524.2266	22.00	-4.48	39662.150	1.0	41871.870	2.0
4524.2266	12.01	-.45	103420.000	1.5	105629.720	1.5
4524.2451	8.00	-4.98	105385.448	1.0	107595.159	2.0
4524.2594	8.00	-.73	105385.448	1.0	107595.152	1.0
4524.2594	8.00	-.43	105385.448	1.0	107595.152	2.0
4524.2675	18.00	-1.59	119444.880	2.0	121654.580	2.0
4524.2859	8.00	-.73	105385.461	0.0	107595.152	1.0
4524.6893	20.00	-4.40	40537.893	3.0	42747.387	3.0
4524.7999	18.00	-.45	119444.880	2.0	121654.320	3.0
4526.2114	18.00	-4.69	121011.979	1.0	123220.730	2.0
4526.5208	12.02	-3.59	606841.900	2.0	609050.500	2.0
4526.5536	18.00	-1.73	114975.070	1.0	117183.654	2.0
4526.5618	6.00	-1.83	86956.160	1.0	89164.740	1.0
4526.6848	18.00	-2.73	119444.880	2.0	121653.400	3.0
4526.7341	14.00	-2.32	61574.814	3.0	63783.310	4.0
4526.9308	15.00	-4.18	77655.200	3.5	79863.600	3.5
4527.8124	22.00	-2.28	41871.870	2.0	44079.840	2.0
4528.1200	14.00	-2.64	61306.713	4.0	63514.533	4.0
4528.6329	19.00	-2.30	31765.370	.5	33972.940	1.5
4528.6616	18.00	-2.58	121165.431	3.0	123372.987	2.0
4529.0226	28.01	-4.84	134323.880	2.5	136531.260	1.5
4529.7204	28.01	-.57	119913.330	4.5	122120.370	5.5
4529.8640	19.00	-2.61	31765.370	.5	33972.340	.5
4530.1657	20.00	-4.81	40537.893	3.0	42744.716	2.0
4530.2335	28.01	-3.80	116087.380	4.5	118294.170	3.5
4530.5743	5.00	.41	57786.376	.5	59993.000	1.5
4530.7468	27.00	-4.31	48718.570	2.5	50925.110	1.5
4530.7694	10.00	-1.11	170858.871	3.0	173065.400	2.0
4530.7694	10.00	-1.11	170858.871	3.0	173065.400	2.0
4530.8495	29.01	-3.77	145927.500	2.0	148133.990	3.0
4530.8495	12.01	-.71	112197.060	2.5	114403.550	2.5
4530.8495	12.01	.59	112197.060	2.5	114403.550	3.5
4531.0548	12.01	.43	112197.160	1.5	114403.550	2.5
4531.6915	28.01	-4.46	116893.980	2.5	119100.060	1.5
4531.7737	6.00	-3.44	86956.160	1.0	89162.200	2.0
4531.8209	17.00	-2.47	98693.013	3.5	100899.030	3.5
4531.8846	5.00	.66	57787.014	1.5	59993.000	2.5
4531.8846	5.00	-.29	57787.014	1.5	59993.000	1.5
4532.1846	6.00	-4.01	86369.470	4.0	88575.310	3.0
4532.1846	6.00	-3.02	86369.470	4.0	88575.310	4.0
4532.2462	17.00	-1.05	98693.220	2.5	100899.030	3.5
4532.6777	25.01	.19	114932.200	4.0	117137.800	4.0
4532.6942	17.00	-3.47	98383.720	3.5	100589.312	2.5
4532.8627	23.00	-4.41	41860.540	4.5	44066.050	3.5
4533.0887	6.00	-4.53	86369.470	4.0	88574.870	3.0
4533.2121	26.00	-4.59	52180.820	1.0	54386.160	1.0
4533.2738	28.01	-4.93	108368.050	2.5	110573.360	2.5
4533.7857	10.00	-2.98	163707.721	1.0	165912.782	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4533.9317	6.00	-1.96	85625.180	0.0	87830.170	1.0
4534.1990	28.01	-3.28	128827.150	3.5	131032.010	2.5
4534.6514	18.01	-1.37	190507.360	1.5	192712.000	1.5
4534.8222	8.00	-1.41	105912.043	1.0	108116.600	1.0
4534.8222	8.00	-.93	105912.043	1.0	108116.600	2.0
4534.8222	8.00	-2.58	105912.043	2.0	108116.600	1.0
4534.8222	8.00	-1.41	105912.043	2.0	108116.600	2.0
4534.8222	8.00	-.66	105912.043	2.0	108116.600	3.0
4534.8222	8.00	-1.28	105912.043	0.0	108116.600	1.0
4534.8366	6.00	-2.43	86965.450	2.0	89170.000	1.0
4534.8531	18.00	-.79	121932.908	1.0	124137.450	2.0
4535.5917	10.00	-2.78	163708.599	2.0	165912.782	1.0
4536.6681	26.00	-2.84	52067.450	2.0	54271.110	1.0
4536.6887	28.01	-4.73	134327.610	2.5	136531.260	1.5
4536.6928	10.00	-.71	169482.972	0.0	171686.620	1.0
4536.9975	12.02	-4.73	606841.900	2.0	609045.400	3.0
4536.9975	12.02	-3.43	606841.900	3.0	609045.400	3.0
4537.1395	18.00	-1.90	122440.109	2.0	124643.540	1.0
4537.4609	20.00	-.85	44276.538	0.0	46479.813	1.0
4539.2265	10.00	-2.77	170862.982	2.0	173065.400	2.0
4539.2265	10.00	-2.77	170862.982	2.0	173065.400	2.0
4539.2636	15.01	-4.68	127368.000	2.0	129570.400	1.0
4539.3872	12.01	.24	103420.000	1.5	105622.340	.5
4540.1087	10.00	-2.97	171148.780	0.0	173350.770	1.0
4540.2531	24.00	-4.90	30858.820	2.0	33060.740	3.0
4540.7171	10.00	-1.53	169488.415	1.0	171690.110	2.0
4540.8862	22.00	-4.49	39715.437	3.0	41917.050	4.0
4540.9336	21.00	-4.54	37553.340	2.5	39754.930	2.5
4541.0368	10.00	-3.81	168355.510	1.0	170557.050	1.0
4541.8207	28.01	-3.82	112906.930	1.5	115108.090	2.5
4542.5430	18.01	-1.95	190511.190	2.5	192712.000	1.5
4543.0797	29.01	-3.91	118484.000	3.0	120684.550	3.0
4543.1003	23.00	-2.35	39398.820	3.5	41599.360	4.5
4543.5133	7.00	-5.00	110710.739	2.5	112911.079	3.5
4544.2774	29.01	-4.56	145945.800	5.0	148145.770	5.0
4544.4407	7.00	-3.81	110710.739	2.5	112910.630	2.5
4545.2484	15.00	-.29	75689.200	1.5	77888.700	1.5
4545.6825	6.00	-3.50	86965.450	2.0	89164.740	1.0
4545.8479	10.00	-4.53	171060.220	2.0	173259.430	1.0
4545.8685	13.01	.53	132819.700	3.0	135018.900	2.0
4546.0339	28.01	-4.56	98276.700	4.5	100475.820	3.5
4546.2427	7.00	-2.92	104615.440	1.5	106814.459	2.5
4546.2820	13.01	-1.40	132819.900	1.0	135018.900	2.0
4546.2820	13.01	-.22	132819.900	2.0	135018.900	2.0
4546.3233	6.00	-2.28	83986.220	3.0	86185.200	2.0
4546.4846	26.00	-3.98	33412.706	3.0	35611.608	3.0
4546.7575	27.00	-4.03	46002.830	2.5	48201.600	3.5
4546.7658	14.00	-2.86	61574.814	3.0	63773.580	2.0
4547.3656	14.00	-1.50	61574.814	3.0	63773.290	3.0
4547.4234	7.00	-3.82	104984.340	.5	107182.788	1.5
4547.4814	10.00	-3.86	168358.630	1.0	170557.050	1.0
4547.7483	17.00	-3.47	96494.722	4.5	98693.013	3.5
4547.9262	10.00	-.84	169488.415	1.0	171686.620	1.0
4547.9262	10.00	-.39	169488.415	1.0	171686.620	2.0
4548.8409	14.00	-2.34	61562.477	3.0	63760.240	3.0
4548.9919	28.01	-1.70	103663.500	1.5	105861.190	2.5
4549.4266	18.01	-1.69	201720.670	1.5	203918.150	1.5
4549.4328	17.00	-3.56	98693.013	3.5	100890.490	4.5
4549.4908	10.00	-2.92	170867.951	1.0	173065.400	2.0
4549.4908	10.00	-2.92	170867.951	1.0	173065.400	2.0
4549.6750	10.00	-4.97	171057.900	1.0	173255.260	0.0
4549.6916	18.00	-2.82	121270.682	2.0	123468.034	1.0
4549.8407	14.00	-1.15	61647.360	1.0	63844.640	0.0
4550.0063	18.00	-.58	117563.020	0.0	119760.220	1.0
4550.1990	20.00	-.98	46479.813	1.0	48676.920	2.0
4550.8556	26.00	-3.82	52682.930	2.0	54879.720	2.0
4550.9385	6.00	-2.29	86965.450	2.0	89162.200	2.0
4551.2492	27.00	-1.63	46375.170	1.5	48571.770	.5
4551.4356	18.00	-.73	122160.220	3.0	124356.730	2.0
4551.7051	14.00	-1.87	62450.400	1.0	64646.780	2.0
4551.7424	26.00	-4.81	43137.472	3.0	45333.834	2.0
4551.8957	14.00	-.85	61563.952	4.0	63760.240	3.0
4552.2025	6.00	-2.53	86449.190	3.0	88645.330	2.0
4552.2439	18.00	-2.48	115366.900	1.0	117563.020	0.0
4552.4306	18.01	-1.30	172213.800	1.5	174409.830	1.5
4552.6440	7.00	-3.57	110715.152	3.5	112911.079	3.5
4552.9074	25.00	-2.29	57621.900	1.5	59817.700	2.5
4553.0940	14.00	-3.45	62421.030	3.0	64616.740	2.0
4553.5752	7.00	-4.54	110715.152	3.5	112910.630	2.5
4553.5917	28.01	-3.34	99559.330	2.5	101754.800	2.5
4553.8406	17.00	.42	95612.357	1.5	97807.707	2.5
4554.0564	22.00	-2.21	20209.444	2.0	22404.690	3.0
4554.0688	23.00	-4.56	39241.340	2.5	41436.580	3.5
4554.2203	17.00	-2.93	98693.013	3.5	100888.180	2.5
4554.2203	17.00	-1.61	98693.013	3.5	100888.180	3.5
4554.3800	9.02	-.91	442294.310	1.5	444489.400	2.5
4554.6498	17.00	-4.24	98693.220	2.5	100888.180	2.5
4554.6498	17.00	-3.04	98693.220	2.5	100888.180	3.5
4554.7120	16.00	-4.32	77180.310	2.0	79375.240	2.0
4554.9403	6.00	-2.62	86411.980	3.0	88606.800	3.0
4555.0275	14.00	-1.18	59110.892	2.0	61305.670	1.0
4555.0856	6.00	-4.26	86412.050	2.0	88606.800	3.0
4556.2086	18.00	-2.42	114805.180	2.0	116999.389	2.0
4556.4973	29.01	-4.49	145951.700	6.0	148145.770	6.0
4556.8504	25.01	.88	114943.900	3.0	117137.800	4.0
4557.2658	28.01	-.77	121240.900	3.5	123434.600	4.5
4557.7852	18.00	.42	118407.494	1.0	120600.944	2.0
4558.0554	28.01	-4.86	134323.880	1.5	136517.200	.5
4558.0969	15.01	-1.00	129570.400	1.0	131763.700	1.0
4558.3256	6.00	-1.59	86956.160	1.0	89149.350	1.0
4558.5126	15.00	-4.36	78429.300	3.5	80622.400	2.5
4559.1986	6.00	-1.79	86411.980	3.0	88604.750	2.0
4559.3442	6.00	-3.01	86412.050	2.0	88604.750	2.0
4559.6728	10.00	-1.89	170872.858	2.0	173065.400	2.0
4559.6728	10.00	-1.89	170872.858	2.0	173065.400	2.0
4559.7060	26.00	-4.68	45562.959	3.0	47755.485	3.0
4560.1553	6.00	-3.18	86414.490	3.0	88606.800	3.0
4560.3841	13.01	-.70	132819.900	1.0	135012.100	1.0
4560.3841	13.01	-.22	132819.900	2.0	135012.100	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4560.4424	10.00	-1.67	170873.228	3.0	173065.400	2.0
4560.4424	10.00	-1.67	170873.228	3.0	173065.400	2.0
4560.5693	7.00	-4.81	110544.850	2.5	112736.961	1.5
4560.5714	6.00	-1.86	86414.690	4.0	88606.800	3.0
4561.5910	14.00	-1.50	60621.640	0.0	62813.260	1.0
4561.9032	21.00	-4.53	15756.510	2.5	17947.980	1.5
4562.2363	9.02	-3.09	442278.930	2.5	444470.240	1.5
4563.0692	22.00	-1.14	42184.660	4.0	44375.570	5.0
4563.5275	28.01	-3.37	116732.510	2.5	118923.200	3.5
4564.3609	27.00	-2.45	44555.710	1.5	46746.000	2.5
4564.4234	6.00	-2.55	86414.490	3.0	88604.750	2.0
4564.4442	6.00	-1.92	86965.450	2.0	89155.700	3.0
4564.5068	24.00	-4.89	46368.350	3.0	48558.570	2.0
4564.6048	7.00	-4.13	110103.834	1.5	112294.007	.5
4564.7569	7.00	-2.26	112826.900	2.5	115017.000	1.5
4565.1529	24.00	-4.99	46298.320	1.0	48488.230	0.0
4565.2363	9.00	-1.12	128184.990	.5	130374.860	1.5
4565.5407	10.00	-2.31	169501.636	4.0	171691.360	3.0
4565.5407	10.00	-.76	169501.636	4.0	171691.360	4.0
4565.6116	24.00	-3.52	31352.420	1.0	33542.110	2.0
4566.0287	18.01	-.05	199959.620	2.5	202149.110	2.5
4566.2789	29.01	-3.65	145978.400	3.0	148167.770	4.0
4566.8213	6.00	-3.72	86449.190	3.0	88638.300	2.0
4566.8213	6.00	-1.29	86449.190	3.0	88638.300	3.0
4566.8420	13.01	-.10	132819.900	1.0	135009.000	0.0
4566.8921	10.00	-.87	169502.284	3.0	171691.360	3.0
4566.8921	10.00	-2.59	169502.284	3.0	171691.360	4.0
4567.2593	15.00	-1.20	75699.800	.5	77888.700	1.5
4567.4263	18.00	-1.37	122160.220	3.0	124349.040	3.0
4567.7122	14.00	.40	59118.030	3.0	61306.713	4.0
4568.1484	10.00	-2.05	169501.636	4.0	171690.110	3.0
4568.1922	28.00	-3.25	47139.392	2.0	49327.845	2.0
4568.5116	22.00	-3.81	40670.600	2.0	42858.900	3.0
4568.6787	22.00	-3.97	41556.330	5.0	43744.550	4.0
4568.7831	22.00	-4.29	39149.260	2.0	41337.430	2.0
4568.9167	14.00	-.10	61574.814	3.0	63762.920	4.0
4569.5014	10.00	-2.16	169502.284	3.0	171690.110	2.0
4569.5014	10.00	-4.08	169502.284	3.0	171690.110	3.0
4569.6184	17.00	-1.27	99354.670	1.5	101542.440	1.5
4569.6810	28.01	-4.37	134336.680	5.5	136524.420	4.5
4569.8899	28.01	-2.87	116191.470	2.5	118379.110	2.5
4569.9317	28.01	-4.84	107082.210	2.5	109269.830	1.5
4569.9944	23.00	-4.24	39241.340	2.5	41428.930	2.5
4570.4206	14.00	-1.82	61574.814	3.0	63762.200	3.0
4571.0392	28.01	-4.61	77736.790	4.5	79923.880	4.5
4571.1855	14.00	-1.09	59118.030	3.0	61305.050	3.0
4571.4363	24.00	-2.57	31355.210	2.0	33542.110	2.0
4572.1722	7.00	-3.13	104996.240	1.5	107182.788	1.5
4572.2726	6.00	-1.76	86956.160	1.0	89142.660	2.0
4572.5570	10.00	-1.46	169501.636	4.0	171688.000	4.0
4572.5570	10.00	.18	169501.636	4.0	171688.000	5.0
4572.6072	22.00	-4.51	46838.090	4.0	49024.430	3.0
4572.9419	27.00	-3.85	49847.080	2.5	52033.260	1.5
4573.0277	8.00	-.24	105409.020	1.0	107595.159	2.0
4573.0277	8.00	-.97	105409.020	2.0	107595.159	2.0
4573.0277	8.00	-2.52	105409.020	3.0	107595.159	2.0
4573.0277	8.00	-.07	105409.020	2.0	107595.159	3.0
4573.0277	8.00	-.97	105409.020	3.0	107595.159	3.0
4573.0277	8.00	.09	105409.020	3.0	107595.159	4.0
4573.0423	8.00	-4.95	105409.020	2.0	107595.152	2.0
4573.0423	8.00	-4.57	105409.020	2.0	107595.152	3.0
4573.0423	8.00	-4.86	105409.020	3.0	107595.152	3.0
4573.0423	8.00	-4.30	105409.020	3.0	107595.152	4.0
4573.4648	6.00	-.84	86389.380	2.0	88575.310	3.0
4573.6322	10.00	-1.55	169727.630	1.0	171913.480	0.0
4573.7996	22.00	-4.89	39686.100	2.0	41871.870	2.0
4573.9126	10.00	.08	169502.284	3.0	171688.000	4.0
4573.9419	7.00	-4.80	104810.330	2.5	106996.032	1.5
4574.1450	7.00	-2.30	104683.030	2.5	106868.635	3.5
4574.3856	6.00	-.94	86389.380	2.0	88574.870	3.0
4574.4275	6.00	-1.63	86389.380	2.0	88574.850	2.0
4574.6033	26.00	-4.68	49108.876	4.0	51294.262	3.0
4574.6766	14.00	-3.25	59118.030	3.0	61303.381	3.0
4575.5162	27.00	-4.23	50578.730	3.5	52763.680	3.5
4575.6627	6.00	-.52	86449.190	3.0	88634.070	4.0
4575.8512	6.00	-1.48	86449.190	3.0	88633.980	3.0
4575.9560	28.00	-3.15	49159.060	2.0	51343.800	2.0
4576.4168	6.00	-3.97	86411.980	3.0	88596.500	4.0
4576.4587	6.00	-2.07	87341.040	0.0	89525.540	1.0
4577.6112	7.00	-1.78	107628.283	1.5	109812.233	.5
4577.7160	6.00	-1.72	86965.450	2.0	89149.350	1.0
4577.7370	14.00	-.78	60042.500	0.0	62226.390	1.0
4577.9885	14.00	-2.06	61305.670	1.0	63489.440	2.0
4578.4707	28.01	-4.01	113408.710	1.5	115592.250	1.5
4578.9111	28.01	-4.52	93390.060	2.5	95573.390	3.5
4579.4984	28.01	-4.12	112686.300	2.5	114869.350	1.5
4580.2957	12.00	-1.75	58477.020	1.0	60659.690	2.0
4580.3440	14.00	-2.00	61304.283	2.0	63486.930	1.0
4580.6189	26.00	-4.25	48516.150	1.0	50698.666	2.0
4580.9253	29.01	-3.78	145985.400	2.0	148167.770	3.0
4581.0093	29.01	-.17	137034.970	3.0	139217.300	2.0
4581.6811	6.00	-4.73	86414.490	3.0	88596.500	4.0
4581.7021	29.01	-1.81	136799.300	2.0	138981.300	2.0
4581.8491	12.00	-2.22	58477.760	2.0	60659.690	2.0
4582.1011	28.01	-2.15	122821.630	5.5	125003.440	5.5
4582.1011	6.00	-2.43	86414.690	4.0	88596.500	4.0
4582.6514	10.00	-1.29	169508.562	2.0	171690.110	2.0
4582.6514	10.00	-.14	169508.562	2.0	171690.110	3.0
4582.7943	18.00	-4.94	122601.290	1.0	124782.770	1.0
4582.9056	10.00	-1.56	168967.353	1.0	171148.780	0.0
4583.2145	24.00	-4.27	30858.820	2.0	33040.100	2.0
4583.3406	18.00	-2.20	123172.090	1.0	125353.310	1.0
4583.6621	18.00	-1.50	121191.920	2.0	123372.987	2.0
4583.8029	28.01	-3.58	116261.810	.5	118442.810	1.5
4583.9500	22.00	-1.61	42052.720	3.0	44233.650	3.0
4584.0341	14.00	-3.33	62141.800	1.0	64322.690	0.0
4584.7678	10.00	-1.37	170288.959	2.0	172469.500	2.0
4584.7678	10.00	-.04	170288.959	2.0	172469.500	3.0
4584.7678	10.00	-2.51	170288.959	2.0	172469.500	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4584.8560	7.00	-3.10	110710.739	2.5	112891.238	3.5
4585.5248	10.00	-1.19	170289.319	2.0	172469.500	2.0
4585.5248	10.00	-.05	170289.319	2.0	172469.500	3.0
4585.6320	14.00	-1.71	61841.940	2.0	64022.070	3.0
4586.2779	10.00	-2.51	170289.677	3.0	172469.500	2.0
4586.2779	10.00	-1.34	170289.677	3.0	172469.500	3.0
4586.2779	10.00	-1.21	170289.677	3.0	172469.500	3.0
4586.2779	10.00	.09	170289.677	3.0	172469.500	4.0
4587.2522	14.00	-1.50	61841.940	2.0	64021.300	2.0
4587.3575	28.01	-4.93	106369.300	1.5	108548.610	1.5
4587.6775	17.00	-3.15	100347.182	2.5	102526.340	2.5
4587.7006	14.00	-1.17	60487.103	1.0	62666.250	1.0
4587.7995	18.00	-4.31	121653.400	3.0	123832.500	3.0
4587.7995	18.00	-3.46	121653.400	4.0	123832.500	3.0
4587.8459	17.00	-1.85	100347.182	2.5	102526.260	3.5
4587.8817	18.00	-2.86	122479.459	1.0	124658.520	2.0
4588.7893	18.00	-4.39	122609.760	1.0	124788.390	1.0
4588.8524	13.01	-.70	142601.600	3.0	144780.200	2.0
4588.9789	24.00	-3.46	36552.130	3.0	38730.670	2.0
4589.1053	22.00	-2.13	41901.360	1.0	44079.840	2.0
4589.1685	6.00	-2.12	86965.450	2.0	89143.900	3.0
4589.4002	17.00	-.84	99354.670	1.5	101533.010	2.5
4589.4634	10.00	-4.86	168378.740	2.0	170557.050	1.0
4589.4845	17.00	-3.04	99354.670	1.5	101532.970	1.5
4589.5055	29.01	-4.82	145955.700	1.0	148133.990	2.0
4589.6108	6.00	-1.60	86912.860	1.0	89091.100	1.0
4589.7373	18.00	-4.76	121654.320	3.0	123832.500	3.0
4589.8216	28.01	-.91	128853.870	2.5	131032.010	2.5
4589.9944	10.00	-1.72	169508.562	2.0	171686.620	1.0
4589.9944	10.00	-.76	169508.562	2.0	171686.620	2.0
4590.5803	24.00	-2.23	31364.330	3.0	33542.110	2.0
4590.8755	6.00	.55	81769.790	2.0	83947.430	3.0
4590.9387	28.01	-4.74	134783.140	2.5	136960.750	2.5
4591.0231	14.00	-.07	57328.789	1.0	59506.359	2.0
4591.1074	27.00	-1.93	44568.470	2.5	46746.000	2.5
4591.1495	6.00	-2.54	86397.800	3.0	88575.310	3.0
4591.1495	6.00	-.79	86397.800	3.0	88575.310	4.0
4591.2128	28.01	-3.63	135944.400	3.5	138121.880	4.5
4591.3836	18.00	-2.99	114821.990	3.0	116999.389	2.0
4591.4468	7.00	-1.04	104859.700	1.5	107037.069	2.5
4591.7822	6.00	-1.64	86965.450	2.0	89142.660	2.0
4591.7884	10.00	-2.86	168355.510	1.0	170532.717	2.0
4592.0142	7.00	-3.70	112826.900	2.5	115004.000	2.5
4592.0142	7.00	-3.25	112826.900	3.5	115004.000	2.5
4592.0774	28.01	-4.37	131796.260	2.5	133973.330	2.5
4592.0775	6.00	-2.24	86397.800	3.0	88574.870	3.0
4592.1197	6.00	-4.89	86397.800	3.0	88574.850	2.0
4592.2251	7.00	-2.36	112880.500	2.5	115057.500	1.5
4592.3707	17.00	-.80	94827.150	2.5	97004.081	1.5
4592.6470	15.00	-1.84	75956.700	3.5	78133.500	2.5
4592.9994	22.00	-4.96	37538.804	2.0	39715.437	3.0
4593.5966	29.01	-2.95	134743.000	4.0	136919.350	3.0
4593.6662	18.00	-2.70	114975.070	1.0	117151.387	1.0
4594.1539	7.00	-4.53	110715.152	3.5	112891.238	3.5
4594.3629	14.00	-3.78	62667.823	3.0	64843.810	4.0
4594.4833	9.02	-1.35	442294.310	1.5	444470.240	1.5
4594.5255	20.00	-2.15	46258.380	1.0	48434.290	1.0
4594.5255	20.00	-1.84	46258.380	1.0	48434.290	2.0
4595.0957	17.00	-.31	94973.683	.5	97149.323	.5
4595.3280	25.00	-4.74	44978.980	1.5	47154.510	1.5
4596.0675	25.00	-3.49	57305.620	3.5	59480.800	2.5
4596.6591	13.01	.28	142607.000	2.0	144781.900	3.0
4596.8917	28.01	-4.29	134333.410	6.5	136508.200	5.5
4597.1961	14.00	-3.94	62669.164	3.0	64843.810	4.0
4597.2278	14.00	-2.09	62669.179	4.0	64843.810	4.0
4597.4202	24.00	-4.18	48488.230	0.0	50662.770	1.0
4597.5914	28.00	-1.41	47139.392	2.0	49313.851	3.0
4597.9953	7.00	-2.35	105008.520	2.5	107182.788	1.5
4598.3781	10.00	-4.35	168358.630	1.0	170532.717	2.0
4598.3950	17.00	-3.26	92140.127	1.5	94314.206	1.5
4598.4563	22.00	-1.60	41988.390	3.0	44162.440	4.0
4599.4232	7.00	-1.63	111853.061	1.5	114026.654	.5
4599.5776	20.00	-3.32	46260.770	2.0	48434.290	1.0
4599.5776	20.00	-2.32	46260.770	2.0	48434.290	2.0
4599.5776	20.00	-1.40	46260.770	2.0	48434.290	3.0
4599.6284	10.00	-.24	170296.004	1.0	172469.500	2.0
4599.8317	12.02	-.17	582290.100	3.0	584463.500	4.0
4600.1491	27.00	-1.45	44201.920	2.5	46375.170	1.5
4600.4243	10.00	-.36	169516.990	1.0	171690.110	2.0
4600.6571	18.00	-4.71	122609.760	1.0	124782.770	1.0
4601.4978	28.00	-2.90	49171.187	1.0	51343.800	2.0
4601.6101	26.00	-4.37	53353.020	6.0	55525.580	5.0
4601.6313	6.00	-1.42	86912.860	1.0	89085.410	1.0
4601.6737	18.00	-3.04	121654.320	3.0	123826.850	2.0
4601.7054	26.00	-4.82	48361.920	4.0	50534.435	3.0
4602.2244	18.00	-3.94	121654.580	2.0	123826.850	2.0
4602.3177	11.00	-1.26	37036.754	2.5	39208.980	2.5
4602.3177	11.00	.04	37036.754	2.5	39208.980	3.5
4602.3600	11.00	-.11	37036.774	1.5	39208.980	2.5
4602.5104	14.00	-1.21	61598.145	2.0	63770.280	1.0
4602.5422	24.00	-3.87	36558.550	2.0	38730.670	2.0
4602.9025	6.00	-4.11	84013.250	3.0	86185.200	2.0
4603.0932	6.00	-4.37	81325.760	1.0	83497.620	2.0
4603.2204	6.00	-2.76	84013.400	2.0	86185.200	2.0
4603.2246	22.00	-4.67	35652.950	3.0	37824.748	4.0
4603.3688	14.00	-3.36	62226.390	1.0	64398.120	2.0
4603.6634	18.00	-3.97	122479.459	1.0	124651.050	1.0
4604.3334	10.00	-3.23	169488.415	1.0	171659.690	2.0
4604.7470	26.00	-3.66	50043.250	1.0	52214.330	1.0
4605.0184	7.00	-.56	104825.080	2.5	106996.032	1.5
4605.1139	10.00	-2.50	163657.268	1.0	165828.175	2.0
4605.1288	27.00	-3.56	46375.170	1.5	48546.070	1.5
4605.3000	2.00	-.32	191493.000	0.0	193664.411	0.0
4606.1429	17.00	-.81	98418.890	3.5	100589.312	2.5
4606.5887	17.00	-1.55	98419.100	2.5	100589.312	2.5
4607.1449	14.00	-2.26	60704.530	3.0	62874.480	2.0
4607.2680	14.00	-1.71	60496.358	2.0	62666.250	1.0
4607.8244	10.00	-1.31	169516.990	1.0	171686.620	1.0
4607.8244	10.00	-1.02	169516.990	1.0	171686.620	2.0
4607.8244	17.00	-2.28	99354.670	1.5	101524.300	2.5
4607.9433	37.00	-.85	25700.536	0.0	27870.702	0.0
4608.3575	12.00	-1.75	56308.381	2.0	58477.760	2.0
4609.6728	6.00	-2.06	86912.860	1.0	89081.620	0.0
4609.9300	12.00	-1.26	56308.381	2.0	58477.020	1.0
4610.3786	14.00	-1.54	57468.239	2.0	59636.667	1.0
4610.4701	14.00	-.84	60962.105	2.0	63130.490	1.0
4610.5019	21.00	-4.94	37553.340	2.5	39721.710	1.5
4610.6295	11.00	-.95	36372.620	.5	38540.930	1.5
4611.1356	22.00	-3.67	37617.868	4.0	39785.940	4.0
4611.2037	22.00	-4.26	40556.070	1.0	42724.110	2.0
4611.2887	15.00	-.92	75675.900	1.5	77843.900	2.5
4611.4547	14.00	-.58	60706.558	1.0	62874.480	2.0
4611.6078	29.01	-.42	137073.750	2.0	139241.600	1.0
4611.8589	26.00	-4.63	53739.488	5.0	55907.220	5.0
4612.0971	10.00	-1.91	170689.370	0.0	172856.990	1.0
4612.2248	11.00	-1.25	36372.620	.5	38540.180	.5
4612.2652	26.00	-2.49	51837.279	3.0	54004.820	3.0
4612.5653	15.00	-1.44	75675.900	1.5	77843.300	1.5
4612.7994	6.00	-3.19	86469.510	3.0	88636.800	2.0
4613.3316	6.00	-3.21	86912.860	1.0	89079.900	2.0
4613.6296	15.00	-2.00	78132.600	.5	80299.500	1.5
4614.2429	37.00	.10	25703.498	0.0	27870.701	0.0
4614.8223	14.00	-3.22	62450.400	1.0	64616.740	2.0
4615.2696	14.00	-3.57	62231.990	2.0	64398.120	2.0
4615.3123	28.01	-2.83	122837.330	4.5	125003.440	5.5
4615.3335	15.00	-3.07	77843.300	1.5	80009.400	.5
4615.5467	15.00	-.34	78133.500	2.5	80299.500	1.5
4615.8237	28.01	-3.63	135956.010	5.5	138121.880	4.5
4616.5185	7.00	-1.62	111905.609	2.5	114071.153	1.5
4616.7616	28.01	-3.29	116732.510	2.5	118897.940	2.5
4617.4823	10.00	-.11	169526.268	2.0	171691.360	3.0
4617.6572	28.01	-.98	128867.000	3.5	131032.010	2.5
4618.1905	22.00	-2.75	44079.840	2.0	46244.600	2.0
4618.7025	25.00	-2.04	57305.620	3.5	59470.140	3.5
4618.7986	10.00	-1.44	169526.885	3.0	171691.360	3.0
4618.7986	10.00	.02	169526.885	3.0	171691.360	4.0
4618.8519	6.00	-1.68	85625.180	0.0	87789.630	1.0
4619.2787	27.00	-4.79	50611.220	3.5	52775.470	4.5
4619.6395	18.00	-3.61	122479.459	1.0	124643.540	1.0
4619.8124	16.05	-.85	627231.000	2.5	629395.000	2.5
4619.8124	16.05	.45	627231.000	2.5	629395.000	3.5
4619.8124	16.05	.29	627231.000	1.5	629395.000	2.5
4619.8124	17.01	-2.78	151093.000	3.0	153257.000	2.0
4620.1497	10.00	-.81	169526.268	2.0	171690.110	2.0
4620.1497	10.00	-1.96	169526.268	2.0	171690.110	3.0
4620.1967	6.00	-2.80	86482.780	2.0	88646.600	1.0
4620.5811	18.01	-1.46	202253.590	1.5	204417.230	1.5
4620.7733	28.01	-3.46	116468.400	1.5	118631.950	.5
4621.1642	22.00	-2.72	37622.573	3.0	39785.940	4.0
4621.4675	10.00	-1.97	169526.885	3.0	171690.110	2.0
4621.4675	10.00	-.65	169526.885	3.0	171690.110	3.0
4621.7346	12.02	-1.66	584628.500	2.0	586791.600	2.0
4622.1684	7.00	-1.59	104615.440	1.5	106778.337	1.5
4622.2987	14.00	-1.40	61597.404	3.0	63760.240	3.0
4622.3200	17.00	-3.41	92151.380	.5	94314.206	1.5
4622.6748	18.00	-2.33	123172.090	1.0	125334.750	0.0
4622.9421	28.00	-3.39	48671.900	3.0	50834.435	2.0
4622.9912	26.00	-5.00	52213.207	3.0	54375.719	2.0
4623.7887	18.00	-.28	118906.665	2.0	121068.804	1.0
4623.8829	14.00	-2.74	61598.145	2.0	63760.240	3.0
4624.1716	28.01	-3.52	113623.100	.5	115785.060	1.5
4624.2786	18.00	-3.77	122609.760	1.0	124771.670	2.0
4624.5138	28.01	-4.83	135960.080	4.5	138121.880	4.5
4625.0701	28.01	-4.67	128960.740	6.5	131122.280	5.5
4625.3697	23.00	-3.89	39597.010	4.5	41758.410	3.5
4625.9796	10.00	-3.39	169526.885	3.0	171688.000	4.0
4626.0117	7.00	-2.72	112826.900	2.5	114988.000	1.5
4626.3328	18.00	-.43	121654.580	2.0	123815.530	1.0
4627.1230	14.00	-1.82	58801.524	1.0	60962.105	2.0
4627.6135	10.00	-2.09	169526.268	2.0	171686.620	1.0
4627.6135	10.00	-3.04	169526.268	2.0	171686.620	2.0
4627.6413	7.00	-4.82	110521.050	1.5	112681.389	2.5
4628.0034	23.00	-4.95	41758.410	3.5	43918.580	2.5
4628.0698	28.00	-2.30	48671.900	3.0	50832.039	3.0
4628.1297	18.00	-3.12	121011.979	1.0	123172.090	1.0
4628.4961	6.00	-1.96	87002.260	3.0	89162.200	2.0
4628.5969	12.00	-1.85	58575.487	3.0	60735.380	2.0
4628.5969	12.00	-3.03	58575.487	3.0	60735.380	3.0
4628.6633	12.00	-2.96	58575.518	2.0	60735.380	2.0
4628.6633	12.00	-2.05	58575.518	2.0	60735.380	1.0
4628.6633	12.00	-4.57	58575.518	3.0	60735.380	2.0
4628.6633	12.00	-4.33	58575.518	2.0	60735.380	3.0
4628.6633	12.00	-3.15	58575.518	3.0	60735.380	3.0
4628.7962	17.01	-4.38	144174.000	3.0	146333.800	2.0
4628.9355	10.00	-1.90	169526.885	3.0	171686.620	2.0
4629.5679	27.00	-4.98	50105.050	1.5	52264.490	1.5
4629.6236	18.00	.37	118459.662	1.0	120619.076	2.0
4629.9559	26.00	-4.47	49135.003	3.0	51294.262	3.0
4630.3977	14.00	-1.60	61562.477	3.0	63721.530	2.0
4631.2192	28.01	-4.65	113407.310	2.5	115565.980	2.5
4631.7127	28.01	-4.63	128966.520	4.5	131124.960	3.5
4632.2278	13.01	-.92	145185.000	1.0	147343.200	2.0
4632.2493	22.00	-4.87	43674.310	4.0	45832.500	5.0
4632.5283	24.00	-4.83	46349.500	2.0	48507.560	1.0
4633.0865	29.01	-4.66	146021.500	3.0	148179.300	4.0
4633.4387	10.00	-4.60	169502.284	3.0	171659.920	4.0
4633.7737	20.01	-.66	86727.060	3.5	88884.540	3.5
4633.7737	20.01	.88	86727.060	3.5	88884.540	4.5
4633.7737	20.01	.77	86727.060	2.5	88884.540	3.5
4634.2742	26.00	-3.53	45220.662	3.0	47377.909	4.0
4635.1013	12.00	-1.72	58578.518	4.0	60735.380	3.0
4635.6645	12.02	-.28	584628.500	2.0	586785.100	3.0
4635.7075	18.01	-2.50	201345.220	1.5	203501.800	2.5
4636.3094	13.01	-1.27	145126.500	2.0	147282.800	2.0
4636.3094	13.01	-.53	145126.500	2.0	147282.800	1.0
4636.3094	13.01	-2.81	145126.500	2.0	147282.800	3.0
4636.4385	6.00	-2.01	86482.780	2.0	88639.020	1.0
4637.4945	7.00	-.91	104881.320	3.5	107037.069	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4637.5784	26.01	-4.04	85184.690	4.5	87340.400	5.5
4637.5999	27.00	-3.35	46562.870	1.5	48718.570	2.5
4638.0517	6.00	-3.22	86469.510	3.0	88625.000	3.0
4638.3745	6.00	-4.89	86469.660	4.0	88625.000	3.0
4638.4606	29.01	-4.18	146024.000	4.0	148179.300	4.0
4638.6758	18.00	-2.97	121653.400	3.0	123808.600	2.0
4638.7834	12.00	-3.93	58580.230	1.0	60735.380	2.0
4638.9944	10.00	-3.31	169530.487	2.0	171685.539	3.0
4639.0417	9.00	-1.01	128219.830	1.5	130374.860	1.5
4639.3646	22.00	.50	44375.570	5.0	46530.450	4.0
4639.5304	10.00	-4.48	169530.487	2.0	171685.290	2.0
4639.5390	10.00	-3.49	169530.491	1.0	171685.290	2.0
4640.3767	10.00	-4.52	169536.950	2.0	171691.360	3.0
4640.3767	10.00	-4.40	169536.950	3.0	171691.360	4.0
4640.9583	6.00	-1.78	86482.660	3.0	88636.800	2.0
4641.2169	18.00	-4.10	121654.580	2.0	123808.600	2.0
4641.2169	6.00	-2.71	86482.780	2.0	88636.800	2.0
4641.3096	10.00	-3.49	168378.740	2.0	170532.717	2.0
4641.4324	6.00	-.84	86491.410	1.0	88645.330	1.0
4641.4324	6.00	-1.55	86491.410	1.0	88645.330	2.0
4641.4755	13.01	-1.64	145128.900	3.0	147282.800	3.0
4641.4755	13.01	-.73	145128.900	3.0	147282.800	2.0
4641.6263	29.01	-1.93	135759.970	2.0	137913.800	1.0
4641.9065	12.02	-3.25	606896.800	3.0	609050.500	2.0
4642.0358	24.00	-4.06	48507.560	1.0	50661.200	0.0
4642.0573	6.00	-2.76	81343.990	2.0	83497.620	2.0
4642.4669	6.00	-2.77	87002.260	3.0	89155.700	3.0
4643.0707	10.00	-3.12	169536.950	2.0	171690.110	2.0
4643.0707	10.00	-4.27	169536.950	3.0	171690.110	2.0
4643.0707	10.00	-4.27	169536.950	2.0	171690.110	3.0
4643.0707	10.00	-2.97	169536.950	3.0	171690.110	3.0
4644.2785	6.01	-.65	187641.600	3.5	189794.200	3.5
4644.2785	6.01	.89	187641.600	3.5	189794.200	4.5
4644.2785	6.01	.78	187641.600	2.5	189794.200	3.5
4644.6302	10.00	-2.38	169530.487	2.0	171682.924	1.0
4644.6389	10.00	-2.77	169530.491	1.0	171682.924	1.0
4644.7101	29.01	-4.90	118532.150	2.0	120684.550	3.0
4645.0446	14.00	-4.02	61598.145	2.0	63750.390	1.0
4645.7396	14.00	-2.96	61562.477	3.0	63714.400	2.0
4646.1887	7.00	-.95	104716.920	3.5	106868.635	3.5
4646.9597	10.00	-2.37	169508.562	2.0	171659.920	3.0
4647.2794	9.00	-1.98	128338.720	.5	130489.930	.5
4647.4566	10.00	-3.52	169508.562	2.0	171659.690	2.0
4648.0249	10.00	-2.18	169530.487	2.0	171681.352	2.0
4648.0335	10.00	-3.13	169530.491	1.0	171681.352	2.0
4648.3815	13.01	-.20	145132.100	4.0	147282.800	3.0
4648.6624	10.00	-2.96	169540.790	3.0	171691.360	3.0
4648.6624	10.00	-4.46	169540.790	4.0	171691.360	3.0
4648.6624	10.00	-4.40	169540.790	3.0	171691.360	4.0
4648.6624	10.00	-2.86	169540.790	4.0	171691.360	4.0
4648.7057	6.00	-2.31	86498.550	1.0	88649.100	0.0
4649.1186	7.00	-2.13	104664.100	1.5	106814.459	2.5
4649.1813	12.00	.26	52556.206	0.0	54706.536	1.0
4649.3543	18.01	-.68	201351.550	2.5	203501.800	2.5
4649.9836	18.00	-.45	118469.117	2.0	120619.076	2.0
4650.0680	18.01	-1.26	186890.950	2.5	189040.870	1.5
4650.3275	29.01	-4.56	146029.500	4.0	148179.300	5.0
4650.5438	10.00	-1.90	169538.300	5.0	171688.000	4.0
4650.5438	10.00	-3.63	169538.300	5.0	171688.000	5.0
4650.5438	10.00	-1.82	169538.300	6.0	171688.000	5.0
4650.6087	10.00	-3.30	169536.950	2.0	171686.620	2.0
4650.6087	10.00	-2.16	169536.950	3.0	171686.620	2.0
4650.6087	10.00	-2.35	169536.950	2.0	171686.620	1.0
4650.8034	23.00	-4.06	38003.930	1.5	40153.510	2.5
4650.8899	14.00	-2.77	60300.860	2.0	62450.400	1.0
4651.1064	11.00	-3.47	37059.540	3.5	39208.980	3.5
4651.1064	11.00	-1.92	37059.540	4.5	39208.980	3.5
4651.1064	11.00	-2.04	37059.540	3.5	39208.980	2.5
4651.1930	10.00	-2.12	170320.100	3.0	172469.500	2.0
4651.1930	10.00	-3.55	170320.100	3.0	172469.500	3.0
4651.1930	10.00	-3.42	170320.100	3.0	172469.500	3.0
4651.1930	10.00	-1.98	170320.100	4.0	172469.500	3.0
4651.1930	10.00	-4.92	170320.100	4.0	172469.500	3.0
4651.1930	10.00	-1.99	170320.100	4.0	172469.500	3.0
4651.1930	10.00	-4.98	170320.100	3.0	172469.500	4.0
4651.1930	10.00	-3.53	170320.100	4.0	172469.500	4.0
4651.1930	10.00	-3.44	170320.100	4.0	172469.500	4.0
4651.1930	10.00	-1.89	170320.100	5.0	172469.500	4.0
4651.1930	12.02	-2.80	584628.500	2.0	586777.900	3.0
4651.3660	10.00	-2.17	169540.790	3.0	171690.110	2.0
4651.3660	10.00	-3.47	169540.790	3.0	171690.110	3.0
4651.3660	10.00	-2.04	169540.790	4.0	171690.110	3.0
4651.4743	18.01	-.75	192712.000	1.5	194861.270	2.5
4651.7340	24.00	-4.42	33423.790	1.0	35572.940	2.0
4651.8639	10.00	-2.02	169542.270	4.0	171691.360	3.0
4651.8639	10.00	-3.56	169542.270	4.0	171691.360	4.0
4651.8639	10.00	-1.93	169542.270	5.0	171691.360	4.0
4652.2708	26.00	-4.38	53229.940	1.0	55378.842	2.0
4652.2752	12.02	-4.96	606896.800	3.0	609045.700	4.0
4652.2752	12.02	-3.44	606896.800	4.0	609045.700	4.0
4652.4916	6.00	-3.35	84036.400	2.0	86185.200	2.0
4652.9247	12.02	-4.49	606896.800	3.0	609045.400	3.0
4652.9247	12.02	-3.06	606896.800	4.0	609045.400	3.0
4652.9247	14.02	.45	240262.280	1.0	242410.880	2.0
4653.1846	28.01	-4.63	135606.300	6.5	137754.780	5.5
4653.3579	12.02	-4.84	606896.800	4.0	609045.200	3.0
4653.3579	12.02	-3.54	606896.800	3.0	609045.200	3.0
4653.8886	26.00	-4.28	53281.735	5.0	55429.890	5.0
4653.8994	23.00	-3.90	39241.340	2.5	41389.490	1.5
4654.1161	6.00	-3.10	86498.550	1.0	88646.600	1.0
4654.3111	6.00	-1.91	86498.640	2.0	88646.600	1.0
4654.6361	24.00	-3.92	30965.460	3.0	33113.270	4.0
4655.3297	19.00	-3.43	30617.310	3.5	32764.800	3.5
4655.3297	19.00	-1.89	30617.310	4.5	32764.800	3.5
4655.3297	19.00	-2.00	30617.310	3.5	32764.800	2.5
4655.3514	5.00	-2.64	62516.520	2.5	64664.000	2.5
4655.3514	5.00	-1.34	62516.520	3.5	64664.000	2.5
4655.3514	5.00	-1.49	62516.520	2.5	64664.000	1.5
4655.9368	10.00	-4.61	169540.790	3.0	171688.000	4.0
4655.9368	10.00	-4.51	169540.790	4.0	171688.000	5.0
4655.9585	24.00	-3.89	48507.560	1.0	50654.760	2.0
4656.1450	14.00	-.98	62156.816	2.0	64303.930	3.0
4656.6308	6.00	-.47	86491.410	1.0	88638.300	2.0
4656.8260	29.01	-4.09	146032.500	5.0	148179.300	5.0
4657.2816	10.00	-2.07	169538.949	3.0	171685.539	3.0
4657.2968	10.00	-3.37	169538.956	2.0	171685.539	3.0
4657.3684	6.00	-1.87	86412.050	2.0	88558.600	1.0
4657.5528	14.00	-.62	54871.031	1.0	57017.496	2.0
4657.6938	28.01	-2.83	134527.240	3.5	136673.640	4.5
4657.8219	10.00	-3.38	169538.949	3.0	171685.290	2.0
4657.8370	10.00	-2.22	169538.956	2.0	171685.290	2.0
4657.9760	29.01	-4.85	146021.500	3.0	148167.770	3.0
4658.1366	7.00	-2.99	110715.152	3.5	112861.348	4.5
4658.1778	26.00	-3.94	53229.940	1.0	55376.117	1.0
4658.3449	9.02	-.37	464491.890	3.5	466637.990	4.5
4658.9745	28.01	-4.71	117763.910	1.5	119909.720	1.5
4658.9962	30.02	-4.42	302804.300	5.0	304950.100	5.0
4659.1482	10.00	-3.06	169542.270	4.0	171688.000	4.0
4659.1482	10.00	-4.76	169542.270	5.0	171688.000	4.0
4659.1482	10.00	-4.71	169542.270	4.0	171688.000	5.0
4659.1482	10.00	-2.98	169542.270	5.0	171688.000	5.0
4659.9735	28.01	-4.16	115827.120	3.5	117972.470	3.5
4660.0820	7.00	-4.93	112957.700	1.5	115103.000	2.5
4660.0820	7.00	-3.53	112957.700	2.5	115103.000	2.5
4661.4662	28.00	-2.49	47030.148	3.0	49174.811	4.0
4661.6031	15.00	-.34	75689.200	1.5	77833.800	1.5
4661.6466	28.01	-3.65	116732.510	2.5	118877.090	1.5
4661.6683	28.01	-3.64	135977.310	4.5	138121.880	4.5
4661.9727	22.00	.20	42018.010	5.0	44162.440	4.0
4661.9727	28.01	-3.44	133734.980	3.5	135879.410	3.5
4662.2119	19.00	-1.54	31069.900	.5	33214.220	.5
4662.2553	30.02	-4.06	302804.300	5.0	304948.600	6.0
4662.3423	22.00	-4.88	44581.160	2.0	46725.420	3.0
4662.3988	26.00	-4.96	42532.729	3.0	44676.963	4.0
4662.4075	27.00	-3.88	50712.450	2.5	52856.680	3.5
4662.4075	18.00	-2.96	122514.290	1.0	124658.520	2.0
4662.5815	28.01	-4.42	133735.260	2.5	135879.410	3.5
4662.9772	10.00	-1.79	169538.956	2.0	171682.924	1.0
4663.8866	29.01	-.41	137073.750	2.0	139217.300	2.0
4664.3871	10.00	-1.17	170851.320	1.0	172994.640	2.0
4664.4350	10.00	-1.65	170317.742	2.0	172461.040	1.0
4664.4501	7.00	-.88	104615.440	1.5	106758.731	.5
4664.4741	11.00	-2.69	37057.650	2.5	39200.930	2.5
4664.4741	11.00	-1.39	37057.650	3.5	39200.930	2.5
4664.4741	11.00	-1.54	37057.650	2.5	39200.930	1.5
4665.7367	10.00	-3.05	169516.990	1.0	171659.690	2.0
4665.9980	28.01	-2.32	128799.720	.5	130942.300	1.5
4666.1505	10.00	-2.83	169543.029	3.0	171685.539	3.0
4666.1657	10.00	-1.39	169543.036	4.0	171685.539	3.0
4666.3835	10.00	-1.56	169538.949	3.0	171681.352	2.0
4666.3900	7.00	-3.61	112957.700	2.5	115100.100	2.5
4666.3987	10.00	-2.70	169538.956	2.0	171681.352	2.0
4666.5208	6.00	-2.98	86482.660	3.0	88625.000	3.0
4666.5643	14.00	-1.44	62519.660	2.0	64661.980	3.0
4666.6928	10.00	-1.52	169543.029	3.0	171685.290	2.0
4666.8257	9.02	-.94	466978.150	1.5	469120.350	1.5
4666.8911	21.00	-1.93	36515.760	1.5	38657.930	2.5
4667.8455	18.00	.35	119023.699	4.0	121165.431	3.0
4667.9152	30.02	-4.52	302808.400	4.0	304950.100	4.0
4668.0460	6.00	-1.19	87002.260	3.0	89143.900	3.0
4668.1332	28.01	-4.81	116732.510	2.5	118874.110	3.5
4668.2901	14.00	-1.06	59056.508	1.0	61198.036	0.0
4668.4972	10.00	-1.83	169530.487	2.0	171671.920	1.0
4668.5059	10.00	-2.25	169530.491	1.0	171671.920	1.0
4668.6346	9.02	-1.90	466978.150	1.5	469119.520	2.5
4668.6411	10.00	-1.34	169534.364	4.0	171675.731	3.0
4668.7872	6.00	-1.23	86912.860	1.0	89054.160	2.0
4668.8265	18.00	-4.48	118459.662	1.0	120600.944	2.0
4669.0052	15.00	-3.97	78069.000	1.5	80210.200	.5
4669.2167	10.00	-2.89	169534.364	4.0	171675.467	4.0
4669.2385	10.00	-1.24	169534.374	5.0	171675.467	4.0
4669.3105	18.00	-2.21	120188.660	2.0	122329.720	3.0
4669.3258	8.00	-1.64	105441.736	2.0	107582.789	1.0
4669.3258	8.00	-2.37	105441.736	2.0	107582.789	2.0
4669.3258	8.00	-3.92	105441.736	2.0	107582.789	3.0
4669.3258	8.00	-1.47	105441.736	3.0	107582.789	2.0
4669.3258	8.00	-2.37	105441.736	3.0	107582.789	3.0
4669.3258	8.00	-1.31	105441.736	4.0	107582.789	3.0
4669.4458	18.00	-.02	118870.981	0.0	121011.979	1.0
4669.4785	10.00	-2.63	170317.638	3.0	172458.621	3.0
4669.5286	25.00	-4.09	45013.550	2.5	47154.510	1.5
4669.5788	10.00	-1.32	170317.684	4.0	172458.621	3.0
4669.6595	13.01	-.20	132776.400	0.0	134917.300	1.0
4669.6617	10.00	-2.76	170317.722	3.0	172458.621	3.0
4669.7053	10.00	-3.93	170317.742	2.0	172458.621	3.0
4669.8777	13.01	-.55	142849.200	4.0	144990.000	4.0
4669.8777	13.01	-.69	142849.200	4.0	144990.000	4.0
4669.8777	13.01	1.07	142849.200	4.0	144990.000	5.0
4669.8777	13.01	-3.12	142849.200	4.0	144990.000	5.0
4669.8777	13.01	-2.03	142849.200	4.0	144990.000	5.0
4669.8777	13.01	1.07	142849.200	4.0	144990.000	5.0
4669.8777	13.01	-2.31	142849.200	5.0	144990.000	4.0
4669.8777	13.01	-.57	142849.200	5.0	144990.000	5.0
4669.8777	13.01	-.68	142849.200	5.0	144990.000	5.0
4669.8777	13.01	1.15	142849.200	5.0	144990.000	6.0
4669.8777	13.01	.97	142849.200	3.0	144990.000	4.0
4669.8995	10.00	-1.46	170317.638	3.0	172458.428	2.0
4670.1263	10.00	-2.61	170317.742	2.0	172458.428	2.0
4670.4143	14.00	-2.69	62156.816	2.0	64297.370	3.0
4670.5976	6.00	-2.40	86498.550	1.0	88639.020	1.0
4670.7503	6.00	-3.05	87002.260	3.0	89142.660	2.0
4670.7940	6.00	-3.39	86498.640	2.0	88639.020	1.0
4670.9249	23.00	-4.57	39398.820	3.5	41539.140	4.5
4671.0123	11.00	-3.39	38399.790	2.5	40540.070	2.5
4671.0123	11.00	-2.09	38399.790	3.5	40540.070	2.5
4671.0123	11.00	-2.25	38399.790	2.5	40540.070	1.5
4671.0951	10.00	-3.91	170317.638	3.0	172457.880	2.0
4671.1868	30.02	-4.15	302808.400	4.0	304948.600	5.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4671.2785	10.00	-1.45	170317.722	3.0	172457.880	2.0
4671.3222	10.00	-2.78	170317.742	2.0	172457.880	2.0
4671.7762	28.01	.02	121294.670	4.5	123434.600	4.5
4671.7762	10.00	-3.78	170689.370	0.0	172829.300	1.0
4672.0164	19.00	-1.24	31074.400	1.5	33214.220	.5
4672.6059	29.01	-.85	133594.050	3.0	135733.600	3.0
4673.9145	12.00	-1.26	59041.019	2.0	61179.970	2.0
4673.9145	12.00	-.72	59041.019	2.0	61179.970	3.0
4673.9145	12.00	-.56	59041.019	2.0	61179.970	3.0
4674.3319	14.02	.06	225526.330	3.0	227665.090	2.0
4674.3800	22.00	-4.15	43583.140	3.0	45721.878	4.0
4674.4870	10.00	-2.14	169530.491	1.0	171669.180	0.0
4674.6160	6.00	-1.83	86506.700	2.0	88645.330	1.0
4674.6160	6.00	-.88	86506.700	2.0	88645.330	2.0
4675.2063	27.00	-4.72	44568.470	2.5	46706.830	3.5
4675.4030	29.01	-4.74	146029.500	4.0	148167.770	4.0
4675.4467	6.00	-3.26	86498.550	1.0	88636.800	2.0
4675.6436	6.00	-2.40	86498.640	2.0	88636.800	2.0
4675.7967	14.00	-3.17	62226.390	1.0	64364.480	2.0
4676.1903	28.01	-4.51	131032.010	2.5	133169.920	3.5
4676.6497	15.01	-2.47	129626.000	1.0	131763.700	1.0
4676.7153	7.00	-2.32	112965.330	3.5	115103.000	2.5
4676.7919	18.00	-2.27	114805.180	2.0	116942.815	3.0
4677.1092	9.02	-1.90	466982.860	2.5	469120.350	1.5
4677.3061	28.01	-4.94	135645.100	5.5	137782.500	4.5
4677.5468	6.00	-3.36	86469.510	3.0	88606.800	3.0
4677.8751	6.00	-2.25	86469.660	4.0	88606.800	3.0
4678.0502	9.02	-4.98	466468.990	4.5	468606.050	3.5
4678.6589	10.00	-4.95	169538.949	3.0	171675.731	3.0
4678.6742	10.00	-3.60	169538.956	2.0	171675.731	3.0
4678.7071	18.00	-2.42	122514.290	1.0	124651.050	1.0
4678.9260	9.02	-.75	466982.860	2.5	469119.520	2.5
4679.1844	18.00	-4.66	122635.128	2.0	124771.670	2.0
4679.1888	26.00	-4.47	53769.020	4.0	55905.560	4.0
4679.1910	7.00	-3.67	110544.850	2.5	112681.389	2.5
4679.2370	10.00	-3.48	169538.949	3.0	171675.467	4.0
4679.5020	10.00	-2.63	167591.233	2.0	169727.630	1.0
4679.5830	18.01	.21	201781.790	2.5	203918.150	1.5
4679.6444	7.00	-2.75	104859.700	1.5	106996.032	1.5
4679.8262	17.00	-1.09	95706.534	1.5	97842.783	1.5
4679.9883	10.00	-4.40	170858.465	4.0	172994.640	3.0
4679.9883	10.00	-3.82	170858.465	4.0	172994.640	3.0
4679.9883	10.00	-2.86	170858.465	4.0	172994.640	4.0
4680.1965	10.00	-4.29	170689.370	0.0	172825.450	1.0
4680.7443	7.00	-2.98	112967.170	3.5	115103.000	2.5
4680.7662	28.01	-3.70	135986.060	3.5	138121.880	4.5
4680.8100	15.00	-3.85	78069.000	1.5	80204.800	1.5
4680.8780	10.00	-1.77	170858.871	3.0	172994.640	2.0
4680.8780	10.00	-2.59	170858.871	3.0	172994.640	3.0
4680.8780	10.00	-1.37	170858.871	3.0	172994.640	4.0
4681.0007	26.00	-4.08	45061.287	3.0	47197.000	2.0
4681.3163	10.00	-1.00	168924.651	2.0	171060.220	2.0
4681.9061	7.00	-3.33	112868.700	3.5	115004.000	2.5
4682.0048	14.00	-2.05	60962.105	2.0	63097.360	1.0
4682.0377	6.00	-3.60	86469.510	3.0	88604.750	2.0
4683.0685	7.00	-2.68	112965.330	3.5	115100.100	2.5
4683.3537	6.00	-.52	87002.260	3.0	89136.900	4.0
4683.6959	37.00	-.12	25700.536	0.0	27835.602	0.0
4683.9681	24.01	-4.73	51789.210	3.5	53923.570	4.5
4684.7582	15.00	-.96	75699.800	.5	77833.800	1.5
4685.5223	10.00	-4.87	169526.268	2.0	171659.920	3.0
4686.0275	10.00	-3.63	169526.268	2.0	171659.690	2.0
4686.0275	10.00	-2.91	169526.268	2.0	171659.690	3.0
4686.3152	9.00	-2.85	128087.829	2.5	130221.120	1.5
4686.3921	7.00	-1.66	105119.850	1.5	107253.106	2.5
4686.4075	10.00	-1.86	168924.651	2.0	171057.900	1.0
4686.8776	10.00	-3.45	169526.885	3.0	171659.920	3.0
4686.8776	10.00	-2.81	169526.885	3.0	171659.920	4.0
4687.0337	10.00	-2.85	169538.956	2.0	171671.920	1.0
4687.1084	7.00	-3.35	112967.170	3.5	115100.100	2.5
4687.1304	6.00	-3.14	86411.980	3.0	88544.900	3.0
4687.2842	6.00	-4.08	86412.050	2.0	88544.900	3.0
4687.3831	10.00	-4.75	169526.885	3.0	171659.690	2.0
4687.3831	10.00	-4.33	169526.885	3.0	171659.690	3.0
4687.6094	10.00	-2.30	169543.029	3.0	171675.731	3.0
4687.6248	10.00	-3.75	169543.036	4.0	171675.731	3.0
4687.8777	18.00	-3.40	123220.730	2.0	125353.310	1.0
4687.9216	28.01	-4.96	128960.740	5.5	131093.300	4.5
4688.0755	14.00	-3.35	62231.990	2.0	64364.480	2.0
4688.1898	10.00	-3.74	169543.029	3.0	171675.467	4.0
4688.2052	10.00	-2.19	169543.036	4.0	171675.467	4.0
4688.7439	28.00	-1.83	47139.392	2.0	49271.578	3.0
4689.4542	8.00	-2.06	105441.657	1.0	107573.520	0.0
4689.4630	8.00	-2.06	105441.657	1.0	107573.516	1.0
4689.4630	8.00	-1.76	105441.657	2.0	107573.516	1.0
4689.4828	8.00	-1.90	105441.657	2.0	107573.507	2.0
4689.4828	8.00	-2.90	105441.657	1.0	107573.507	2.0
4689.4828	8.00	-1.52	105441.657	3.0	107573.507	2.0
4689.5070	8.00	-1.88	105441.657	3.0	107573.496	3.0
4689.5070	8.00	-2.90	105441.657	2.0	107573.496	3.0
4689.5070	8.00	-1.33	105441.657	4.0	107573.496	3.0
4689.5247	8.00	-2.03	105441.657	4.0	107573.488	4.0
4689.5247	8.00	-1.16	105441.657	5.0	107573.488	4.0
4689.5247	8.00	-3.20	105441.657	3.0	107573.488	4.0
4689.5335	18.00	-.54	118469.117	2.0	120600.944	2.0
4689.9052	10.00	-.88	170862.982	2.0	172994.640	2.0
4689.9052	10.00	-2.27	170862.982	2.0	172994.640	3.0
4689.9052	10.00	-1.32	170862.982	2.0	172994.640	3.0
4690.0329	6.00	-1.36	86506.700	2.0	88638.300	2.0
4690.0329	6.00	-.21	86506.700	2.0	88638.300	3.0
4690.4092	7.00	-.77	104683.030	2.5	106814.459	2.5
4690.6006	14.00	-1.34	60010.458	1.0	62141.800	1.0
4690.6820	14.00	-1.63	60962.105	2.0	63093.410	2.0
4691.1333	15.01	-.52	127889.300	3.0	130020.400	3.0
4692.4324	21.00	-3.46	33615.060	1.5	35745.570	2.5
4692.5205	28.01	-2.74	116312.340	1.5	118442.810	1.5
4692.6527	6.00	-3.24	86414.490	3.0	88544.900	3.0
4692.8068	14.00	-.67	62421.030	3.0	64551.370	4.0
4693.0932	6.00	-2.41	86414.690	4.0	88544.900	3.0
4693.3796	28.01	-3.81	117872.780	2.5	120002.860	3.5
4693.4457	28.01	-4.28	66579.710	1.5	68709.760	.5
4693.6000	2.00	.30	191217.000	0.0	193347.561	0.0
4693.7741	17.00	-1.50	98372.970	1.5	100502.871	1.5
4693.9305	14.00	-1.67	62534.080	4.0	64663.910	4.0
4694.7880	17.00	-2.40	98373.430	2.5	100502.871	1.5
4694.8343	6.00	-2.82	86411.980	3.0	88541.400	2.0
4694.8806	17.00	-1.09	95400.731	2.5	97530.130	2.5
4694.9886	6.00	-3.24	86412.050	2.0	88541.400	2.0
4695.2092	18.00	-1.96	122514.290	1.0	124643.540	1.0
4695.5400	12.02	-4.87	606916.600	4.0	609045.700	4.0
4695.5400	12.02	-3.36	606916.600	5.0	609045.700	4.0
4695.9458	28.00	-3.03	50142.800	3.0	52271.716	2.0
4695.9546	28.00	-2.35	47030.148	3.0	49159.060	2.0
4696.6429	12.02	-3.43	606916.600	4.0	609045.200	3.0
4698.3645	14.00	-.85	62519.660	2.0	64647.480	3.0
4698.3844	22.00	-2.98	38959.499	4.0	41087.310	3.0
4698.5567	26.00	-4.08	45833.240	4.0	47960.973	4.0
4699.0624	26.00	-4.62	49242.680	2.0	51370.184	2.0
4699.1154	22.00	-4.35	34170.950	0.0	36298.430	1.0
4699.5572	6.00	-3.73	86506.700	2.0	88633.980	3.0
4699.9107	14.00	-1.58	62519.660	2.0	64646.780	2.0
4700.1980	6.00	-4.44	86469.510	3.0	88596.500	4.0
4700.1980	14.02	.61	240284.280	2.0	242411.270	3.0
4700.3748	6.00	-3.06	86414.490	3.0	88541.400	2.0
4700.5294	6.00	-3.20	86469.660	4.0	88596.500	4.0
4700.8632	10.00	-.04	170867.951	1.0	172994.640	2.0
4701.0600	14.02	-.29	240284.280	2.0	242410.880	2.0
4701.0820	22.00	-.96	42107.060	4.0	44233.650	3.0
4701.5905	6.00	-4.11	86498.640	2.0	88625.000	3.0
4702.1213	7.00	-4.83	112877.880	4.5	115004.000	3.5
4702.1213	6.00	-3.99	86449.190	3.0	88575.310	3.0
4702.1213	6.00	-.83	86449.190	3.0	88575.310	4.0
4702.1434	7.00	-3.48	112877.890	3.5	115004.000	2.5
4702.5636	24.00	-4.93	48824.500	4.0	50950.420	3.0
4702.6963	6.00	-1.60	86519.470	1.0	88645.330	1.0
4702.6963	6.00	-.35	86519.470	1.0	88645.330	2.0
4703.0946	6.00	-1.62	86449.190	3.0	88574.870	3.0
4703.1388	6.00	-3.40	86449.190	3.0	88574.850	2.0
4703.1609	6.00	-2.88	86965.450	2.0	89091.100	1.0
4703.5593	14.00	-2.06	62226.390	1.0	64351.860	1.0
4703.5814	6.00	-1.57	86956.160	1.0	89081.620	0.0
4704.4600	17.00	-1.15	99407.907	.5	101532.970	1.5
4704.5996	17.01	-3.62	144344.000	2.0	146469.000	3.0
4705.0978	10.00	-1.55	169705.925	0.0	171830.700	1.0
4706.0678	7.00	-3.12	104654.000	.5	106778.337	1.5
4706.5043	6.00	-2.44	86482.660	3.0	88606.800	3.0
4706.5354	14.00	-1.11	61597.404	3.0	63721.530	2.0
4706.7702	6.00	-3.43	86482.780	2.0	88606.800	3.0
4707.3907	6.00	-1.32	86956.160	1.0	89079.900	2.0
4707.9450	8.01	-4.23	253789.510	.5	255913.000	1.5
4708.1777	14.00	-1.63	61598.145	2.0	63721.530	2.0
4708.2642	22.00	-3.67	37538.804	2.0	39662.150	1.0
4708.2665	26.00	-4.38	49227.160	3.0	51350.505	4.0
4708.6168	26.00	-3.26	45913.480	3.0	48036.667	2.0
4709.0316	17.01	-4.19	151134.000	1.0	153257.000	2.0
4709.2090	14.00	-1.30	61647.360	1.0	63770.280	1.0
4710.3517	14.00	-1.38	61647.875	2.0	63770.280	1.0
4710.8733	6.00	-.74	86523.160	0.0	88645.330	1.0
4711.0509	6.00	-2.77	86482.660	3.0	88604.750	2.0
4711.3174	6.00	-2.63	86482.780	2.0	88604.750	2.0
4711.3618	18.00	-.87	120207.770	4.0	122329.720	3.0
4711.4062	23.00	-4.78	37475.080	3.5	39597.010	4.5
4711.7348	10.00	-.43	170872.858	2.0	172994.640	2.0
4711.7348	10.00	-3.30	170872.858	2.0	172994.640	3.0
4711.7348	10.00	-1.93	170872.858	2.0	172994.640	3.0
4711.7614	29.01	-3.62	146024.000	4.0	148145.770	5.0
4711.9569	28.00	-3.38	40484.282	2.0	42605.964	3.0
4712.5565	10.00	-1.69	170873.228	3.0	172994.640	2.0
4712.5565	10.00	-5.00	170873.228	3.0	172994.640	3.0
4712.5565	10.00	-2.08	170873.228	3.0	172994.640	3.0
4712.5565	10.00	-3.25	170873.228	3.0	172994.640	4.0
4712.7387	22.00	-1.56	41958.510	2.0	44079.840	2.0
4713.1831	8.01	-4.40	253791.870	1.5	255913.000	1.5
4713.5542	26.00	-4.54	51770.577	3.0	53891.540	3.0
4713.8609	18.00	-1.58	114821.990	3.0	116942.815	3.0
4713.9610	7.00	-.68	104859.700	1.5	106980.480	.5
4714.5389	18.00	-4.36	121653.400	3.0	123773.920	3.0
4714.5389	18.00	-3.14	121653.400	4.0	123773.920	3.0
4714.6056	22.00	-4.09	46244.600	2.0	48365.090	3.0
4714.6857	10.00	-1.33	163707.721	1.0	165828.175	2.0
4714.7835	15.01	-3.67	101636.490	1.0	103756.900	1.0
4715.2171	14.00	-.13	60815.925	2.0	62936.140	3.0
4715.3172	14.00	-3.79	60300.860	2.0	62421.030	3.0
4715.5396	28.01	-2.39	128822.230	1.5	130942.300	1.5
4715.6597	17.00	-3.51	92194.190	1.5	94314.206	1.5
4715.7843	6.00	-1.25	86965.450	2.0	89085.410	1.0
4715.9845	14.00	-1.40	62231.990	2.0	64351.860	1.0
4716.0068	14.00	-1.43	62231.990	2.0	64351.850	3.0
4716.1536	12.00	-3.21	58442.843	3.0	60562.637	2.0
4716.1536	12.00	-1.88	58442.843	3.0	60562.637	3.0
4716.1536	12.00	-2.08	58442.843	3.0	60562.637	3.0
4716.1536	12.00	-.61	58442.843	3.0	60562.637	4.0
4716.1758	12.00	-1.84	58442.853	2.0	60562.637	2.0
4716.1758	12.00	-1.06	58442.853	2.0	60562.637	3.0
4716.1758	12.00	-1.53	58442.853	2.0	60562.637	3.0
4716.2225	12.00	-.94	58442.874	1.0	60562.637	2.0
4716.5474	28.00	-1.91	47208.228	1.0	49327.845	2.0
4716.5852	18.00	-4.79	121654.320	3.0	123773.920	3.0
4716.6386	10.00	-1.76	163708.599	2.0	165828.175	2.0
4716.7098	14.00	-1.38	60848.946	4.0	62968.490	4.0
4716.7633	27.00	-2.50	45105.590	3.5	47225.110	3.5
4716.7633	24.00	-4.36	46704.980	5.0	48824.500	4.0
4717.2529	7.00	-3.99	112868.700	3.5	114988.000	2.5
4717.3330	14.00	-2.57	57798.072	2.0	59917.336	2.0
4717.7872	23.00	-4.52	38106.320	2.5	40225.380	1.5
4717.8339	10.00	-1.50	168924.651	2.0	171043.690	2.0
4718.2993	6.00	-1.16	86519.470	1.0	88638.300	2.0
4718.4952	18.00	-1.02	121932.908	1.0	124051.650	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4719.0343	18.01	-.30	202467.140	1.5	204585.640	2.5
4719.0565	21.00	-4.32	15881.760	3.5	18000.250	2.5
4719.2882	17.00	.06	94827.150	2.5	96945.536	2.5
4720.8972	14.00	-.97	60848.946	4.0	62966.610	5.0
4721.3297	27.00	-3.52	42988.120	3.5	45105.590	3.5
4721.6865	25.00	-3.97	55368.660	1.5	57485.970	2.5
4721.9987	26.01	-4.97	47389.820	1.5	49506.990	1.5
4722.3869	14.00	-4.33	61597.404	3.0	63714.400	2.0
4722.4760	18.00	-1.29	120600.944	2.0	122717.900	3.0
4722.7371	28.00	-3.58	48715.200	4.0	50832.039	3.0
4723.0249	28.01	-1.31	121317.890	3.5	123434.600	4.5
4723.1587	6.00	-.97	86965.450	2.0	89082.100	3.0
4723.9957	10.00	-1.24	169705.925	0.0	171822.200	1.0
4724.0404	14.00	-3.50	61598.145	2.0	63714.400	2.0
4724.1855	28.01	-4.83	134783.140	2.5	136899.330	1.5
4725.1456	18.00	-1.47	121257.227	1.0	123372.987	2.0
4725.2796	23.00	-4.60	41950.350	2.5	44066.050	3.5
4726.3743	14.00	-4.44	59190.460	1.0	61305.670	1.0
4727.7108	12.00	-.97	57204.163	3.0	59318.775	2.0
4727.7354	12.00	-2.26	57204.163	3.0	59318.764	3.0
4727.7421	14.00	-1.08	59191.072	2.0	61305.670	1.0
4727.9210	12.00	-1.30	57204.275	2.0	59318.793	1.0
4727.9612	12.00	-2.21	57204.275	2.0	59318.775	2.0
4727.9612	12.00	-2.70	57204.275	3.0	59318.775	2.0
4727.9858	12.00	-3.58	57204.275	2.0	59318.764	3.0
4727.9858	12.00	-2.42	57204.275	3.0	59318.764	3.0
4727.9858	12.00	-.97	57204.275	4.0	59318.764	3.0
4728.0730	6.00	-2.04	86965.450	2.0	89079.900	2.0
4728.1178	28.01	-4.35	133734.980	3.5	135849.410	2.5
4728.2005	10.00	-4.86	169530.487	2.0	171644.880	1.0
4728.2095	10.00	-3.72	169530.491	1.0	171644.880	1.0
4728.2296	25.00	-2.60	57485.970	2.5	59600.350	2.5
4728.5494	7.00	-.86	104664.100	1.5	106778.337	1.5
4728.6545	18.00	-2.06	123172.090	1.0	125286.280	1.0
4729.0795	15.00	-2.83	78069.000	1.5	80183.000	2.5
4729.4374	6.00	-3.74	86482.660	3.0	88596.500	4.0
4730.7131	29.01	-3.55	146032.500	5.0	148145.770	6.0
4732.7398	14.00	-2.76	61647.875	2.0	63760.240	3.0
4734.2975	10.00	-3.83	169530.487	2.0	171642.157	2.0
4734.3065	10.00	-4.42	169530.491	1.0	171642.157	2.0
4736.2938	6.00	-3.96	87341.040	0.0	89451.820	1.0
4736.5855	10.00	-3.93	171148.780	0.0	173259.430	1.0
4737.2520	18.00	-1.52	123372.987	2.0	125483.340	2.0
4737.4160	14.00	-2.01	62141.800	1.0	64252.080	2.0
4737.6561	18.00	-.27	123372.987	2.0	125483.160	3.0
4737.7752	6.00	-3.07	85625.180	0.0	87735.300	1.0
4738.1299	7.00	-1.05	104886.070	.5	106996.032	1.5
4738.3253	14.00	-3.06	60815.925	2.0	62925.800	1.0
4738.6734	22.00	-1.22	42052.720	3.0	44162.440	4.0
4738.6891	18.00	-2.72	123372.987	2.0	125482.700	3.0
4739.1676	20.01	-.60	86781.140	4.5	88890.640	4.5
4739.1676	20.01	1.13	86781.140	4.5	88890.640	5.5
4739.1676	20.01	1.04	86781.140	3.5	88890.640	4.5
4739.2103	10.00	-4.61	169530.487	2.0	171639.968	2.0
4739.3338	7.00	-.54	105143.680	2.5	107253.106	2.5
4740.2462	26.01	-1.95	85462.780	3.5	87571.800	2.5
4740.6283	29.01	-.27	136919.350	3.0	139028.200	2.0
4741.0105	21.00	-2.04	36492.820	.5	38601.500	1.5
4741.3478	29.01	-4.54	116375.470	3.0	118484.000	3.0
4741.4783	18.00	-.57	121932.908	1.0	124041.380	2.0
4741.7976	19.00	-2.39	31069.900	.5	33178.230	1.5
4741.8830	18.00	-.79	121932.908	1.0	124041.200	1.0
4742.1800	6.00	-3.62	86498.640	2.0	88606.800	3.0
4742.2271	10.00	-.75	168924.651	2.0	171032.790	3.0
4742.3531	10.00	-2.91	169534.364	4.0	171642.447	3.0
4743.3657	26.00	-4.92	49242.872	3.0	51350.505	4.0
4743.6201	6.00	.26	81769.790	2.0	83877.310	1.0
4743.6651	7.00	-3.68	112880.500	2.5	114988.000	3.5
4744.2593	18.00	-1.92	120600.944	2.0	122708.180	2.0
4744.2841	14.00	-.35	54871.031	1.0	56978.256	1.0
4744.7997	18.00	-3.13	120600.944	2.0	122707.940	3.0
4745.1735	14.00	-1.75	61511.770	1.0	63618.600	0.0
4745.4619	14.00	-3.17	60706.558	1.0	62813.260	1.0
4746.1197	12.01	-.63	112301.470	3.5	114407.880	3.5
4746.1197	12.01	.92	112301.470	3.5	114407.880	4.5
4746.1197	12.01	.81	112301.470	2.5	114407.880	3.5
4746.1423	15.00	-2.25	77655.200	3.5	79761.600	2.5
4746.5930	6.00	-3.89	86498.550	1.0	88604.750	2.0
4746.7958	6.00	-3.84	86498.640	2.0	88604.750	2.0
4747.2150	10.00	-3.15	169538.956	2.0	171644.880	1.0
4747.9455	27.00	-4.98	51267.930	4.5	53373.530	3.5
4748.1394	14.00	-2.71	60848.946	4.0	62954.460	3.0
4748.2364	26.00	-3.62	31307.235	4.0	33412.706	3.0
4748.9491	14.00	-.76	60815.925	2.0	62921.080	2.0
4749.9059	7.00	-2.71	104654.000	.5	106758.731	.5
4750.6981	26.02	-3.58	198333.560	2.0	200437.940	2.0
4751.1045	24.00	-3.59	48558.570	2.0	50662.770	1.0
4751.1587	10.00	-1.92	169976.740	0.0	172080.916	1.0
4751.2174	22.00	-2.16	41871.560	0.0	43975.710	1.0
4751.2400	10.01	-.70	322066.850	3.5	324170.990	2.5
4751.3077	10.01	-1.78	322066.880	2.5	324170.990	2.5
4751.5561	15.00	-1.66	78069.000	1.5	80173.000	.5
4751.6465	10.01	-1.72	322066.850	3.5	324170.810	3.5
4751.7142	10.01	-3.15	322066.880	2.5	324170.810	3.5
4751.9175	22.00	-1.53	41871.870	2.0	43975.710	1.0
4751.9401	19.00	-1.73	31953.170	2.5	34057.000	1.5
4751.9401	19.00	-3.15	31074.400	1.5	33178.230	1.5
4752.0078	13.01	-1.45	145185.000	1.0	147288.800	0.0
4752.0463	12.00	-1.41	57214.992	1.0	59318.775	2.0
4752.0756	19.00	-1.57	31953.170	3.5	34056.940	2.5
4752.0756	19.00	-2.87	31953.170	2.5	34056.940	2.5
4752.1885	19.00	-2.19	31074.400	1.5	33178.120	2.5
4752.2337	30.02	-4.96	302827.000	2.0	304930.700	2.0
4752.2337	30.02	-3.78	302827.000	2.0	304930.700	3.0
4752.2337	56.01	-1.47	46154.890	0.0	48259.164	0.0
4752.6901	10.00	-4.75	169538.949	3.0	171642.447	3.0
4752.7059	10.00	-4.90	169538.956	2.0	171642.447	3.0
4753.3454	10.00	-3.37	169538.949	3.0	171642.157	2.0
4753.3612	10.00	-3.66	169538.956	2.0	171642.157	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4753.6573	10.00	-1.27	169727.630	1.0	171830.700	1.0
4753.7477	14.00	-3.56	61647.360	1.0	63750.390	1.0
4754.0529	7.00	.23	104765.740	4.5	106868.635	3.5
4754.5390	10.01	-2.02	321422.850	4.5	323525.530	4.5
4754.6069	10.01	-3.04	321422.880	5.5	323525.530	4.5
4754.6069	10.01	-2.66	321422.850	4.5	323525.500	5.5
4754.6747	10.01	-1.37	321422.880	5.5	323525.500	5.5
4754.7199	19.02	-1.91	244523.000	2.5	246625.600	1.5
4754.7425	23.00	-3.82	39398.820	3.5	41501.410	4.5
4754.9121	14.00	-4.21	61647.875	2.0	63750.390	1.0
4754.9461	29.01	-.31	139142.100	2.0	141244.600	1.0
4755.3871	18.00	-2.93	121270.682	2.0	123372.987	2.0
4755.3984	10.01	-1.63	321423.230	4.5	323525.530	4.5
4755.4211	10.01	-3.07	321423.240	3.5	323525.530	4.5
4755.6472	28.01	-4.51	115870.280	2.5	117972.470	3.5
4755.6472	18.00	-2.67	122686.200	1.0	124788.390	1.0
4755.8509	30.02	-3.37	260418.100	2.0	262520.200	2.0
4756.0998	18.00	-1.43	122686.400	2.0	124788.390	1.0
4756.1902	18.01	-.24	200151.640	1.5	202253.590	1.5
4756.8013	14.00	-2.51	62545.100	1.0	64646.780	2.0
4757.0276	14.00	-2.03	62141.800	1.0	64243.380	2.0
4757.7973	23.00	-5.00	40452.380	5.5	42553.620	4.5
4757.9491	17.00	-.18	95706.534	1.5	97807.707	2.5
4758.2978	10.00	-3.86	169538.949	3.0	171639.968	2.0
4758.4540	12.01	-.60	112307.790	4.5	114408.740	4.5
4758.4540	12.01	1.14	112307.790	4.5	114408.740	5.5
4758.4540	12.01	1.05	112307.790	3.5	114408.740	4.5
4758.6126	26.02	-4.26	198337.060	3.0	200437.940	2.0
4759.0884	10.00	-.87	169727.630	1.0	171828.300	2.0
4759.3965	14.00	-1.57	57017.496	2.0	59118.030	3.0
4760.0695	18.00	-4.64	121161.356	1.0	123261.593	2.0
4760.2213	10.01	-1.20	321423.240	3.5	323523.410	2.5
4760.3982	14.00	-1.60	60706.558	1.0	62806.650	0.0
4760.6974	9.02	-1.60	442370.280	.5	444470.240	1.5
4760.7971	26.00	-4.25	54683.390	4.0	56783.306	3.0
4760.8108	18.00	-.97	120229.810	3.0	122329.720	3.0
4761.0601	7.00	-4.74	112957.700	1.5	115057.500	1.5
4761.0601	7.00	-3.03	112957.700	2.5	115057.500	1.5
4761.4002	18.00	-2.71	120230.070	2.0	122329.720	3.0
4761.5001	18.00	-4.43	122036.134	4.0	124135.740	3.0
4761.5001	18.00	-3.77	122036.134	4.0	124135.740	4.0
4761.9265	10.00	-3.63	169543.029	3.0	171642.447	3.0
4761.9423	10.00	-3.64	169543.036	4.0	171642.447	3.0
4762.1941	14.00	-2.84	60042.500	0.0	62141.800	1.0
4762.5798	29.01	-2.87	136799.300	2.0	138898.430	1.0
4762.5843	10.00	-3.37	169543.029	3.0	171642.157	2.0
4762.5866	28.00	-2.49	48735.308	2.0	50834.435	2.0
4763.1561	18.00	-2.70	122282.134	2.0	124381.010	2.0
4763.2741	18.00	-4.97	120619.076	2.0	122717.900	3.0
4763.2832	12.01	-2.42	112309.060	4.5	114407.880	4.5
4763.2832	12.01	-.68	112309.060	5.5	114407.880	4.5
4763.2832	12.01	-.77	112309.060	4.5	114407.880	3.5
4763.8507	24.00	-4.22	33935.650	2.0	36034.220	3.0
4763.9868	17.00	-2.44	97667.396	3.5	99765.906	2.5
4764.2344	9.00	-3.66	128122.719	1.5	130221.120	1.5
4764.3955	14.00	-2.74	60704.530	3.0	62802.860	3.0
4764.4182	18.00	-3.47	123254.990	1.0	125353.310	1.0
4765.1449	6.00	-1.84	86956.160	1.0	89054.160	2.0
4765.5993	13.01	-.83	145185.000	1.0	147282.800	1.0
4765.5993	13.01	-1.92	145185.000	2.0	147282.800	1.0
4765.5993	13.01	-.35	145185.000	1.0	147282.800	2.0
4765.5993	13.01	-.74	145185.000	2.0	147282.800	2.0
4765.5993	13.01	.01	145185.000	2.0	147282.800	3.0
4765.5993	13.01	-.62	145185.000	0.0	147282.800	1.0
4765.8696	26.00	-4.77	51969.140	3.0	54066.821	2.0
4766.0537	15.01	-3.69	129666.100	2.0	131763.700	1.0
4766.1922	7.00	.07	104716.920	3.5	106814.459	2.5
4766.3490	10.01	-3.38	321428.060	3.5	323525.530	4.5
4766.5081	29.01	-1.91	115569.200	5.0	117666.600	4.0
4766.5081	13.01	.06	132819.900	2.0	134917.300	1.0
4766.5081	13.01	-.42	132819.900	1.0	134917.300	1.0
4767.2354	14.00	-2.47	62519.660	2.0	64616.740	2.0
4767.2581	14.02	.77	240314.630	3.0	242411.700	4.0
4767.5559	10.00	-3.64	169543.029	3.0	171639.968	2.0
4768.0289	28.00	-1.08	48735.308	2.0	50832.039	3.0
4768.2359	14.02	-.29	240314.630	3.0	242411.270	3.0
4769.0093	14.00	-1.65	62226.390	1.0	64322.690	0.0
4769.1230	14.02	-1.84	240314.630	3.0	242410.880	2.0
4769.4643	28.01	-4.64	116732.510	2.5	118828.610	2.5
4769.7896	14.00	-.05	56690.903	2.0	58786.860	3.0
4770.2380	12.01	-1.98	112307.790	3.5	114403.550	3.5
4770.2380	12.01	-.43	112307.790	4.5	114403.550	3.5
4770.2380	12.01	-.55	112307.790	3.5	114403.550	2.5
4770.4884	10.01	-1.11	322075.340	3.5	324170.990	2.5
4770.5567	22.00	-1.66	37690.320	5.0	39785.940	4.0
4770.5886	20.00	-4.71	46164.644	2.0	48260.250	3.0
4770.8982	10.01	-1.98	322075.340	3.5	324170.810	3.5
4770.9096	20.00	-3.17	46164.785	3.0	48260.250	3.0
4770.9893	10.01	-.56	322075.380	4.5	324170.810	3.5
4771.1715	10.01	-.85	321428.060	3.5	323523.410	2.5
4771.1943	10.01	-1.48	321428.070	2.5	323523.410	2.5
4771.2693	7.00	-.11	104683.030	2.5	106778.337	1.5
4771.3331	20.00	-2.11	46164.971	4.0	48260.250	3.0
4771.6838	26.00	-4.77	47755.485	3.0	49850.610	3.0
4772.1052	28.01	-4.42	131834.940	2.5	133929.880	3.5
4772.5403	14.00	-.89	57541.918	1.0	59636.667	1.0
4772.8092	7.00	-.44	104664.100	1.5	106758.731	.5
4772.9482	10.00	-1.57	169727.630	1.0	171822.200	1.0
4773.0849	18.01	-.96	202420.490	.5	204515.000	.5
4773.1305	10.01	-.40	321431.040	5.5	323525.530	4.5
4773.1988	10.01	-1.69	322066.850	3.5	324161.310	3.5
4773.1988	10.01	-2.46	321431.040	5.5	323525.500	5.5
4773.2444	10.01	-.32	321431.060	6.5	323525.500	5.5
4773.2672	10.01	-3.34	322066.880	2.5	324161.310	3.5
4773.3128	7.00	-1.24	104886.070	.5	106980.480	.5
4773.4814	20.00	-3.22	46164.644	2.0	48258.980	2.0
4773.6866	18.00	-1.00	122282.134	2.0	124376.380	1.0
4773.8028	20.00	-2.32	46164.785	3.0	48258.980	2.0
4773.9510	10.01	-3.07	322066.850	3.5	324160.980	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4774.3386	22.00	-3.51	36065.750	3.0	38159.710	3.0
4774.7171	18.00	-2.25	120188.340	1.0	122282.134	2.0
4775.0318	20.00	-2.49	46164.644	2.0	48258.300	1.0
4775.0820	18.00	-4.48	121161.356	1.0	123254.990	1.0
4775.4470	18.00	-3.86	120188.660	2.0	122282.134	2.0
4775.4561	23.00	-4.78	39398.820	3.5	41492.290	3.5
4775.6614	6.00	-3.04	85625.180	0.0	87718.560	1.0
4775.8439	9.02	-2.02	464728.420	4.5	466821.720	3.5
4776.0721	6.01	-2.39	187701.000	4.5	189794.200	4.5
4776.0721	6.01	-.66	187701.000	5.5	189794.200	4.5
4776.0721	6.01	-.75	187701.000	4.5	189794.200	3.5
4776.8320	10.00	-1.52	168967.353	1.0	171060.220	2.0
4777.0078	10.01	-4.65	322068.520	4.5	324161.310	3.5
4777.3502	6.00	-3.20	87077.360	0.0	89170.000	1.0
4777.6767	26.00	-2.85	52019.706	1.0	54112.203	2.0
4777.8981	10.01	-.34	322068.580	5.5	324160.980	4.5
4778.0809	10.01	-.61	321422.850	4.5	323515.170	3.5
4778.9487	10.01	-1.85	321423.230	4.5	323515.170	3.5
4778.9716	10.01	-1.15	321423.240	3.5	323515.170	3.5
4779.2367	17.00	-.27	97674.092	3.5	99765.906	2.5
4779.4583	18.00	-2.73	123261.593	2.0	125353.310	1.0
4779.7804	17.00	-1.23	97674.330	2.5	99765.906	2.5
4780.0227	24.00	-4.57	53117.540	4.0	55209.010	4.0
4780.0684	22.00	-1.08	41988.390	3.0	44079.840	2.0
4780.4000	3.00	-2.45	38300.000	0.0	40391.875	0.0
4780.8799	26.00	-4.62	33765.291	2.0	35856.386	2.0
4780.9439	20.00	-1.00	46479.813	1.0	48570.880	2.0
4781.7146	18.00	-4.33	122601.290	1.0	124692.020	2.0
4781.7603	27.00	-4.24	53074.920	1.5	55165.630	2.5
4781.8975	10.01	-1.97	321422.850	4.5	323513.500	3.5
4781.9890	27.00	-1.19	44782.130	4.5	46872.740	3.5
4782.1263	10.01	-.71	322066.880	2.5	324157.430	1.5
4782.1332	10.00	-1.18	168967.353	1.0	171057.900	1.0
4782.7669	10.01	-.53	321423.230	4.5	323513.500	3.5
4782.7897	10.01	-3.26	321423.240	3.5	323513.500	3.5
4782.9728	10.01	-1.23	321422.850	4.5	323513.030	4.5
4783.0414	10.01	-.45	321422.880	5.5	323513.030	4.5
4783.1490	26.00	-3.94	31322.603	3.0	33412.706	3.0
4783.8425	10.01	-2.32	321423.230	4.5	323513.030	4.5
4783.8654	10.01	-2.44	321423.240	3.5	323513.030	4.5
4785.4363	18.00	-2.30	120619.076	2.0	122708.180	2.0
4785.9861	18.00	-1.17	120619.076	2.0	122707.940	3.0
4786.0182	10.01	-1.76	321434.560	2.5	323523.410	2.5
4786.3389	6.00	-2.20	86965.450	2.0	89054.160	2.0
4786.5681	24.01	-4.84	89337.700	1.5	91426.310	2.5
4786.5911	13.01	.17	140091.200	1.0	142179.800	1.0
4786.5911	13.01	.48	140091.200	2.0	142179.800	1.0
4786.5911	13.01	-.22	140091.200	0.0	142179.800	1.0
4786.8890	18.00	-3.64	119566.110	3.0	121654.580	2.0
4786.9807	28.01	-2.75	128853.870	2.5	130942.300	1.5
4787.4850	18.00	-2.76	119566.110	3.0	121654.320	3.0
4788.0812	22.00	-2.43	43744.550	4.0	45832.500	5.0
4788.2784	14.00	-2.04	60848.946	4.0	62936.810	4.0
4788.8839	15.00	-3.37	76045.900	2.5	78133.500	2.5
4789.3887	6.00	-2.13	87077.360	0.0	89164.740	1.0
4789.5951	18.00	-2.23	119566.110	3.0	121653.400	3.0
4789.5951	18.00	-1.46	119566.110	3.0	121653.400	4.0
4790.0082	10.01	-3.74	321428.060	3.5	323515.170	3.5
4790.0312	10.01	-3.19	321428.070	2.5	323515.170	3.5
4790.6876	14.00	-2.23	60848.946	4.0	62935.760	3.0
4791.0871	6.00	-2.62	86411.980	3.0	88498.620	2.0
4791.2479	6.00	-2.84	86412.050	2.0	88498.620	2.0
4791.4361	17.00	-3.16	100146.822	3.5	102233.310	2.5
4792.0058	28.01	-3.27	77736.790	4.5	79823.030	3.5
4792.1757	26.00	-4.46	45333.834	2.0	47420.000	2.0
4792.6260	10.01	-2.63	322075.340	3.5	324161.310	3.5
4792.6513	22.00	-3.79	37555.021	3.0	39640.980	3.0
4792.7179	10.01	-1.15	322075.380	4.5	324161.310	3.5
4793.0856	29.01	-.95	138898.430	1.0	140984.200	1.0
4793.1545	21.00	-3.05	36515.760	1.5	38601.500	1.5
4793.3843	10.01	-4.28	322075.340	3.5	324160.980	4.5
4793.4763	10.01	-1.52	322075.380	4.5	324160.980	4.5
4793.8440	10.01	-1.42	321428.060	3.5	323513.500	3.5
4793.8670	10.01	-2.87	321428.070	2.5	323513.500	3.5
4794.2671	18.00	-3.21	120600.944	2.0	122686.200	1.0
4794.4647	14.00	-1.12	61936.130	1.0	64021.300	2.0
4794.5567	21.00	-1.34	36572.800	2.5	38657.930	2.5
4794.6004	22.00	-4.69	33980.639	2.0	36065.750	3.0
4794.9247	10.01	-3.22	321428.060	3.5	323513.030	4.5
4795.5710	10.00	-1.19	168924.651	2.0	171009.340	1.0
4795.7757	29.01	-.39	139119.500	3.0	141204.100	3.0
4795.8953	14.00	-1.63	56690.903	2.0	58775.451	2.0
4796.6892	12.00	-3.41	58575.487	3.0	60659.690	2.0
4796.7606	12.00	-1.83	58575.518	3.0	60659.690	2.0
4796.7606	12.00	-3.29	58575.518	2.0	60659.690	2.0
4796.8573	6.00	-1.74	86414.490	3.0	88498.620	2.0
4797.0276	26.00	-4.81	49135.003	3.0	51219.059	3.0
4797.6836	17.00	-.42	98419.100	2.5	100502.871	1.5
4798.2156	19.00	-.39	32598.300	2.5	34681.840	1.5
4798.3446	20.00	-.12	44961.757	2.0	47045.241	3.0
4798.3883	14.00	-.56	56690.903	2.0	58774.368	3.0
4798.4459	6.00	-1.38	86491.410	1.0	88574.850	2.0
4798.5150	19.00	-1.34	32598.430	1.5	34681.840	1.5
4798.5150	19.00	-.64	32598.430	1.5	34681.840	.5
4799.2775	26.00	-4.01	45294.830	5.0	47377.909	4.0
4799.5355	26.00	-3.83	47377.909	4.0	49460.876	5.0
4799.7590	27.00	-2.27	46746.000	2.5	48828.870	2.5
4799.9503	22.00	-4.87	35577.140	2.0	37659.927	3.0
4800.0586	21.00	-4.26	37717.110	3.5	39799.850	3.5
4800.9530	20.00	-.39	44957.655	1.0	47040.007	2.0
4801.1651	18.00	-4.24	122609.760	1.0	124692.020	2.0
4801.2182	28.00	-3.59	48671.900	3.0	50754.137	2.0
4801.4787	26.00	-4.31	48531.896	3.0	50614.020	4.0
4801.7877	10.01	-2.45	321431.040	5.5	323513.030	4.5
4802.6874	19.02	-4.23	241039.000	1.5	243120.600	2.5
4803.1488	15.00	-.48	75689.200	1.5	77770.600	.5
4803.9613	26.00	-4.82	51148.892	2.0	53229.940	1.0
4804.3399	18.00	.71	116942.815	3.0	119023.699	4.0
4804.4646	25.00	-2.82	55405.140	2.5	57485.970	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4804.7024	20.00	-1.16	46301.973	1.0	48382.700	2.0
4804.9034	9.00	-3.62	128140.480	2.5	130221.120	1.5
4804.9726	10.01	-2.29	321434.560	2.5	323515.170	3.5
4805.0996	20.00	-.74	44955.670	0.0	47036.225	1.0
4805.4807	20.00	-1.89	46303.649	2.0	48384.039	3.0
4805.8966	18.00	-1.20	122708.180	2.0	124788.390	1.0
4806.7516	6.00	-3.11	87002.260	3.0	89082.100	3.0
4806.9364	18.00	-3.11	123254.990	1.0	125334.750	0.0
4807.3756	18.00	-3.76	120250.150	3.0	122329.720	3.0
4807.3756	18.00	-.28	120250.150	4.0	122329.720	3.0
4807.6299	12.00	-3.53	58580.230	1.0	60659.690	2.0
4808.0160	14.00	-3.11	61562.477	3.0	63641.770	3.0
4808.3883	20.00	-1.04	46303.649	2.0	48382.781	3.0
4808.5757	20.00	-1.96	46303.649	2.0	48382.700	2.0
4808.6012	6.00	-1.41	81769.790	2.0	83848.830	3.0
4808.7167	10.00	-2.09	167648.640	2.0	169727.630	1.0
4808.8116	26.00	-3.94	31686.342	2.0	33765.291	2.0
4808.8324	10.01	-4.71	321434.560	2.5	323513.500	3.5
4809.0406	28.01	-4.70	135628.410	4.5	137707.260	3.5
4809.6885	20.00	-.86	44957.655	1.0	47036.225	1.0
4809.8273	29.01	-2.44	134675.600	2.0	136754.110	2.0
4810.4244	14.00	-.36	56978.256	1.0	59056.508	1.0
4810.4290	20.00	-.86	44961.757	2.0	47040.007	2.0
4810.9383	9.02	-2.27	464223.930	1.5	466301.960	2.5
4811.0541	20.00	-4.68	46306.059	3.0	48384.039	3.0
4811.4245	21.00	-2.55	36492.820	.5	38570.640	.5
4811.4292	14.00	-1.67	61563.952	4.0	63641.770	3.0
4811.8414	6.00	-4.22	87002.260	3.0	89079.900	2.0
4811.9341	15.00	-3.99	78132.600	.5	80210.200	.5
4813.3241	27.00	-1.53	43847.980	3.5	45924.980	3.5
4813.6254	26.00	-3.78	53353.020	6.0	55429.890	5.0
4813.7181	28.01	-4.79	116732.510	2.5	118809.340	1.5
4813.9220	20.00	-.84	46306.059	3.0	48382.801	4.0
4813.9684	20.00	-1.90	46306.059	3.0	48382.781	3.0
4813.9962	27.00	-4.73	49484.050	3.5	51560.760	2.5
4814.1561	20.00	-3.44	46306.059	3.0	48382.700	2.0
4814.2953	20.00	-4.30	46182.399	3.0	48258.980	2.0
4814.7149	24.00	-4.39	33542.110	2.0	35618.510	1.0
4814.8611	10.00	-1.00	168967.353	1.0	171043.690	2.0
4815.1555	28.01	-3.12	134597.430	5.5	136673.640	4.5
4816.0602	6.00	-3.06	86482.780	2.0	88558.600	1.0
4816.1484	20.00	-.99	46308.257	2.0	48384.039	3.0
4816.3386	24.00	.31	45643.380	3.0	47719.080	4.0
4816.6682	17.00	-1.20	100146.822	3.5	102222.380	3.5
4816.8724	10.00	-4.76	169727.630	1.0	171803.100	2.0
4816.9884	28.01	-1.34	120044.950	4.5	122120.370	5.5
4816.9884	18.00	-4.48	121096.670	0.0	123172.090	1.0
4817.0581	6.00	-2.95	86469.510	3.0	88544.900	3.0
4817.3645	17.00	-.28	100146.822	3.5	102222.080	4.5
4817.4063	6.00	-1.62	86469.660	4.0	88544.900	3.0
4817.4967	14.00	-1.00	56700.250	1.0	58775.451	2.0
4817.5687	6.00	-1.84	86185.200	2.0	88260.370	2.0
4818.4952	26.00	-3.25	45061.287	3.0	47136.058	2.0
4818.7995	24.00	-4.54	30965.460	3.0	33040.100	2.0
4818.8413	7.00	-3.16	110245.183	.5	112319.805	1.5
4818.9017	18.00	-1.27	122282.134	2.0	124356.730	2.0
4818.9434	14.00	-4.03	58774.368	3.0	60848.946	4.0
4819.0689	20.00	-1.96	46308.257	2.0	48382.781	3.0
4819.1014	28.01	-2.61	136766.490	2.5	138841.000	3.5
4819.1990	20.00	-2.04	44961.757	2.0	47036.225	1.0
4819.2571	20.00	-2.76	46308.257	2.0	48382.700	2.0
4819.4731	22.00	-2.70	41901.360	1.0	43975.710	1.0
4819.8914	14.00	-2.49	61647.360	1.0	63721.530	2.0
4820.0076	26.01	-2.41	85462.780	3.5	87536.900	3.5
4820.7745	10.01	-4.34	303508.480	1.5	305582.270	.5
4821.0885	14.00	-1.82	61647.875	2.0	63721.530	2.0
4823.7193	26.00	-3.90	49297.660	1.0	51370.184	2.0
4824.3246	26.00	-4.65	52039.939	1.0	54112.203	2.0
4824.4223	28.00	-3.50	49271.578	3.0	51343.800	2.0
4824.4735	15.00	-4.64	78132.600	.5	80204.800	1.5
4824.9625	6.00	-2.47	87077.360	0.0	89149.350	1.0
4825.1954	6.00	-1.72	86469.510	3.0	88541.400	2.0
4825.2699	17.00	-2.62	100146.822	3.5	102218.680	2.5
4825.5844	26.00	-3.42	45964.944	2.0	48036.667	2.0
4825.7777	14.00	-1.70	62545.100	1.0	64616.740	2.0
4826.4067	24.00	-2.78	31352.420	1.0	33423.790	1.0
4826.5699	15.00	-2.94	78133.500	2.5	80204.800	1.5
4826.7562	9.02	-1.69	464223.930	1.5	466295.150	1.5
4827.7352	15.00	-1.05	75699.800	.5	77770.600	.5
4828.6679	7.00	-4.44	112946.600	.5	115017.000	.5
4828.6679	7.00	-4.58	112946.600	1.5	115017.000	1.5
4828.7612	28.01	-3.84	119315.440	2.5	121385.800	1.5
4828.9711	18.01	-3.65	203151.200	2.5	205221.470	1.5
4829.1578	27.00	-4.18	49197.740	4.5	51267.930	4.5
4830.0677	15.01	-2.33	127950.600	2.0	130020.400	3.0
4830.6278	28.01	-4.76	134053.050	2.5	136122.610	2.5
4830.6745	24.00	-3.68	48558.570	2.0	50628.110	3.0
4831.5383	14.00	-1.62	60856.630	1.0	62925.800	1.0
4832.5893	20.01	.49	79448.280	.5	81517.000	1.5
4832.6243	14.00	-.56	58893.400	3.0	60962.105	2.0
4832.8463	6.00	-1.51	86506.700	2.0	88575.310	3.0
4832.8930	27.00	-2.52	46375.170	1.5	48443.760	2.5
4832.9163	24.00	-2.53	31355.210	2.0	33423.790	1.0
4833.3837	6.00	-1.65	87103.120	1.0	89171.500	0.0
4833.4771	24.00	-4.97	33816.060	4.0	35884.400	5.0
4833.5939	6.00	-3.83	81769.790	2.0	83838.080	2.0
4833.8745	6.00	-1.12	86506.700	2.0	88574.870	3.0
4833.9212	6.00	-2.09	86506.700	2.0	88574.850	2.0
4834.1316	28.01	-4.37	131834.940	2.5	133903.000	1.5
4834.1549	22.00	-4.02	41515.090	4.0	43583.140	3.0
4834.2438	26.00	-4.51	44676.963	4.0	46744.975	3.0
4835.3941	26.02	-3.31	182379.860	5.0	184447.380	6.0
4835.6046	14.00	-1.60	61423.230	3.0	63490.660	3.0
4835.8525	18.00	-1.71	120619.076	2.0	122686.400	2.0
4836.3205	18.00	-2.65	120619.076	2.0	122686.200	1.0
4836.5170	14.00	-4.39	61647.360	1.0	63714.400	2.0
4836.8306	18.00	-2.50	122282.134	2.0	124349.040	3.0
4836.8914	6.00	-1.59	87103.120	1.0	89170.000	1.0
4837.1488	28.01	-3.24	116312.340	1.5	118379.110	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4837.1489	18.01	-2.54	208591.780	1.5	210658.550	1.5
4837.2659	28.01	-3.57	97273.830	2.5	99340.550	3.5
4837.6404	28.01	-4.18	120203.490	2.5	122270.050	3.5
4837.6872	26.00	-4.27	53840.680	6.0	55907.220	5.0
4837.7223	14.00	-3.34	61647.875	2.0	63714.400	2.0
4837.9213	18.01	-1.84	208592.110	.5	210658.550	1.5
4838.0992	10.00	-2.29	167639.561	1.0	169705.925	0.0
4838.3193	28.01	-4.97	134607.370	4.5	136673.640	4.5
4838.4598	14.00	-3.02	61423.230	3.0	63489.440	2.0
4838.5535	20.01	-1.88	86781.140	3.5	88847.310	3.5
4838.5535	20.01	-.34	86781.140	4.5	88847.310	3.5
4838.5535	20.01	-.45	86781.140	3.5	88847.310	2.5
4838.7175	15.01	-2.79	127600.000	1.0	129666.100	2.0
4838.8790	12.00	-1.30	59041.019	2.0	61107.050	2.0
4838.8790	12.00	-.74	59041.019	2.0	61107.050	3.0
4838.8790	12.00	-.62	59041.019	2.0	61107.050	3.0
4839.7013	14.00	-1.06	61423.230	3.0	63488.910	4.0
4839.7481	14.00	-3.62	62596.320	2.0	64661.980	3.0
4840.0059	18.00	-.29	123220.730	2.0	125286.280	1.0
4840.0059	18.01	-1.74	187589.230	2.5	189654.780	2.5
4840.3574	15.00	-2.90	77655.200	3.5	79720.600	4.5
4840.8027	24.00	.19	45643.380	3.0	47708.590	3.0
4841.8108	14.00	-2.57	61423.230	3.0	63488.010	3.0
4842.2329	19.02	-4.19	243947.400	1.5	246012.000	1.5
4842.2329	13.01	-.45	146185.000	3.0	148249.600	4.0
4842.5848	14.00	-1.39	60856.630	1.0	62921.080	2.0
4843.4059	13.01	-.98	146185.000	2.0	148249.100	3.0
4843.4059	13.01	-1.88	146185.000	3.0	148249.100	3.0
4843.6405	12.02	-3.43	582290.100	3.0	584354.100	2.0
4844.3447	13.01	-1.51	146185.000	2.0	148248.700	2.0
4844.3447	13.01	-.78	146185.000	1.0	148248.700	2.0
4844.3447	13.01	-3.06	146185.000	3.0	148248.700	2.0
4845.3542	14.00	-2.27	62231.990	2.0	64295.260	3.0
4845.4717	23.02	-3.32	162335.880	3.5	164399.100	3.5
4846.1340	7.00	-.80	105119.850	1.5	107182.788	1.5
4846.2233	8.03	-.81	591899.000	1.5	593961.900	2.5
4846.6932	23.00	-3.61	39597.010	4.5	41659.710	5.5
4847.1397	29.01	-2.75	116080.460	3.0	118142.970	3.0
4847.4382	26.00	-3.73	52049.820	2.0	54112.203	2.0
4847.5627	17.00	-1.99	100170.980	1.5	102233.310	2.5
4847.7743	6.00	-3.62	86482.660	3.0	88544.900	3.0
4848.1364	14.00	-4.27	58786.860	3.0	60848.946	4.0
4848.3386	29.01	-1.39	139142.100	2.0	141204.100	3.0
4848.4208	17.00	-2.96	97703.941	2.5	99765.906	2.5
4848.7853	22.00	-4.93	46974.650	5.0	49036.460	4.0
4849.2322	6.00	-2.23	87103.120	1.0	89164.740	1.0
4849.3498	26.02	-4.26	198333.760	6.0	200395.330	5.0
4850.7616	17.00	-2.19	92602.700	.5	94663.670	1.5
4851.2088	18.01	-1.52	200406.360	.5	202467.140	1.5
4851.4207	15.01	-1.81	103941.300	0.0	106001.990	1.0
4852.6641	20.00	-3.43	42744.716	2.0	44804.878	3.0
4852.8902	14.00	-2.76	58788.880	4.0	60848.946	4.0
4852.9279	6.00	-4.21	86498.550	1.0	88558.600	1.0
4853.1399	6.00	-4.38	86498.640	2.0	88558.600	1.0
4853.9646	28.01	-4.63	116838.330	1.5	118897.940	2.5
4854.5208	18.00	-4.30	121161.356	1.0	123220.730	2.0
4854.6953	7.00	-4.74	112957.700	1.5	115017.000	.5
4855.1904	28.01	-3.12	134614.550	5.5	136673.640	4.5
4855.2141	6.00	-1.91	87103.120	1.0	89162.200	2.0
4855.9923	26.02	-3.30	198336.580	5.0	200395.330	5.0
4856.0158	6.00	-3.08	86482.660	3.0	88541.400	2.0
4856.2046	9.02	-.38	464728.420	4.5	466787.080	4.5
4856.2258	12.00	-1.39	58476.689	0.0	60535.340	1.0
4856.2990	6.00	-3.69	86482.780	2.0	88541.400	2.0
4856.4522	14.00	-2.31	60815.925	2.0	62874.480	2.0
4857.0068	12.00	-1.51	58477.020	1.0	60535.340	1.0
4857.0068	12.00	-1.21	58477.020	1.0	60535.340	2.0
4857.0422	7.00	-2.99	104810.330	2.5	106868.635	3.5
4857.0658	12.00	-.46	54250.086	1.0	56308.381	2.0
4857.2899	12.02	-2.82	584733.400	3.0	586791.600	2.0
4858.0216	19.00	-.48	28127.850	2.5	30185.740	1.5
4858.3474	18.00	-1.55	119212.930	3.0	121270.682	2.0
4858.7535	12.00	-2.69	58477.760	2.0	60535.340	1.0
4858.7535	12.00	-1.69	58477.760	2.0	60535.340	2.0
4858.7535	12.00	-.76	58477.760	2.0	60535.340	3.0
4858.9637	20.00	-4.62	42747.387	3.0	44804.878	3.0
4859.1314	10.01	-4.50	303509.520	2.5	305566.940	1.5
4859.1786	7.00	-4.77	112946.600	1.5	115004.000	2.5
4859.2023	19.00	-.33	28127.850	3.5	30185.240	2.5
4859.2023	19.00	-1.63	28127.850	2.5	30185.240	2.5
4859.2967	28.01	-4.67	114836.630	3.5	116893.980	2.5
4860.3787	18.00	-4.71	122635.128	2.0	124692.020	2.0
4860.6198	6.00	-1.90	87113.210	2.0	89170.000	1.0
4860.6434	26.00	-3.88	52214.330	1.0	54271.110	1.0
4860.8088	26.02	-3.14	198338.620	4.0	200395.330	5.0
4860.8797	28.01	-4.46	52205.950	3.5	54262.630	3.5
4862.1090	23.00	-3.49	37342.660	2.5	39398.820	3.5
4862.6293	21.00	-2.58	33615.060	1.5	35671.000	1.5
4863.3035	12.00	-.93	54252.726	2.0	56308.381	2.0
4863.6465	22.00	-3.74	40556.070	1.0	42611.580	1.0
4863.6465	22.00	-4.24	37659.927	3.0	39715.437	3.0
4863.9305	28.01	-4.64	98276.700	4.5	100332.090	4.5
4863.9542	22.00	-2.63	42107.060	4.0	44162.440	4.0
4863.9542	6.00	-2.09	86519.470	1.0	88574.850	2.0
4864.5766	26.00	-3.28	36940.600	2.0	38995.717	1.0
4864.6027	14.00	-.98	58801.524	1.0	60856.630	1.0
4864.6169	25.00	-4.57	57305.620	3.5	59360.720	2.5
4865.1377	21.00	-1.97	36515.760	1.5	38570.640	.5
4865.2087	28.01	-3.68	134067.760	1.5	136122.610	2.5
4865.6065	28.00	-1.54	50142.800	3.0	52197.482	3.0
4866.6037	26.00	-3.35	51837.279	3.0	53891.540	3.0
4867.0799	24.00	.05	45643.380	3.0	47697.440	2.0
4867.4969	14.00	-2.12	56978.256	1.0	59032.140	2.0
4867.5420	28.00	-2.59	49403.420	1.0	51457.285	0.0
4867.6463	9.00	-2.69	128087.829	2.5	130141.650	1.5
4867.9331	12.02	-1.46	584737.900	2.0	586791.600	2.0
4868.0990	22.00	-4.07	34078.580	3.0	36132.210	4.0
4868.3835	22.00	-3.26	40670.600	2.0	42724.110	2.0
4869.9273	14.00	-3.76	61303.381	3.0	63356.240	2.0
4870.3045	13.01	-1.98	144524.300	1.0	146577.000	0.0
4870.3045	13.01	-1.59	144524.300	1.0	146577.000	1.0
4870.3045	13.01	-1.28	144524.300	1.0	146577.000	2.0
4871.1351	20.00	.49	40474.241	1.0	42526.591	2.0
4871.1968	18.00	-2.44	120229.810	3.0	122282.134	2.0
4871.8140	18.00	-.99	120230.070	2.0	122282.134	2.0
4872.0681	14.00	-3.04	61304.283	2.0	63356.240	2.0
4872.2033	6.00	-4.64	87002.260	3.0	89054.160	2.0
4872.6783	12.02	-1.59	584733.400	3.0	586785.100	3.0
4873.0821	6.00	-2.23	87113.210	2.0	89164.740	1.0
4873.4147	26.00	-4.74	49242.872	3.0	51294.262	3.0
4873.6522	18.00	-.79	122329.720	3.0	124381.010	2.0
4873.7710	6.00	-1.88	78731.270	1.0	80782.510	1.0
4873.8899	14.00	-2.96	61305.050	3.0	63356.240	2.0
4873.9611	14.00	-2.40	62596.320	2.0	64647.480	3.0
4875.0069	26.02	-3.92	198333.560	2.0	200384.280	3.0
4875.5870	18.00	-1.48	122086.974	2.0	124137.450	2.0
4875.6250	14.00	-2.26	62596.320	2.0	64646.780	2.0
4875.9104	6.00	-3.90	81769.790	2.0	83820.130	1.0
4875.9675	18.00	-3.84	122086.974	2.0	124137.290	3.0
4877.3852	20.01	.19	79448.280	.5	81498.000	.5
4877.4328	14.01	-1.04	124496.000	1.5	126545.700	.5
4877.4328	8.03	-1.02	591899.000	.5	593948.700	1.5
4877.4328	8.03	-1.41	591899.000	1.5	593948.700	1.5
4877.9088	15.00	-3.82	78133.500	2.5	80183.000	2.5
4877.9565	18.01	-.49	190507.360	1.5	192556.840	2.5
4878.8872	7.00	-.80	109856.520	1.5	111905.609	2.5
4879.1229	22.00	-.64	42184.660	4.0	44233.650	3.0
4879.1229	6.00	-1.14	87113.210	2.0	89162.200	2.0
4879.5182	7.00	-2.87	110245.183	.5	112294.007	.5
4879.6564	18.00	-.33	122086.974	2.0	124135.740	3.0
4881.2051	14.00	-4.65	47351.554	2.0	49399.670	1.0
4881.8152	18.01	-3.75	202467.140	1.5	204515.000	.5
4882.1967	17.00	-2.98	100170.980	1.5	102218.680	2.5
4882.5114	22.00	-4.88	43674.310	4.0	45721.878	4.0
4882.6903	26.00	-4.88	45913.480	3.0	47960.973	4.0
4882.9120	17.00	-2.85	100170.980	1.5	102218.380	1.5
4883.3414	26.02	-3.60	198337.060	3.0	200384.280	3.0
4883.4129	23.00	-3.52	38106.320	2.5	40153.510	2.5
4884.7491	27.00	-4.84	46671.940	2.5	48718.570	2.5
4885.7040	6.00	-2.66	87103.120	1.0	89149.350	1.0
4886.0145	12.02	-.17	584733.400	3.0	586779.500	4.0
4886.1816	18.01	-1.43	204585.640	2.5	206631.670	2.5
4887.0654	28.01	-2.69	115827.120	3.5	117872.780	2.5
4887.0654	26.02	-4.21	198338.620	4.0	200384.280	3.0
4887.0893	18.01	-.77	190511.190	2.5	192556.840	2.5
4887.0988	26.00	-3.51	49558.500	4.0	51604.146	3.0
4887.4237	27.00	-4.50	50925.110	1.5	52970.620	2.5
4887.9255	15.00	-.20	75689.200	1.5	77734.500	2.5
4888.2219	26.00	-4.68	45061.287	3.0	47106.463	4.0
4888.3557	23.00	-3.25	42020.930	3.5	44066.050	3.5
4888.7621	28.01	-4.70	93528.440	3.5	95573.390	3.5
4888.9534	19.00	-.71	30185.240	2.5	32230.110	1.5
4889.2331	26.00	-3.64	52067.450	2.0	54112.203	2.0
4889.5751	14.00	-1.18	60621.640	0.0	62666.250	1.0
4889.8381	12.02	-1.51	584733.400	3.0	586777.900	3.0
4889.8860	19.00	-.47	32598.300	2.5	34642.780	1.5
4889.9171	20.00	-.21	40474.241	1.0	42518.708	1.0
4890.1491	19.00	-1.66	30185.740	1.5	32230.110	1.5
4890.1586	14.00	-2.28	61597.404	3.0	63641.770	3.0
4890.1969	19.00	-1.42	32598.430	1.5	34642.780	1.5
4890.1969	19.00	-.72	32598.430	1.5	34642.780	.5
4890.2854	26.00	-4.59	52213.207	3.0	54257.520	2.0
4891.0343	13.01	-.67	145185.000	1.0	147229.000	1.0
4891.0343	13.01	-.36	145185.000	2.0	147229.000	1.0
4891.0343	13.01	-1.06	145185.000	0.0	147229.000	1.0
4891.3669	26.00	-2.98	44676.963	4.0	46720.824	4.0
4892.0994	7.00	-2.18	104825.080	2.5	106868.635	3.5
4892.7098	9.02	-1.55	464728.420	4.5	466771.720	3.5
4893.6200	18.00	-3.20	124046.640	4.0	126089.560	3.0
4893.9074	14.00	-1.38	61447.860	2.0	63490.660	3.0
4894.0033	6.00	-3.70	86498.640	2.0	88541.400	2.0
4894.2668	10.00	-3.82	170557.050	1.0	172599.700	0.0
4894.2764	12.00	-2.04	57855.214	1.0	59897.860	0.0
4894.2764	12.00	-1.57	57855.214	1.0	59897.860	1.0
4894.2764	12.00	-1.34	57855.214	1.0	59897.860	2.0
4894.6502	6.00	-2.87	87113.210	2.0	89155.700	3.0
4895.8080	22.00	-3.29	37743.933	3.0	39785.940	4.0
4895.8559	10.00	-1.91	168967.353	1.0	171009.340	1.0
4896.0165	25.00	-2.83	57485.970	2.5	59527.890	1.5
4896.0645	29.01	-4.20	137077.600	3.0	139119.500	3.0
4896.3211	20.00	-1.27	37298.287	2.0	39340.080	2.0
4896.5441	19.00	-.96	30185.740	1.5	32227.440	.5
4896.7840	30.02	-4.33	302908.500	4.0	304950.100	5.0
4896.8319	14.00	-2.02	61447.860	2.0	63489.440	2.0
4896.9039	19.00	-1.39	31695.890	2.5	33737.440	1.5
4897.0238	15.00	-.55	75905.100	2.5	77946.600	2.5
4897.2637	7.00	-3.38	112946.600	1.5	114988.000	1.5
4897.2637	7.00	-2.96	112946.600	1.5	114988.000	.5
4897.4556	18.01	-.69	202544.320	2.5	204585.640	2.5
4897.5276	19.00	-2.34	31696.150	1.5	33737.440	1.5
4898.1755	22.00	-4.32	39214.380	3.0	41255.400	4.0
4898.6339	7.00	-1.19	104996.240	1.5	107037.069	2.5
4898.6363	7.00	-.73	109812.233	.5	111853.061	1.5
4899.1740	20.00	-.21	40474.241	1.0	42514.845	0.0
4899.5438	19.00	-1.64	31696.150	1.5	33736.600	.5
4899.6638	15.00	-1.57	78132.600	.5	80173.000	.5
4899.8848	17.00	-2.56	95313.749	1.5	97354.057	1.5
4900.2643	14.00	-1.28	61447.860	2.0	63488.010	3.0
4900.6246	12.02	-.32	584737.900	2.0	586777.900	3.0
4900.6726	18.01	-4.46	189934.550	.5	191974.530	1.5
4900.7951	26.00	-4.96	46888.494	2.0	48928.423	2.0
4901.4174	27.00	-4.60	44183.340	4.5	46223.010	4.5
4901.7299	6.00	-1.66	87103.120	1.0	89142.660	2.0
4902.5640	22.00	-4.36	39302.360	4.0	41341.553	5.0
4902.7683	7.00	-4.28	105143.680	2.5	107182.788	1.5
4902.9991	14.00	-1.14	57017.496	2.0	59056.508	1.0
4903.0040	28.01	-4.41	116275.810	3.5	118314.820	2.5
4903.5811	28.00	-4.42	49086.030	4.0	51124.800	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4903.6052	28.01	-4.16	116838.330	1.5	118877.090	1.5
4903.8217	7.00	-2.84	112965.330	3.5	115004.000	3.5
4903.9853	20.00	-4.55	42919.053	2.0	44957.655	1.0
4904.2066	24.00	-3.25	36558.550	2.0	38597.060	1.0
4904.6637	21.00	-2.47	33707.250	2.5	35745.570	2.5
4904.6685	26.00	-4.53	43022.969	4.0	45061.287	3.0
4904.7840	18.01	-1.59	208591.780	1.5	210630.050	2.5
4905.0488	18.01	-.39	204585.640	2.5	206623.800	3.5
4905.1449	18.00	-3.61	124051.440	3.0	126089.560	3.0
4905.1449	14.00	.01	57468.239	2.0	59506.359	2.0
4905.6504	18.00	-4.51	124051.650	2.0	126089.560	3.0
4906.0116	23.00	-4.97	39398.820	3.5	41436.580	3.5
4906.8543	26.02	-4.08	182379.860	5.0	184417.270	5.0
4907.0735	14.00	-2.37	61303.381	3.0	63340.700	3.0
4907.0952	26.00	-4.99	54555.450	4.0	56592.760	4.0
4907.1193	13.01	.45	142601.600	3.0	144638.900	2.0
4907.1193	13.01	-.45	142601.600	3.0	144638.900	3.0
4907.7576	20.00	-.84	37298.287	2.0	39335.322	1.0
4907.9865	28.01	-3.37	117872.780	2.5	119909.720	1.5
4907.9866	7.00	-2.14	112967.060	4.5	115004.000	3.5
4908.1070	28.01	-2.30	113172.960	4.5	115209.850	3.5
4908.2516	7.00	-3.51	112967.170	3.5	115004.000	3.5
4908.2757	18.01	.55	200393.020	4.5	202429.840	3.5
4908.6131	24.00	-3.36	53172.330	5.0	55209.010	4.0
4909.0904	16.00	-.58	76655.408	2.0	78691.890	1.0
4909.2470	14.00	-3.66	61304.283	2.0	63340.700	3.0
4909.9148	6.00	-3.82	87113.210	2.0	89149.350	1.0
4909.9148	9.00	-4.56	128338.720	.5	130374.860	1.5
4909.9390	9.00	-2.70	128184.990	.5	130221.120	1.5
4910.8169	16.00	-.25	76655.374	4.0	78691.140	3.0
4910.8314	16.00	-1.31	76655.380	3.0	78691.140	3.0
4910.8990	16.00	-2.86	76655.408	2.0	78691.140	3.0
4911.0967	14.00	-4.58	61305.050	3.0	63340.700	3.0
4911.5552	18.00	-1.82	124054.100	3.0	126089.560	3.0
4911.9413	16.00	-.41	76655.380	3.0	78690.680	2.0
4912.0089	16.00	-1.31	76655.408	2.0	78690.680	2.0
4914.0901	28.00	-1.64	48671.900	3.0	50706.310	4.0
4914.6361	18.00	-.92	120600.944	2.0	122635.128	2.0
4915.1121	14.00	-1.59	61306.713	4.0	63340.700	3.0
4915.2498	25.00	-3.23	57305.620	3.5	59339.550	3.5
4915.6535	22.00	-2.18	17540.205	3.0	19573.968	4.0
4916.3134	19.00	-1.15	32648.350	.5	34681.840	1.5
4916.3134	19.00	-1.45	32648.350	.5	34681.840	.5
4917.1114	14.00	-3.37	62318.700	0.0	64351.860	1.0
4917.1597	27.00	-3.00	46685.430	1.5	48718.570	2.5
4917.1597	6.00	-.23	79310.850	2.0	81343.990	2.0
4918.4903	28.01	-3.33	98276.700	4.5	100309.290	5.5
4919.0009	26.00	-3.63	49804.900	3.0	51837.279	3.0
4919.3373	28.01	-4.02	113177.610	3.5	115209.850	3.5
4919.9571	18.00	-.30	120250.150	3.0	122282.134	2.0
4920.4148	28.00	-1.78	47139.392	2.0	49171.187	1.0
4921.0082	28.01	-4.66	134642.090	3.5	136673.640	4.5
4921.3570	26.00	-3.34	45061.287	3.0	47092.693	3.0
4921.6381	18.00	.71	123254.990	1.0	125286.280	1.0
4921.6865	12.01	-.28	112301.470	2.5	114332.740	1.5
4921.7107	26.00	-3.92	53874.300	5.0	55905.560	4.0
4921.8319	12.01	-.12	112301.470	3.5	114332.680	2.5
4921.8319	12.01	-1.43	112301.470	2.5	114332.680	2.5
4921.8561	18.00	-4.05	124058.360	3.0	126089.560	3.0
4921.8561	18.00	-3.93	124058.360	4.0	126089.560	3.0
4922.7528	24.00	-4.55	33542.110	2.0	35572.940	2.0
4922.8255	8.03	-.63	591962.000	2.5	593992.800	3.5
4923.0923	6.00	-1.02	87113.210	2.0	89143.900	3.0
4923.8003	17.00	-.13	94973.683	.5	97004.081	1.5
4924.0379	7.00	-4.36	112957.700	2.5	114988.000	3.5
4924.5230	14.01	-.86	124496.000	2.5	126526.100	1.5
4924.5230	14.01	-1.82	124496.000	1.5	126526.100	1.5
4924.8893	28.00	-2.12	49313.851	3.0	51343.800	2.0
4925.4935	15.00	-.22	75813.600	.5	77843.300	1.5
4926.1002	6.00	-3.28	87113.210	2.0	89142.660	2.0
4926.5226	18.00	-1.05	117183.654	2.0	119212.930	3.0
4926.9256	6.00	-2.97	86469.510	3.0	88498.620	2.0
4926.9499	15.00	-.49	75705.400	3.5	77734.500	2.5
4927.7757	18.00	-2.74	122686.400	2.0	124715.160	3.0
4927.9214	21.00	-1.50	36572.800	2.5	38601.500	1.5
4928.1643	27.00	-1.49	43847.980	3.5	45876.580	2.5
4928.2882	7.00	-.45	105008.520	2.5	107037.069	2.5
4930.2787	25.00	-2.03	47387.620	3.5	49415.350	2.5
4930.7991	26.00	-3.53	50186.814	2.0	52214.330	1.0
4930.8380	22.00	-4.28	36132.210	4.0	38159.710	3.0
4931.3975	28.01	-3.87	131834.940	2.5	133862.210	1.5
4931.7624	22.00	-.75	42052.720	3.0	44079.840	2.0
4932.0300	18.00	-1.69	122329.720	3.0	124356.730	2.0
4932.0665	20.00	-2.82	35730.454	2.0	37757.449	3.0
4933.0618	17.00	-1.98	97739.320	1.5	99765.906	2.5
4933.6340	9.00	-2.52	128122.719	1.5	130149.070	.5
4933.9481	7.00	-3.70	110710.739	2.5	112736.961	1.5
4934.0674	22.00	-3.60	37659.927	3.0	39686.100	2.0
4934.4888	15.01	-2.43	127600.000	1.0	129626.000	1.0
4935.2438	14.00	-3.20	62226.390	1.0	64252.080	2.0
4936.0723	28.01	-2.70	96535.870	3.5	98561.220	2.5
4936.1674	20.00	-.41	44989.830	2.0	47015.141	3.0
4936.4135	6.00	-.70	79318.780	1.0	81343.990	2.0
4936.5891	17.00	-1.91	95313.749	1.5	97338.887	2.5
4937.5351	28.01	-4.33	108548.610	1.5	110573.360	2.5
4937.6887	18.00	-1.48	123261.593	2.0	125286.280	1.0
4937.9009	14.00	-1.47	61617.170	4.0	63641.770	3.0
4938.5863	18.00	-2.79	114975.070	1.0	116999.389	2.0
4938.6668	14.00	-2.15	60645.441	2.0	62669.727	2.0
4938.8767	26.00	-3.25	50043.250	1.0	52067.450	2.0
4940.0407	14.00	-.35	60645.441	2.0	62669.164	3.0
4940.3655	10.01	-3.98	301801.090	3.5	303824.680	2.5
4940.6609	17.00	-1.58	100502.871	1.5	102526.340	2.5
4940.9026	27.00	-2.31	45105.590	3.5	47128.960	2.5
4941.0345	26.00	-4.91	51739.964	2.0	53763.280	3.0
4941.0736	18.00	-2.85	124041.200	1.0	126064.500	2.0
4941.0858	12.00	-.97	57017.724	1.0	59041.019	2.0
4941.3911	14.00	-2.04	61595.430	1.0	63618.600	0.0
4941.4644	10.01	-2.59	301801.090	3.5	303824.230	3.5
4941.5131	18.00	-2.02	124041.380	2.0	126064.500	2.0
4941.5327	22.00	-1.79	37617.868	4.0	39640.980	3.0
4941.5620	15.00	-2.09	76045.900	2.5	78069.000	1.5
4942.5637	8.01	-4.23	253789.510	.5	255812.200	1.5
4942.6125	7.00	-2.90	112965.330	3.5	114988.000	3.5
4943.3164	14.00	-.91	60645.441	2.0	62667.823	3.0
4943.3213	29.01	-3.04	134743.000	4.0	136765.380	4.0
4943.6977	18.00	-2.34	122036.134	4.0	124058.360	3.0
4943.6977	18.00	-.80	122036.134	4.0	124058.360	4.0
4944.2650	12.00	-1.45	57019.025	2.0	59041.019	2.0
4944.5438	26.00	-4.28	52857.840	1.0	54879.720	2.0
4945.3509	26.00	-3.65	50045.900	2.0	52067.450	2.0
4945.6861	20.00	-2.78	35730.454	2.0	37751.867	2.0
4945.9234	13.00	-2.07	44919.654	.5	46940.970	1.5
4945.9797	17.00	-1.40	100166.217	3.5	102187.510	2.5
4946.0849	6.00	-2.85	81769.790	2.0	83791.040	2.0
4946.1339	8.01	-4.08	253791.870	1.5	255813.100	2.5
4946.4593	14.00	-.31	56780.427	1.0	58801.524	1.0
4946.6967	15.01	-2.72	130143.300	3.0	132164.300	2.0
4946.8436	7.00	-2.17	112967.060	4.5	114988.000	3.5
4947.1129	7.00	-4.76	112967.170	3.5	114988.000	2.5
4947.1129	7.00	-3.55	112967.170	3.5	114988.000	3.5
4947.3259	22.00	-4.58	39149.260	2.0	41170.003	3.0
4948.1168	14.00	-2.83	62596.320	2.0	64616.740	2.0
4948.3372	8.01	-4.83	253791.870	1.5	255812.200	1.5
4948.4719	13.00	-1.81	44921.275	1.5	46941.550	2.5
4948.9251	14.00	-2.31	62231.990	2.0	64252.080	2.0
4949.4396	28.01	-2.82	120250.170	3.5	122270.050	3.5
4949.4641	29.01	-1.87	136799.300	2.0	138819.170	3.0
4949.8808	15.00	-3.26	77843.900	2.5	79863.600	3.5
4949.8930	13.00	-2.77	44921.275	1.5	46940.970	1.5
4949.9592	28.00	-1.31	47139.392	2.0	49159.060	2.0
4950.0817	20.00	.58	42743.002	1.0	44762.620	2.0
4950.3734	7.00	-.04	105017.570	3.5	107037.069	2.5
4950.4690	18.00	-1.47	122695.700	4.0	124715.160	3.0
4950.8122	18.00	-1.51	122329.720	3.0	124349.040	3.0
4950.9593	28.01	-4.08	134527.240	3.5	136546.500	4.5
4951.3517	28.01	-3.64	114874.880	2.5	116893.980	2.5
4951.5626	18.00	-3.69	114641.040	2.0	116660.054	1.0
4951.7661	9.00	-3.70	128122.719	1.5	130141.650	1.5
4952.0163	28.00	-1.55	48735.308	2.0	50754.137	2.0
4952.2518	10.00	-4.98	167795.897	3.0	169814.630	2.0
4953.0517	22.00	-2.44	37622.573	3.0	39640.980	3.0
4953.1670	28.01	-4.58	116275.810	3.5	118294.170	3.5
4953.5155	22.00	-2.30	20062.980	1.0	22081.198	2.0
4953.7487	20.00	.75	42744.716	2.0	44762.839	3.0
4954.0015	18.00	-.98	123773.920	3.0	125791.940	2.0
4954.1341	18.00	-1.47	122036.134	4.0	124054.100	3.0
4954.1734	22.01	-4.66	67604.200	3.5	69622.150	2.5
4954.2863	20.00	-.15	42744.716	2.0	44762.620	2.0
4954.4189	14.00	-.46	60856.630	1.0	62874.480	2.0
4954.6816	20.00	-.55	35730.454	2.0	37748.197	1.0
4954.8609	17.00	-4.19	100169.840	3.5	102187.510	2.5
4955.2784	17.00	-1.80	100170.010	2.5	102187.510	2.5
4956.0153	22.00	-.75	41958.510	2.0	43975.710	1.0
4956.5313	14.00	-1.94	62226.390	1.0	64243.380	2.0
4956.9123	28.00	-1.81	48817.600	1.0	50834.435	2.0
4956.9737	28.01	-4.03	132225.150	1.5	134241.960	.5
4957.8587	20.00	-.28	44989.830	2.0	47006.280	3.0
4957.8931	17.00	-2.09	99517.994	4.5	101534.430	4.5
4957.8931	17.00	-.36	99517.994	4.5	101534.430	5.5
4958.0701	20.00	-1.19	44989.830	2.0	47006.194	2.0
4958.1045	10.00	-3.39	170557.050	1.0	172573.400	2.0
4958.8374	18.00	-.80	120619.076	2.0	122635.128	2.0
4959.0760	28.00	-2.72	49327.845	2.0	51343.800	2.0
4959.1621	18.00	-1.30	123815.530	1.0	125831.450	0.0
4959.3590	6.00	-3.57	86482.780	2.0	88498.620	2.0
4959.5558	28.01	-4.47	115956.710	2.5	117972.470	3.5
4959.6271	20.00	.91	42747.387	3.0	44763.118	4.0
4960.3137	20.00	-.15	42747.387	3.0	44762.839	3.0
4960.6730	18.00	-.36	123468.034	1.0	125483.340	2.0
4960.6730	18.00	-2.08	122036.134	4.0	124051.440	3.0
4960.8528	20.00	-1.69	42747.387	3.0	44762.620	2.0
4961.3279	28.01	-2.19	134658.600	4.5	136673.640	4.5
4961.6480	6.00	-1.12	79310.850	2.0	81325.760	1.0
4962.1405	22.00	-2.75	40844.190	3.0	42858.900	3.0
4962.3031	14.00	-.27	57017.496	2.0	59032.140	2.0
4962.8524	18.00	-3.56	122635.128	2.0	124649.549	3.0
4962.9017	14.00	-2.97	58801.524	1.0	60815.925	2.0
4963.5694	18.01	-.62	200406.360	.5	202420.490	.5
4964.1634	26.00	-3.44	49135.003	3.0	51148.892	2.0
4964.4321	26.00	-4.07	52257.330	0.0	54271.110	1.0
4964.5308	6.00	-1.70	87077.360	0.0	89091.100	1.0
4966.2077	18.00	-1.50	124051.440	3.0	126064.500	2.0
4966.3064	6.00	-2.54	86185.200	2.0	88198.220	2.0
4966.5038	23.00	-4.58	38106.320	2.5	40119.260	2.5
4966.7259	18.00	-2.32	124051.650	2.0	126064.500	2.0
4967.0220	28.01	-4.97	133973.330	2.5	135986.060	3.5
4967.1454	28.01	-2.88	128803.230	2.5	130815.910	3.5
4968.5451	20.00	-2.11	45425.358	1.0	47437.471	0.0
4968.7994	18.00	-3.99	124041.200	1.0	126053.210	2.0
4969.2440	18.00	-4.06	124041.380	2.0	126053.210	2.0
4969.3527	17.00	-4.96	95700.874	3.5	97712.660	4.5
4969.5849	7.00	-1.13	104984.340	.5	106996.032	1.5
4969.6639	26.00	-1.24	49558.500	4.0	51570.160	3.0
4970.3310	14.00	-1.46	62231.990	2.0	64243.380	2.0
4971.0972	28.01	-4.87	133734.980	3.5	135746.060	3.5
4971.4185	22.00	-1.98	44233.650	3.0	46244.600	2.0
4971.6163	28.01	-4.70	133735.260	2.5	135746.130	1.5
4971.9526	18.00	-4.63	121161.356	1.0	123172.090	1.0
4972.5164	18.00	-1.48	122036.134	4.0	124046.640	4.0
4972.5164	18.00	.15	122036.134	4.0	124046.640	5.0
4972.5313	15.00	-1.79	75833.400	2.5	77843.900	2.5
4972.7786	18.00	-2.72	124054.100	3.0	126064.500	2.0
4972.8776	29.01	-4.91	146051.340	2.0	148061.700	3.0
4973.2981	18.01	-1.85	201720.670	1.5	203730.860	1.5
4974.6345	28.01	-4.32	119315.440	2.5	121325.090	2.5
4975.7982	28.01	-4.18	134539.370	2.5	136548.550	2.5
4975.8700	13.00	-2.83	43335.013	.5	45344.164	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
4976.4917	28.01	-4.60	120166.520	1.5	122175.420	2.5
4976.6997	18.00	-3.39	120600.944	2.0	122609.760	1.0
4978.5982	6.00	-1.94	87077.360	0.0	89085.410	1.0
4978.6726	26.01	-3.86	85462.780	3.5	87470.800	4.5
4979.0371	14.00	-2.58	45276.188	1.0	47284.061	1.0
4979.3173	28.01	-4.35	134539.370	2.5	136547.130	3.5
4979.4140	13.00	-2.58	43337.877	1.5	45345.598	2.5
4979.4165	27.00	-4.43	46746.000	2.5	48753.720	1.5
4979.5430	17.00	-2.28	97703.640	1.5	99711.309	.5
4979.8208	17.00	-4.34	97674.330	2.5	99681.887	1.5
4979.9374	26.02	-5.00	184447.380	6.0	186454.890	5.0
4980.6569	18.00	-1.50	122707.940	3.0	124715.160	3.0
4980.9547	6.00	-3.53	86185.200	2.0	88192.300	1.0
4981.2525	6.00	-.68	79318.780	1.0	81325.760	1.0
4981.2525	18.00	-3.22	122708.180	2.0	124715.160	3.0
4981.4511	24.00	-3.24	31106.370	4.0	33113.270	4.0
4981.7490	14.00	-.75	62376.820	3.0	64383.600	4.0
4982.2703	26.00	-3.69	50043.250	1.0	52049.820	2.0
4982.9731	13.00	-3.53	43337.877	1.5	45344.164	1.5
4983.3382	18.00	-2.67	124058.360	3.0	126064.500	2.0
4983.6612	27.00	-3.40	49197.740	4.5	51203.750	5.5
4984.1332	18.00	-2.82	122686.200	1.0	124692.020	2.0
4984.3072	10.00	-4.09	170557.050	1.0	172562.800	1.0
4984.3569	29.01	-1.74	133727.870	2.0	135733.600	3.0
4984.4339	28.00	-2.38	48671.900	3.0	50677.599	3.0
4984.6303	18.00	-4.49	122686.400	2.0	124692.020	2.0
4985.4754	28.01	-2.68	103663.500	1.5	105668.780	2.5
4986.5696	24.00	-3.25	42254.520	2.0	44259.360	3.0
4986.8681	18.01	-1.73	172816.210	.5	174820.930	.5
4987.1168	26.02	-3.76	182412.650	4.0	184417.270	5.0
4988.3387	7.00	-2.24	104810.330	2.5	106814.459	2.5
4989.0830	29.01	-3.28	115662.770	4.0	117666.600	4.0
4989.2423	17.00	-4.22	99517.994	4.5	101521.760	3.5
4990.2982	17.00	-1.23	99517.994	4.5	101521.336	4.5
4990.3282	24.00	-2.89	46783.060	4.0	48786.390	5.0
4990.9012	24.00	-3.33	42256.260	3.0	44259.360	3.0
4990.9261	27.00	-2.78	43921.890	2.5	45924.980	3.5
4990.9834	17.00	-1.05	95700.874	3.5	97703.941	2.5
4991.3746	28.01	-3.39	134539.370	2.5	136542.280	3.5
4991.3995	29.01	-.38	138981.300	2.0	140984.200	1.0
4992.1472	6.00	-.67	79323.160	0.0	81325.760	1.0
4992.3966	28.01	-2.65	115870.280	2.5	117872.780	2.5
4992.7706	23.00	-4.75	39597.010	4.5	41599.360	4.5
4992.7706	6.00	-2.74	86331.630	1.0	88333.980	0.0
4992.9201	17.00	-2.78	100185.220	1.5	102187.510	2.5
4993.4339	17.00	-3.05	100185.426	2.5	102187.510	2.5
4994.2172	18.00	-3.61	124051.440	3.0	126053.210	2.0
4994.2971	17.00	-2.42	97666.650	4.5	99668.388	3.5
4994.5166	22.00	-4.67	46838.090	4.0	48839.740	3.0
4994.7411	18.00	-2.86	124051.650	2.0	126053.210	2.0
4995.1704	28.00	-4.69	50039.180	2.0	52040.568	2.0
4995.4150	9.00	-1.93	128219.830	1.5	130221.120	1.5
4995.5398	28.01	-2.48	120268.810	3.5	122270.050	3.5
4995.7146	9.00	-2.60	128140.480	2.5	130141.650	1.5
4996.1589	17.00	-3.78	97667.396	3.5	99668.388	3.5
4997.1379	20.00	-1.55	46258.380	1.0	48258.980	2.0
4997.6375	22.00	-8.24	14105.680	3.0	16106.080	4.0
4997.7724	18.00	.05	120600.944	2.0	122601.290	1.0
4998.6871	6.00	-4.44	86498.640	2.0	88498.620	2.0
4998.8370	20.00	-2.03	46258.380	1.0	48258.300	1.0
4998.8870	8.03	-1.31	591962.000	2.5	593961.900	2.5
4998.9120	11.00	-1.30	38540.180	.5	40540.070	1.5
4999.1570	7.00	-.50	104996.240	1.5	106996.032	1.5
4999.2370	18.01	-1.77	201345.220	1.5	203344.980	1.5
4999.9370	20.00	-1.32	46260.770	2.0	48260.250	3.0
5000.7874	11.00	-1.04	38540.930	1.5	40540.070	2.5
5000.7874	11.00	-2.00	38540.930	1.5	40540.070	1.5
5000.8625	18.00	-3.37	124054.100	3.0	126053.210	2.0
5001.1501	28.00	-1.26	47328.850	2.0	49327.845	2.0
5001.3878	8.03	-.48	592046.000	3.5	594044.900	4.5
5001.4579	17.00	-.74	94732.300	3.5	96731.172	3.5
5002.2137	26.02	-4.47	182418.700	4.0	184417.270	5.0
5002.2612	17.00	-2.38	99534.419	.5	101532.970	1.5
5002.3889	28.01	-3.31	128732.030	1.5	130730.530	2.5
5002.9646	29.01	-4.68	146107.330	5.0	148105.600	4.0
5003.1148	20.00	-2.03	46260.770	2.0	48258.980	2.0
5003.4404	28.01	-3.35	120271.970	2.5	122270.050	3.5
5003.7159	19.00	-.53	32598.300	2.5	34596.270	1.5
5004.0414	19.00	-1.48	32598.430	1.5	34596.270	1.5
5004.0414	19.00	-.78	32598.430	1.5	34596.270	.5
5004.3169	18.00	-2.80	121470.304	0.0	123468.034	1.0
5004.3345	22.00	-2.40	17423.853	2.0	19421.576	3.0
5004.5500	13.00	-2.47	45194.663	3.5	47192.300	2.5
5004.5500	13.00	-3.77	45194.663	2.5	47192.300	2.5
5004.8180	20.00	-3.20	46260.770	2.0	48258.300	1.0
5004.8431	28.01	-1.88	120272.530	4.5	122270.050	3.5
5004.9683	18.01	-.81	200151.640	1.5	202149.110	2.5
5005.3067	14.00	-1.11	60815.925	2.0	62813.260	1.0
5005.4946	18.00	-3.80	122717.900	3.0	124715.160	3.0
5005.4946	18.00	-.82	122717.900	4.0	124715.160	3.0
5006.7981	18.01	-.41	202420.490	.5	204417.230	1.5
5006.9260	26.00	-4.25	50043.250	1.0	52039.939	1.0
5007.2972	7.00	-1.75	109856.520	1.5	111853.061	1.5
5007.4251	28.01	-4.99	127991.560	3.5	129988.050	2.5
5007.6508	27.00	-4.88	51199.580	3.5	53195.980	2.5
5007.6659	11.00	.32	35040.380	.5	37036.774	1.5
5008.3031	7.00	-.74	104984.340	.5	106980.480	.5
5008.7322	22.00	-3.43	34204.971	4.0	36200.940	5.0
5008.9806	29.01	-4.78	146107.330	4.0	148103.200	3.0
5010.2107	27.00	-4.66	51200.600	1.5	53195.980	2.5
5010.3613	22.00	-4.12	44162.440	4.0	46157.760	5.0
5011.5418	18.00	-2.64	124058.360	3.0	126053.210	2.0
5011.5920	25.00	-3.98	57485.970	2.5	59480.800	2.5
5012.5972	19.00	-1.23	32648.350	.5	34642.780	1.5
5012.5972	19.00	-1.53	32648.350	.5	34642.780	.5
5012.8988	27.00	-4.00	46223.010	4.5	48217.320	3.5
5012.9340	17.00	-.97	97674.092	3.5	99668.388	3.5
5013.1828	18.00	-4.45	122609.760	1.0	124603.957	2.0
5013.2834	14.00	-2.49	62667.823	3.0	64661.980	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5013.4015	15.01	-4.00	101636.490	1.0	103630.600	2.0
5013.5323	17.00	-2.51	97674.330	2.5	99668.388	3.5
5013.8692	11.00	-.38	35042.850	1.5	37036.774	1.5
5013.9195	11.00	.58	35042.850	1.5	37036.754	2.5
5013.9421	14.00	-3.75	61647.875	2.0	63641.770	3.0
5013.9798	27.00	-4.85	48718.570	2.5	50712.450	2.5
5014.3319	10.00	-4.63	170578.390	1.0	172572.130	2.0
5014.7344	12.01	.60	110203.580	.5	112197.160	1.5
5015.1117	18.01	-.23	201351.550	2.5	203344.980	1.5
5015.3130	29.01	-4.24	146072.950	2.0	148066.300	2.0
5015.6149	29.01	-.68	137034.970	3.0	139028.200	2.0
5015.7659	24.00	-3.24	48661.590	3.0	50654.760	2.0
5016.6569	14.00	-3.18	62669.164	3.0	64661.980	3.0
5016.6946	14.00	-1.44	62669.179	4.0	64661.980	3.0
5017.6036	10.00	-4.70	170578.390	1.0	172570.830	1.0
5018.0746	14.00	-3.80	62669.727	2.0	64661.980	3.0
5018.1326	6.00	-.82	79318.780	1.0	81311.010	0.0
5018.3139	18.00	-4.29	122790.612	0.0	124782.770	1.0
5018.9891	28.01	-4.72	134539.370	2.5	136531.260	1.5
5019.4679	19.00	-.94	30606.730	2.5	32598.430	1.5
5019.7955	19.00	-.78	30606.730	3.5	32598.300	2.5
5019.7955	19.00	-2.08	30606.730	2.5	32598.300	2.5
5020.0475	6.00	.09	81769.790	2.0	83761.260	3.0
5020.2417	18.00	.04	116660.054	1.0	118651.447	1.0
5020.6778	24.00	-4.40	33906.650	1.0	35897.870	2.0
5020.9552	28.00	-3.27	48715.200	4.0	50706.310	4.0
5021.7118	27.00	-4.41	50925.110	1.5	52915.920	.5
5022.0297	18.00	-.02	120619.076	2.0	122609.760	1.0
5023.1500	24.00	-3.30	46524.840	2.0	48515.080	3.0
5024.0084	15.01	-2.29	130143.300	3.0	132133.200	3.0
5024.2608	17.01	-4.67	144344.000	2.0	146333.800	2.0
5025.3241	7.00	-1.32	104825.080	2.5	106814.459	2.5
5025.8521	12.01	-.10	110207.990	1.5	112197.160	1.5
5026.1048	12.01	.85	110207.990	1.5	112197.060	2.5
5026.3322	26.02	-4.17	198336.580	5.0	200325.560	4.0
5026.4332	28.01	-2.21	120281.110	4.5	122270.050	3.5
5026.8882	28.01	-2.70	128827.150	3.5	130815.910	3.5
5026.9135	29.01	-4.19	146072.950	3.0	148061.700	3.0
5027.1915	14.00	-2.07	62935.760	3.0	64924.400	3.0
5027.5025	22.00	-4.28	41341.553	5.0	43330.070	5.0
5027.5455	26.02	-3.68	198337.060	3.0	200325.560	4.0
5028.8605	6.00	-3.84	87103.120	1.0	89091.100	1.0
5029.3159	13.01	-3.58	121480.300	3.0	123468.100	3.0
5029.7461	22.00	-4.66	29818.310	3.0	31805.940	2.0
5029.8473	14.00	-1.22	62936.810	4.0	64924.400	3.0
5030.0244	28.01	-4.46	114836.630	3.5	116824.150	2.5
5030.0447	7.00	-.39	105008.520	2.5	106996.032	1.5
5030.5433	7.00	-1.15	104881.320	3.5	106868.635	3.5
5030.6066	27.00	-4.22	47091.140	.5	49078.430	1.5
5030.8344	13.01	-2.67	121480.900	2.0	123468.100	3.0
5031.1382	22.00	-3.64	41757.470	3.0	43744.550	4.0
5031.3155	14.01	-.23	122835.390	3.5	124822.400	2.5
5031.4674	14.01	-.12	122835.390	4.5	124822.340	3.5
5031.4674	14.01	-1.66	122835.390	3.5	124822.340	3.5
5031.4927	26.02	-3.76	198338.620	4.0	200325.560	4.0
5031.5054	14.00	-.74	60815.925	2.0	62802.860	3.0
5031.7207	9.02	-1.16	442636.270	3.5	444623.120	3.5
5032.1005	8.03	-2.57	591962.000	2.5	593948.700	1.5
5032.1791	26.00	-4.18	49850.610	3.0	51837.279	3.0
5032.7212	17.00	-1.65	100246.855	1.5	102233.310	2.5
5033.3420	22.00	-3.51	37654.770	2.0	39640.980	3.0
5033.8742	17.01	-2.82	144344.000	2.0	146330.000	1.0
5034.4065	10.00	-4.45	170585.040	1.0	172570.830	1.0
5034.4319	24.00	-2.85	31352.420	1.0	33338.200	0.0
5035.2560	37.00	.30	23715.081	0.0	25701.077	0.0
5035.5476	28.01	-4.72	94067.140	1.5	96052.480	2.5
5036.4076	28.00	-2.01	47328.850	2.0	49313.851	3.0
5036.6639	17.00	-3.08	100202.610	1.5	102187.510	2.5
5037.0192	29.01	-2.45	135664.340	1.0	137649.100	2.0
5037.3999	25.00	-2.31	57305.620	3.5	59290.230	3.5
5038.0599	10.00	-3.80	170585.040	1.0	172569.390	2.0
5038.3391	7.00	-.91	104996.240	1.5	106980.480	.5
5038.5169	25.00	-1.87	57485.970	2.5	59470.140	3.5
5038.7455	18.00	-2.85	122707.940	3.0	124692.020	2.0
5039.3551	18.00	-1.56	122708.180	2.0	124692.020	2.0
5039.7768	17.00	-4.30	100249.636	2.5	102233.310	2.5
5039.9648	15.00	-.29	75905.100	2.5	77888.700	1.5
5040.6255	18.00	-1.30	123808.600	2.0	125791.940	2.0
5041.1084	22.00	-3.38	39640.980	3.0	41624.130	4.0
5041.6677	29.01	-1.71	134743.000	4.0	136725.930	5.0
5042.4560	6.00	-1.41	81769.790	2.0	83752.410	1.0
5043.2955	6.00	-2.56	87103.120	1.0	89085.410	1.0
5043.4888	18.00	-1.65	120619.076	2.0	122601.290	1.0
5045.0032	28.00	-2.00	48735.308	2.0	50716.927	1.0
5046.6815	9.02	-.07	464321.840	2.5	466302.800	3.5
5046.9362	10.00	-3.78	170585.040	1.0	172565.900	1.0
5047.4586	22.00	-2.39	18145.400	2.0	20126.055	3.0
5047.7772	24.01	-3.84	51943.040	4.5	53923.570	4.5
5048.8224	9.02	-1.64	464321.840	2.5	466301.960	2.5
5049.5364	10.00	-4.07	170585.040	1.0	172564.880	0.0
5050.0032	14.00	-3.12	62667.823	3.0	64647.480	3.0
5050.0466	10.00	-3.57	171009.340	1.0	172988.980	1.0
5051.3581	26.00	-4.95	51373.894	5.0	53353.020	6.0
5051.6031	18.01	-1.01	190732.970	.5	192712.000	1.5
5051.7052	18.00	.15	119212.930	3.0	121191.920	2.0
5051.7895	14.00	-2.72	62667.823	3.0	64646.780	2.0
5052.8925	28.00	-3.22	49327.560	3.0	51306.085	3.0
5052.9564	6.00	-2.23	87103.120	1.0	89081.620	0.0
5053.0330	21.00	-3.45	16021.780	1.5	18000.250	2.5
5053.0841	25.00	-3.69	57621.900	1.5	59600.350	2.5
5053.4263	14.00	-2.98	62669.164	3.0	64647.480	3.0
5053.4646	14.00	-1.65	62669.179	4.0	64647.480	3.0
5053.6026	17.00	-1.17	97703.640	1.5	99681.887	1.5
5053.9270	18.01	-4.12	202155.860	2.5	204133.980	2.5
5054.3717	17.00	-.70	97703.941	2.5	99681.887	1.5
5054.5147	6.00	-3.01	87113.210	2.0	89091.100	1.0
5054.5812	10.00	-2.85	171009.340	1.0	172987.204	2.0
5054.7345	18.00	-1.31	123505.536	2.0	125483.340	2.0
5054.7959	22.00	-2.05	42184.660	4.0	44162.440	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5054.8648	14.00	-4.65	62669.727	2.0	64647.480	3.0
5054.9748	22.00	-4.21	45485.350	5.0	47463.060	4.0
5055.0157	14.00	-.43	57295.881	0.0	59273.575	1.0
5055.0770	14.00	-1.67	61511.770	1.0	63489.440	2.0
5055.1946	18.00	-2.02	123505.536	2.0	125483.160	3.0
5055.2150	14.00	-3.51	62669.164	3.0	64646.780	2.0
5055.2559	6.00	-.67	81769.790	2.0	83747.390	2.0
5055.4349	21.00	-2.49	16022.720	2.5	18000.250	2.5
5055.7928	18.01	-4.23	201030.300	.5	203007.690	1.5
5056.2020	18.00	-3.04	122160.220	3.0	124137.450	2.0
5056.3707	18.00	-.19	123505.536	2.0	125482.700	3.0
5056.5600	14.00	-3.34	62421.030	3.0	64398.120	2.0
5056.5728	26.00	-4.72	51304.650	4.0	53281.735	5.0
5056.6112	18.00	-2.19	122160.220	3.0	124137.290	3.0
5056.6546	14.00	-2.96	62669.727	2.0	64646.780	2.0
5056.8413	29.01	-3.04	134359.900	1.0	136336.880	1.0
5057.3530	6.00	-1.52	87103.120	1.0	89079.900	2.0
5057.8391	22.00	-4.97	41255.400	4.0	43231.990	4.0
5057.9670	27.00	-4.04	49197.740	4.5	51174.280	5.5
5058.1820	26.00	-3.72	50043.250	1.0	52019.706	1.0
5058.2997	18.00	-2.61	123815.530	1.0	125791.940	2.0
5058.3791	26.00	-3.96	49242.680	2.0	51219.059	3.0
5058.7348	28.01	-3.23	120199.180	1.5	122175.420	2.5
5060.4223	12.00	-1.31	59041.019	2.0	61016.600	2.0
5060.4223	12.00	-.73	59041.019	2.0	61016.600	3.0
5060.4223	12.00	-.66	59041.019	2.0	61016.600	3.0
5060.5786	18.00	-1.87	122160.220	3.0	124135.740	3.0
5060.5786	18.00	-.67	122160.220	3.0	124135.740	4.0
5061.3985	18.00	-.73	123808.600	2.0	125783.800	1.0
5062.0648	10.00	-4.75	170597.190	2.0	172572.130	2.0
5062.6800	13.01	-.15	146274.400	2.0	148249.100	3.0
5063.4236	28.01	-3.36	116468.400	1.5	118442.810	1.5
5063.7313	28.01	.75	135261.990	4.5	137236.280	3.5
5063.7826	28.01	-3.76	114858.880	5.5	116833.150	4.5
5063.9314	17.00	-2.58	98372.970	1.5	100347.182	2.5
5064.0135	28.01	-3.52	128827.150	3.5	130801.330	4.5
5064.1674	18.00	-.87	122717.900	3.0	124692.020	2.0
5064.3855	14.00	-1.83	60962.105	2.0	62936.140	3.0
5064.9730	26.00	-4.61	50045.900	2.0	52019.706	1.0
5065.1116	17.00	-1.46	98373.430	2.5	100347.182	2.5
5065.8713	17.00	-1.78	95700.874	3.5	97674.330	2.5
5066.2461	9.02	-2.51	464321.840	2.5	466295.150	1.5
5066.4824	17.00	-.95	95700.874	3.5	97674.092	3.5
5066.7340	27.00	-4.24	28470.510	1.5	30443.630	1.5
5067.6072	20.02	-3.66	277380.860	2.0	279353.640	1.0
5067.6996	17.00	-1.80	100249.636	2.5	102222.380	3.5
5068.5835	27.00	-3.45	49197.740	4.5	51170.140	4.5
5068.9202	17.00	-1.99	97739.040	.5	99711.309	.5
5069.0976	6.00	-1.90	87113.210	2.0	89085.410	1.0
5069.0976	10.00	-4.84	170597.190	2.0	172569.390	2.0
5069.1232	29.01	-4.06	146094.110	3.0	148066.300	2.0
5069.4317	19.00	-2.01	31765.370	.5	33737.440	1.5
5069.6399	17.00	-1.62	97739.320	1.5	99711.309	.5
5069.7916	28.01	-3.75	120203.490	2.5	122175.420	2.5
5069.9484	22.00	-1.92	37555.021	3.0	39526.890	2.0
5070.0616	17.00	-.76	100246.855	1.5	102218.680	2.5
5070.7430	18.00	-2.80	120188.660	2.0	122160.220	3.0
5070.8331	17.00	-1.66	100246.855	1.5	102218.380	1.5
5071.0002	6.00	-2.72	86362.520	1.0	88333.980	0.0
5071.1906	18.00	-2.53	122086.974	2.0	124058.360	3.0
5071.2781	22.00	-4.81	39115.958	4.0	41087.310	3.0
5071.5919	19.00	-2.31	31765.370	.5	33736.600	.5
5072.4591	10.00	-4.30	170597.190	2.0	172568.083	3.0
5072.9044	23.00	-3.32	35012.910	.5	36983.630	1.5
5072.9687	7.00	-3.44	112319.805	1.5	114290.500	2.5
5072.9816	27.00	-3.79	42811.440	3.5	44782.130	4.5
5073.0846	7.00	-4.86	110710.739	2.5	112681.389	2.5
5073.5480	22.00	-4.40	34327.960	1.0	36298.430	1.0
5073.7283	15.01	-2.10	127600.000	1.0	129570.400	1.0
5074.2691	10.00	-3.01	168586.860	0.0	170557.050	1.0
5074.9130	14.00	-1.63	62954.460	3.0	64924.400	3.0
5075.2969	7.00	-2.76	110350.014	.5	112319.805	1.5
5075.5056	9.00	-1.59	128520.220	.5	130489.930	.5
5076.3045	14.00	-2.98	62955.000	2.0	64924.400	3.0
5076.6628	18.00	-.43	124554.939	1.0	126524.200	0.0
5076.9490	28.01	-4.32	113623.100	.5	115592.250	1.5
5077.2224	17.00	-2.43	100249.636	2.5	102218.680	2.5
5077.4131	10.01	-3.69	301855.710	2.5	303824.680	2.5
5077.6194	6.00	-1.59	87113.210	2.0	89082.100	3.0
5077.9960	17.00	-3.77	100249.636	2.5	102218.380	1.5
5078.1095	18.00	-2.56	123808.600	2.0	125777.300	1.0
5078.2333	14.00	-.81	60381.278	1.0	62349.930	2.0
5078.5738	10.01	-1.52	301855.710	2.5	303824.230	3.5
5079.2189	18.00	-1.61	123815.530	1.0	125783.800	1.0
5079.3221	23.00	-3.37	41950.350	2.5	43918.580	2.5
5079.4511	18.00	-2.46	123385.130	0.0	125353.310	1.0
5079.8976	7.00	-1.94	104810.330	2.5	106778.337	1.5
5080.3029	23.00	-7.36	14949.300	4.5	16917.150	5.5
5080.9743	29.01	-3.93	146094.110	4.0	148061.700	3.0
5082.1728	18.00	-3.11	122086.974	2.0	124054.100	3.0
5082.1883	9.02	-2.09	489494.530	3.5	491461.650	4.5
5082.2399	9.02	-.28	464223.930	1.5	466191.030	2.5
5083.2994	6.00	-3.63	87113.210	2.0	89079.900	2.0
5083.4029	9.00	-3.11	128523.280	1.5	130489.930	.5
5083.5062	28.01	-4.31	115108.090	2.5	117074.700	3.5
5083.7337	17.00	-.35	95700.874	3.5	97667.396	3.5
5083.9457	10.01	-3.92	303600.500	2.5	305566.940	1.5
5084.4706	7.00	-3.56	110715.152	3.5	112681.389	2.5
5085.6630	17.00	.59	95700.874	3.5	97666.650	4.5
5085.7561	28.00	-2.41	49159.060	2.0	51124.800	3.0
5085.9191	26.00	-4.61	49804.900	3.0	51770.577	3.0
5087.1018	27.00	-3.31	43911.360	1.5	45876.580	2.5
5087.4383	18.00	-1.70	123826.850	2.0	125791.940	2.0
5087.6895	7.00	-3.45	112294.007	.5	114259.000	1.5
5087.7749	29.01	-4.19	146051.340	1.0	148016.300	1.0
5087.7749	29.01	-4.27	146051.340	2.0	148016.300	1.0
5088.3912	20.00	-.23	45050.419	2.0	47015.141	3.0
5088.5104	18.00	-1.50	122086.974	2.0	124051.650	2.0
5088.9326	11.00	-1.88	38387.257	2.5	40351.770	2.5
5088.9326	11.00	-.58	38387.257	2.5	40351.770	3.5
5088.9663	11.00	-.74	38387.270	1.5	40351.770	2.5
5089.0543	18.00	-.25	122086.974	2.0	124051.440	3.0
5089.1191	14.00	-.84	57541.918	1.0	59506.359	2.0
5089.2771	18.00	-2.25	120753.520	3.0	122717.900	3.0
5089.2771	18.00	-1.77	120753.520	3.0	122717.900	4.0
5089.5803	14.00	-2.33	60705.464	3.0	62669.727	2.0
5089.6917	28.01	-2.04	128837.110	5.5	130801.330	4.5
5090.0545	9.00	-2.63	128184.990	.5	130149.070	.5
5090.4432	8.01	-4.22	253791.870	1.5	255755.800	2.5
5090.6506	18.00	-.96	116942.815	3.0	118906.665	2.0
5090.9098	21.00	-2.95	33707.250	2.5	35671.000	1.5
5091.0006	14.00	-.15	60705.464	3.0	62669.179	4.0
5091.0395	14.00	-3.47	60705.464	3.0	62669.164	3.0
5091.0524	14.00	-1.91	60962.105	2.0	62925.800	1.0
5091.7084	26.00	-4.14	52916.278	2.0	54879.720	2.0
5092.4684	18.00	-3.37	122686.400	2.0	124649.549	3.0
5092.9613	28.00	-1.36	47208.228	1.0	49171.187	1.0
5093.4594	20.00	-4.84	45052.374	3.0	47015.141	3.0
5094.3601	28.01	-4.06	112906.930	1.5	114869.350	1.5
5094.5184	14.00	-1.23	60705.464	3.0	62667.823	3.0
5094.8794	24.00	-4.98	33935.650	2.0	35897.870	2.0
5095.3260	17.00	-3.63	96731.172	3.5	98693.220	2.5
5095.3468	28.01	-4.96	128853.870	2.5	130815.910	3.5
5095.3727	28.01	-3.09	128803.230	2.5	130765.260	3.5
5095.4506	28.01	-3.10	128853.910	4.5	130815.910	3.5
5095.6065	26.02	-4.19	182412.650	4.0	184374.590	4.0
5096.0480	18.00	-1.92	123815.530	1.0	125777.300	1.0
5096.0818	13.00	.45	40271.965	.5	42233.722	1.5
5096.2299	28.01	-3.81	135606.300	6.5	137568.000	7.5
5096.6638	16.00	-.54	75951.060	1.0	77912.593	1.0
5097.3472	25.00	-4.52	49591.510	1.5	51552.780	.5
5097.9893	16.00	-.06	75951.570	2.0	77912.593	1.0
5099.2504	26.00	-4.19	45595.046	0.0	47555.584	1.0
5100.0464	26.00	-3.68	31805.059	3.0	33765.291	2.0
5100.3898	15.00	-2.54	76173.400	3.5	78133.500	2.5
5100.7776	18.00	-1.65	122479.459	1.0	124439.410	0.0
5100.8869	13.00	.70	40277.872	1.5	42237.781	2.5
5101.0327	12.00	-1.59	58575.487	3.0	60535.340	2.0
5101.0327	12.00	-2.79	58575.487	3.0	60535.340	3.0
5101.1133	12.00	-2.72	58575.518	2.0	60535.340	2.0
5101.1133	12.00	-1.81	58575.518	2.0	60535.340	1.0
5101.1133	12.00	-4.86	58575.518	3.0	60535.340	2.0
5101.1133	12.00	-4.09	58575.518	2.0	60535.340	3.0
5101.1133	12.00	-2.92	58575.518	3.0	60535.340	3.0
5101.7433	27.00	-4.44	47524.470	4.5	49484.050	3.5
5102.1079	18.00	-1.01	123832.500	3.0	125791.940	2.0
5102.4203	28.01	-4.49	128732.030	1.5	130691.350	1.5
5102.7328	27.00	-2.30	46375.170	1.5	48334.370	1.5
5102.7927	26.00	-4.10	49502.530	5.0	51461.707	4.0
5102.8631	24.00	-4.37	33542.110	2.0	35501.260	3.0
5102.8995	28.00	-3.00	42605.964	3.0	44565.100	3.0
5103.3189	14.00	-2.07	60962.105	2.0	62921.080	2.0
5105.6255	28.01	-3.82	92325.850	3.5	94283.940	4.5
5105.6541	12.00	-1.54	58477.020	1.0	60435.099	2.0
5106.2513	18.01	-4.35	202155.860	2.5	204113.710	1.5
5107.3730	15.00	-3.40	65156.400	1.5	67113.820	2.5
5107.5844	12.00	-2.02	58477.760	2.0	60435.099	2.0
5108.1533	20.00	-.25	45049.073	1.0	47006.194	2.0
5108.5997	18.00	-3.03	123826.850	2.0	125783.800	1.0
5108.9338	12.00	-1.48	58578.518	4.0	60535.340	3.0
5109.3569	9.00	-3.02	128184.990	.5	130141.650	1.5
5109.4352	14.00	-1.75	60856.630	1.0	62813.260	1.0
5109.7799	17.00	-.83	94973.683	.5	96930.181	.5
5109.9575	19.00	-1.94	31695.890	2.5	33652.320	2.5
5109.9575	19.00	-.64	31695.890	2.5	33652.320	3.5
5110.6366	19.00	-.79	31696.150	1.5	33652.320	2.5
5110.6889	28.01	-4.93	98122.630	.5	100078.780	1.5
5111.3161	14.00	-4.85	62968.490	4.0	64924.400	3.0
5111.3683	26.02	-4.91	182418.700	4.0	184374.590	4.0
5111.3866	26.00	-3.12	45061.287	3.0	47017.170	3.0
5111.4441	20.00	-.49	45050.419	2.0	47006.280	3.0
5111.4728	13.00	-.25	40277.872	1.5	42233.722	1.5
5111.5251	19.00	-1.05	30274.280	.5	32230.110	1.5
5111.5774	14.00	-1.96	62231.990	2.0	64187.800	3.0
5111.6689	20.00	-1.38	45050.419	2.0	47006.194	2.0
5111.7917	17.00	-.18	97712.660	4.5	99668.388	3.5
5113.4075	28.01	-4.39	135618.080	2.5	137573.190	3.5
5113.4075	12.00	-3.10	58580.230	1.0	60535.340	2.0
5113.6952	26.00	-4.78	52049.820	2.0	54004.820	3.0
5114.3256	7.00	-2.98	104859.700	1.5	106814.459	2.5
5114.4801	28.01	-3.27	115120.000	2.5	117074.700	3.5
5114.5062	27.00	-2.42	43921.890	2.5	45876.580	2.5
5114.5847	18.00	-3.18	120753.520	3.0	122708.180	2.0
5115.0557	10.00	-3.77	170875.760	2.0	172830.240	3.0
5115.0636	20.00	-1.92	46479.813	1.0	48434.290	2.0
5115.1343	29.01	-.82	137073.750	2.0	139028.200	2.0
5115.1604	10.00	-3.96	170875.760	1.0	172830.200	2.0
5115.1604	10.00	-4.92	170875.760	2.0	172830.200	2.0
5115.2128	18.00	-2.32	120753.520	3.0	122707.940	3.0
5115.2494	18.00	-.86	122086.974	2.0	124041.380	2.0
5115.2756	10.00	-.16	165912.782	1.0	167867.178	0.0
5115.7206	18.00	-1.85	122086.974	2.0	124041.200	1.0
5115.8017	7.00	-3.97	112319.805	1.5	114274.000	2.5
5116.2442	20.00	.08	45052.374	3.0	47006.400	4.0
5116.3123	14.00	-1.13	62349.930	2.0	64303.930	3.0
5116.5584	20.00	-.98	45052.374	3.0	47006.280	3.0
5116.7077	18.00	-.77	122695.700	4.0	124649.549	3.0
5116.7836	18.00	-2.01	124135.740	3.0	126089.560	3.0
5116.7836	18.00	-.68	124135.740	4.0	126089.560	3.0
5116.7836	20.00	-2.52	45052.374	3.0	47006.194	2.0
5117.0377	20.00	-3.84	43933.477	1.0	45887.200	0.0
5117.5170	10.00	-3.20	170875.760	1.0	172829.300	1.0
5117.5170	10.00	-2.88	170875.760	2.0	172829.300	1.0
5117.8314	28.01	-2.86	128862.490	4.5	130815.910	3.5
5117.8890	22.00	-2.58	17369.590	1.0	19322.988	2.0
5118.0776	17.00	-1.53	95400.731	2.5	97354.057	1.5
5118.2585	7.00	-3.23	104825.080	2.5	106778.337	1.5
5118.5127	19.00	-1.35	30274.280	.5	32227.440	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5120.0646	17.00	-2.18	95786.752	2.5	97739.320	1.5
5120.1642	28.01	-2.61	120222.890	1.5	122175.420	2.5
5120.2402	18.00	4.56	119212.930	3.0	121165.431	3.0
5120.3740	18.00	-.22	120207.770	4.0	122160.220	3.0
5120.5838	14.00	-.77	61841.940	2.0	63794.310	2.0
5120.8461	18.00	-2.09	124137.290	3.0	126089.560	3.0
5121.1871	10.00	-3.59	170875.760	1.0	172827.900	2.0
5121.1871	10.00	-2.64	170875.760	2.0	172827.900	2.0
5121.2657	18.00	-3.29	124137.450	2.0	126089.560	3.0
5121.4075	14.00	-4.15	61562.477	3.0	63514.533	4.0
5121.5623	9.00	-2.05	128064.103	3.5	130016.100	2.5
5122.0267	25.00	-1.88	57305.620	3.5	59257.440	4.5
5122.2367	6.00	-4.85	87218.260	2.0	89170.000	1.0
5122.6566	14.00	-1.51	61841.940	2.0	63793.520	1.0
5122.7091	28.01	-4.12	114942.420	1.5	116893.980	2.5
5123.5755	24.01	-4.74	89475.080	2.5	91426.310	2.5
5124.0744	6.00	-3.72	87103.120	1.0	89054.160	2.0
5124.4973	14.00	-2.43	60645.441	2.0	62596.320	2.0
5124.6208	28.00	-1.61	47208.228	1.0	49159.060	2.0
5124.8546	26.00	-4.67	29371.860	3.0	31322.603	3.0
5125.2040	6.00	-4.28	86185.200	2.0	88135.810	3.0
5125.2802	14.00	-1.97	61563.952	4.0	63514.533	4.0
5125.6245	18.00	-.82	123826.850	2.0	125777.300	1.0
5126.2868	16.00	-.41	75951.060	1.0	77901.258	0.0
5126.3078	18.01	-2.60	186815.960	3.5	188766.150	2.5
5126.5707	18.01	-.76	202467.140	1.5	204417.230	1.5
5126.7547	14.00	-1.59	60856.630	1.0	62806.650	0.0
5126.8362	28.00	-1.18	49174.811	4.0	51124.800	3.0
5127.2279	10.00	-2.12	171659.690	2.0	173609.530	1.0
5127.6224	10.00	-2.72	170875.760	1.0	172825.450	1.0
5127.6224	10.00	-2.28	170875.760	2.0	172825.450	1.0
5127.9117	10.00	-3.83	170880.660	2.0	172830.240	3.0
5127.9117	10.00	-2.53	170880.660	3.0	172830.240	3.0
5128.0169	10.00	-2.69	170880.660	2.0	172830.200	2.0
5128.0169	10.00	-3.83	170880.660	3.0	172830.200	2.0
5128.0433	28.01	-4.23	133929.880	3.5	135879.410	3.5
5128.2011	27.00	-4.46	47128.960	2.5	49078.430	1.5
5128.7272	10.00	-1.80	170877.950	4.0	172827.220	3.0
5128.7273	28.01	-3.44	114874.880	2.5	116824.150	2.5
5128.9378	10.00	-3.35	170877.950	4.0	172827.140	4.0
5128.9378	10.00	-1.70	170877.950	5.0	172827.140	4.0
5128.9457	8.00	-2.11	106785.213	2.0	108734.400	1.0
5128.9457	8.00	-2.84	106785.213	2.0	108734.400	2.0
5128.9457	8.00	-4.38	106785.213	2.0	108734.400	3.0
5128.9457	8.00	-1.94	106785.213	3.0	108734.400	2.0
5128.9457	8.00	-2.84	106785.213	3.0	108734.400	3.0
5128.9457	8.00	-1.78	106785.213	4.0	108734.400	3.0
5129.0430	18.00	-1.65	123882.300	1.0	125831.450	0.0
5129.2536	18.01	-.95	201781.790	2.5	203730.860	1.5
5129.3324	11.00	-3.16	38399.790	2.5	40348.830	2.5
5129.3324	11.00	-1.85	38399.790	3.5	40348.830	2.5
5129.3324	11.00	-2.01	38399.790	2.5	40348.830	1.5
5129.6562	14.00	-2.95	62667.823	3.0	64616.740	2.0
5129.6746	28.01	-3.64	128867.000	3.5	130815.910	3.5
5129.8325	10.00	-4.40	171659.690	2.0	173608.540	3.0
5129.8325	10.00	-3.22	171659.690	3.0	173608.540	3.0
5129.8852	10.00	-3.25	171659.690	2.0	173608.520	2.0
5129.8852	10.00	-1.92	171659.690	3.0	173608.520	2.0
5129.9379	10.00	-2.60	170875.760	1.0	172824.570	0.0
5130.0169	10.00	-3.07	171659.690	2.0	173608.470	2.0
5130.3854	10.00	-2.25	170880.660	2.0	172829.300	1.0
5130.4380	10.00	-3.09	171659.920	3.0	173608.540	3.0
5130.4380	10.00	-1.79	171659.920	4.0	173608.540	3.0
5130.4907	10.00	-4.40	171659.920	3.0	173608.520	2.0
5130.6223	10.00	-1.93	171659.920	3.0	173608.470	2.0
5132.2817	19.00	-1.29	32648.350	.5	34596.270	1.5
5132.2817	19.00	-1.59	32648.350	.5	34596.270	.5
5132.8087	14.00	-3.79	62450.400	1.0	64398.120	2.0
5133.1249	13.01	-.88	146185.000	2.0	148132.600	3.0
5133.1249	13.01	-1.78	146185.000	3.0	148132.600	3.0
5133.1882	14.00	-2.17	62669.164	3.0	64616.740	2.0
5133.5467	14.00	-3.08	62349.930	2.0	64297.370	3.0
5133.5994	28.01	-2.81	128853.910	4.5	130801.330	4.5
5133.9421	15.01	-1.35	104054.700	1.0	106001.990	1.0
5133.9685	10.00	-3.29	170882.960	3.0	172830.240	3.0
5133.9685	10.00	-1.86	170882.960	4.0	172830.240	3.0
5134.0740	10.00	-3.17	170880.660	2.0	172827.900	2.0
5134.0740	10.00	-2.02	170880.660	3.0	172827.900	2.0
5134.0740	10.00	-1.99	170882.960	3.0	172830.200	2.0
5134.3904	22.00	-8.51	14028.470	2.0	15975.590	3.0
5134.5486	28.01	-4.55	132120.700	.5	134067.760	1.5
5134.6013	14.00	-4.91	62935.760	3.0	64882.800	2.0
5134.6725	14.00	-4.27	62669.727	2.0	64616.740	2.0
5135.2343	8.03	-1.43	592046.000	3.5	593992.800	3.5
5135.4190	28.01	-4.97	135628.410	4.5	137575.140	5.5
5135.8675	10.00	-4.07	170880.660	2.0	172827.220	3.0
5136.0785	6.00	-2.70	87218.260	2.0	89164.740	1.0
5136.0785	10.00	-3.94	170880.660	3.0	172827.140	4.0
5136.2369	28.01	-4.71	120166.520	1.5	122112.940	.5
5136.2633	28.01	-4.77	133903.000	1.5	135849.410	2.5
5136.3160	25.00	-3.22	57621.900	1.5	59568.290	.5
5136.4797	8.00	-2.54	106785.172	1.0	108731.500	1.0
5136.4797	8.00	-3.38	106785.172	1.0	108731.500	2.0
5136.4797	8.00	-2.24	106785.172	2.0	108731.500	1.0
5136.4797	8.00	-2.38	106785.172	2.0	108731.500	2.0
5136.4797	8.00	-3.38	106785.172	2.0	108731.500	3.0
5136.4797	8.00	-2.00	106785.172	3.0	108731.500	2.0
5136.4797	8.00	-2.36	106785.172	3.0	108731.500	3.0
5136.4797	8.00	-3.68	106785.172	3.0	108731.500	4.0
5136.4797	8.00	-1.81	106785.172	4.0	108731.500	3.0
5136.4797	8.00	-2.51	106785.172	4.0	108731.500	4.0
5136.4797	8.00	-1.64	106785.172	5.0	108731.500	4.0
5136.4797	8.00	-2.54	106785.172	1.0	108731.500	0.0
5137.1817	17.00	-2.45	95313.749	1.5	97259.811	1.5
5137.6358	24.00	-3.47	46878.610	3.0	48824.500	4.0
5137.8471	28.01	-2.81	120199.180	1.5	122144.990	2.5
5138.2405	12.00	-1.43	57017.078	0.0	58962.739	1.0
5138.9035	28.01	-4.97	134256.050	2.5	136201.460	3.5
5139.2205	10.00	-4.96	171043.690	2.0	172988.980	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5139.5138	18.00	-4.32	122609.760	1.0	124554.939	1.0
5139.9471	12.00	-.95	57017.724	1.0	58962.739	1.0
5140.5417	10.00	-3.38	170880.660	2.0	172825.450	1.0
5140.5523	14.00	-2.28	57328.789	1.0	59273.575	1.0
5141.1233	14.00	-1.96	62141.800	1.0	64086.370	1.0
5141.3295	22.00	-2.78	18061.540	1.0	20006.032	2.0
5141.9430	22.00	-4.49	39640.980	3.0	41585.240	3.0
5141.9430	10.00	-2.76	170882.960	3.0	172827.220	3.0
5141.9430	10.00	-4.19	170882.960	4.0	172827.220	3.0
5142.1520	12.00	-2.19	58476.689	0.0	60420.870	1.0
5142.1547	10.00	-2.65	170882.960	4.0	172827.140	4.0
5142.1547	10.00	-4.20	170882.960	3.0	172827.140	4.0
5142.1810	18.00	-.93	123205.830	3.0	125150.000	3.0
5142.6492	7.00	-3.07	110350.014	.5	112294.007	.5
5142.7895	6.00	-2.94	87218.260	2.0	89162.200	2.0
5143.0276	12.00	-1.71	58477.020	1.0	60420.870	1.0
5143.1863	28.01	-4.87	135629.400	3.5	137573.190	3.5
5143.3874	12.00	-.73	57019.025	2.0	58962.739	1.0
5143.7076	10.00	-3.56	171043.690	2.0	172987.283	3.0
5143.9168	10.00	-4.40	171043.690	2.0	172987.204	2.0
5144.0861	14.00	-2.08	62421.030	3.0	64364.480	2.0
5144.9862	12.00	-1.49	58477.760	2.0	60420.870	1.0
5145.6827	17.00	-1.87	97739.040	.5	99681.887	1.5
5145.9926	6.00	-1.66	86317.640	2.0	88260.370	2.0
5145.9979	28.00	-1.41	47328.850	2.0	49271.578	3.0
5146.4244	17.00	-1.67	97739.320	1.5	99681.887	1.5
5146.6814	28.01	-3.22	93390.060	2.5	95332.530	2.5
5146.8933	28.01	-3.42	113177.610	3.5	115120.000	2.5
5147.1557	28.00	-1.47	48735.308	2.0	50677.599	3.0
5147.2909	9.02	-.86	442636.270	3.5	444578.510	4.5
5147.4499	18.00	-1.70	120753.520	3.0	122695.700	4.0
5147.5559	19.00	-.57	32598.300	2.5	34540.440	1.5
5147.5824	23.00	-4.64	39597.010	4.5	41539.140	4.5
5147.6380	22.00	-3.40	17995.750	0.0	19937.859	1.0
5147.8209	11.00	-2.11	38540.180	.5	40482.220	.5
5147.9005	19.00	-1.52	32598.430	1.5	34540.440	1.5
5148.4572	19.00	-.82	32598.430	1.5	34540.230	.5
5148.9637	18.00	-2.26	122707.940	3.0	124649.549	3.0
5149.2527	28.01	-2.74	120203.490	2.5	122144.990	2.5
5149.5444	18.00	-.71	123172.090	1.0	125113.480	2.0
5149.6002	18.00	-2.64	122708.180	2.0	124649.549	3.0
5149.8098	11.00	-1.81	38540.930	1.5	40482.220	.5
5150.3138	13.01	-1.08	146276.500	3.0	148217.600	3.0
5150.3138	13.01	.25	146276.500	3.0	148217.600	4.0
5150.3138	13.01	-1.60	146276.500	3.0	148217.600	4.0
5150.6322	22.00	-3.90	40670.600	2.0	42611.580	1.0
5150.7118	6.00	-2.94	87113.210	2.0	89054.160	2.0
5150.8419	18.00	-1.13	122440.109	2.0	124381.010	2.0
5151.6408	12.02	-.39	582747.300	2.0	584687.900	3.0
5151.9063	13.01	.11	121480.300	3.0	123420.800	4.0
5152.1718	15.00	-4.58	78069.000	1.5	80009.400	.5
5152.2249	16.00	-.99	79143.350	2.0	81083.730	1.0
5154.3234	29.01	-4.88	146094.110	3.0	148033.700	4.0
5154.8550	28.01	-4.77	134262.070	3.5	136201.460	3.5
5155.5461	28.01	-4.81	134607.370	4.5	136546.500	4.5
5155.6791	9.02	-2.58	442636.270	3.5	444575.350	2.5
5156.3173	28.01	-2.59	128862.490	4.5	130801.330	4.5
5156.5939	20.00	-1.19	35818.713	3.0	37757.449	3.0
5156.8492	28.01	-3.33	133443.890	2.5	135382.530	1.5
5156.9822	28.01	-3.03	99418.610	3.5	101357.200	4.5
5157.1632	16.00	-1.71	75951.060	1.0	77889.582	2.0
5157.5410	16.00	-1.73	79143.350	2.0	81081.730	2.0
5157.5410	16.00	-.82	79143.350	3.0	81081.730	2.0
5157.8336	21.00	-3.21	16009.710	.5	17947.980	1.5
5158.0385	7.00	-4.67	112294.007	.5	114232.200	1.5
5158.1130	26.00	-4.19	45333.834	2.0	47271.999	1.0
5158.1370	17.00	-.95	95400.731	2.5	97338.887	2.5
5158.1530	29.01	-2.39	135135.600	1.0	137073.750	2.0
5158.2594	28.01	-2.91	128827.150	3.5	130765.260	3.5
5158.2861	13.01	-1.89	144638.900	1.0	146577.000	1.0
5158.2861	13.01	-1.68	144638.900	1.0	146577.000	0.0
5158.2861	13.01	-2.98	144638.900	1.0	146577.000	2.0
5158.2861	13.01	-1.41	144638.900	2.0	146577.000	1.0
5158.2861	13.01	-1.80	144638.900	2.0	146577.000	2.0
5158.2861	13.01	-1.05	144638.900	3.0	146577.000	2.0
5158.3392	14.00	-3.38	62986.320	2.0	64924.400	3.0
5158.5203	16.00	-.53	75951.570	2.0	77889.582	2.0
5159.3509	13.01	-.95	121480.300	3.0	123418.000	3.0
5160.0166	21.00	-1.86	36934.150	1.5	38871.600	2.5
5160.0433	6.00	-.94	87218.260	2.0	89155.700	3.0
5160.2297	26.00	-2.86	52067.450	2.0	54004.820	3.0
5160.7358	23.02	-4.27	160576.620	3.5	162513.800	4.5
5160.9489	13.01	-.05	121480.900	2.0	123418.000	3.0
5161.1408	17.00	-2.88	100589.312	2.5	102526.340	2.5
5161.3539	17.00	-1.58	100589.312	2.5	102526.260	3.5
5161.7830	12.00	-4.56	54250.086	1.0	56186.873	0.0
5162.0655	9.00	-1.86	128122.719	1.5	130059.400	.5
5162.4493	28.00	-1.87	48817.600	1.0	50754.137	2.0
5162.7346	28.01	-4.23	116838.330	1.5	118774.760	.5
5162.9212	29.01	-4.88	146051.340	1.0	147987.700	2.0
5162.9212	29.01	-3.96	146051.340	2.0	147987.700	2.0
5163.1585	18.00	-1.99	122440.109	2.0	124376.380	1.0
5163.6146	30.02	-4.00	260584.100	1.0	262520.200	2.0
5163.6946	16.00	-1.72	79143.350	3.0	81079.420	3.0
5163.6946	16.00	-3.27	79143.350	2.0	81079.420	3.0
5163.6946	16.00	-.66	79143.350	4.0	81079.420	3.0
5164.9484	13.01	-2.50	121480.300	3.0	123415.900	2.0
5164.9911	22.00	-4.73	26892.926	3.0	28828.510	2.0
5166.1495	14.00	-1.00	62376.820	3.0	64311.970	4.0
5166.2830	15.01	.15	130143.300	3.0	132078.400	4.0
5166.2830	13.01	-1.08	144641.900	0.0	146577.000	1.0
5166.5500	13.01	-.95	121480.900	2.0	123415.900	2.0
5167.1534	10.00	-2.10	169748.150	1.0	171682.924	1.0
5167.3511	13.01	-.22	121481.200	1.0	123415.900	2.0
5167.3778	29.01	-4.79	146094.110	4.0	148028.800	5.0
5167.6716	18.01	-4.47	170400.940	2.5	172335.520	2.5
5168.3395	28.01	-3.36	128867.000	3.5	130801.330	4.5
5168.8740	28.01	-3.72	120903.200	3.5	122837.330	4.5
5169.5368	16.00	.22	75955.700	3.0	77889.582	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5169.8362	29.01	-4.22	133826.200	2.0	135759.970	2.0
5170.5421	22.00	-1.93	37852.434	4.0	39785.940	4.0
5170.5581	24.00	-3.17	42253.420	1.0	44186.920	2.0
5171.3338	6.00	-4.66	86327.160	3.0	88260.370	2.0
5171.3552	10.00	-.59	169748.150	1.0	171681.352	2.0
5171.4836	20.00	-.72	35818.713	3.0	37751.867	2.0
5171.5238	7.00	-1.82	104881.320	3.5	106814.459	2.5
5172.0026	23.00	-5.00	37075.640	4.5	39008.600	5.5
5172.2167	18.00	-3.58	120753.520	3.0	122686.400	2.0
5172.6984	13.01	-.56	142849.200	4.0	144781.900	3.0
5172.6984	13.01	-.88	142849.200	4.0	144781.900	3.0
5172.6984	13.01	-2.73	142849.200	3.0	144781.900	3.0
5172.9125	28.01	-1.97	128818.410	6.5	130751.030	5.5
5173.3569	14.00	-1.41	61198.036	0.0	63130.490	1.0
5173.5014	24.00	-4.15	42254.520	2.0	44186.920	2.0
5174.0370	15.00	-4.52	80300.500	3.5	82232.700	2.5
5175.5129	18.00	-1.54	122717.900	3.0	124649.549	3.0
5175.5129	18.00	-1.65	122717.900	4.0	124649.549	3.0
5175.5370	14.00	-.95	61841.940	2.0	63773.580	2.0
5176.0729	28.01	-2.89	128869.890	5.5	130801.330	4.5
5176.2337	28.01	-2.89	96535.870	3.5	98467.250	3.5
5176.3140	14.00	-.45	61841.940	2.0	63773.290	3.0
5176.9038	14.00	-1.76	60300.860	2.0	62231.990	2.0
5176.9950	14.00	-1.54	58774.368	3.0	60705.464	3.0
5177.0110	6.00	-1.17	87218.260	2.0	89149.350	1.0
5177.0378	10.00	-4.13	171057.900	1.0	172988.980	1.0
5177.7350	14.00	-1.66	62421.030	3.0	64351.850	3.0
5177.9763	22.00	-3.36	39526.890	2.0	41457.620	3.0
5178.1640	24.00	-3.56	42256.260	3.0	44186.920	2.0
5178.6469	28.01	-2.62	113177.610	3.5	115108.090	2.5
5178.8347	18.00	-1.65	120229.810	3.0	122160.220	3.0
5178.9688	28.01	-4.79	128827.150	3.5	130757.510	4.5
5178.9902	10.00	-.17	166656.508	1.0	168586.860	0.0
5179.1834	29.01	-3.83	146103.420	5.0	148033.700	4.0
5179.4518	25.00	-3.49	57485.970	2.5	59416.150	1.5
5179.5323	18.00	-2.07	120230.070	2.0	122160.220	3.0
5179.8275	28.01	-4.96	135645.100	5.5	137575.140	5.5
5179.9000	14.00	-2.73	58775.451	2.0	60705.464	3.0
5180.0287	14.00	-.65	59032.140	2.0	60962.105	2.0
5181.5188	28.01	-2.08	120211.300	5.5	122140.710	4.5
5181.5457	29.01	-2.36	137212.700	1.0	139142.100	2.0
5181.6531	28.01	.75	137562.740	3.5	139492.100	2.5
5181.8948	18.00	-1.23	123220.730	2.0	125150.000	3.0
5181.9754	9.00	-4.87	128219.830	1.5	130149.070	.5
5182.1366	10.00	-3.78	171057.900	1.0	172987.080	2.0
5183.2650	10.00	-4.94	171060.220	2.0	172988.980	1.0
5183.2650	18.00	-.83	124135.740	3.0	126064.500	2.0
5183.3187	6.00	-2.53	86331.630	1.0	88260.370	2.0
5183.4262	15.00	-.91	75905.100	2.5	77833.800	1.5
5183.6412	22.00	-4.62	39265.800	2.0	41194.420	3.0
5184.3939	14.00	-1.76	62954.460	3.0	64882.800	2.0
5184.5230	17.00	-.81	98418.890	3.5	100347.182	2.5
5184.5794	9.00	-.84	128087.829	2.5	130016.100	2.5
5185.0877	17.00	-3.44	98419.100	2.5	100347.182	2.5
5185.8461	14.00	-2.70	62955.000	2.0	64882.800	2.0
5187.1915	28.01	-3.30	128803.230	2.5	130730.530	2.5
5187.4068	12.00	-1.68	58009.410	0.0	59936.630	1.0
5187.4337	18.00	-4.43	124137.290	3.0	126064.500	2.0
5187.7029	14.00	-2.09	62376.820	3.0	64303.930	3.0
5187.8294	10.00	-4.10	171060.220	2.0	172987.283	3.0
5187.8644	18.00	-1.99	124137.450	2.0	126064.500	2.0
5188.0421	10.00	-3.96	171060.220	2.0	172987.204	2.0
5188.6426	10.00	-3.09	170288.959	2.0	172215.720	3.0
5189.1031	28.01	.21	135261.990	4.5	137188.580	4.5
5189.4856	22.00	-4.47	27025.652	4.0	28952.100	4.0
5189.6957	29.01	-3.85	146107.330	4.0	148033.700	4.0
5190.1538	21.00	-2.40	16021.780	1.5	17947.980	1.5
5190.5769	10.00	-4.41	170289.677	3.0	172215.720	3.0
5190.5769	10.00	-2.95	170289.677	3.0	172215.720	4.0
5191.0134	18.00	-2.69	123557.459	3.0	125483.340	2.0
5191.0970	22.00	-2.63	41818.700	4.0	43744.550	4.0
5191.4987	18.00	-1.42	123557.459	3.0	125483.160	3.0
5191.6632	6.00	-3.78	87218.260	2.0	89143.900	3.0
5191.7170	12.01	.09	110203.580	.5	112129.200	.5
5191.9597	14.00	-2.29	60300.860	2.0	62226.390	1.0
5192.3642	29.01	-3.75	146103.420	6.0	148028.800	5.0
5192.6878	21.00	-2.09	16022.720	2.5	17947.980	1.5
5192.7148	28.01	-2.93	120250.170	3.5	122175.420	2.5
5192.7391	18.00	-1.42	123557.459	3.0	125482.700	3.0
5192.7391	18.00	-.05	123557.459	3.0	125482.700	4.0
5193.0655	18.00	-1.35	122514.290	1.0	124439.410	0.0
5193.3892	15.00	-.46	76021.600	1.5	77946.600	2.5
5193.5241	24.00	-2.99	46637.210	3.0	48562.160	4.0
5194.8437	14.00	-1.99	59273.575	1.0	61198.036	0.0
5195.0085	6.00	-3.19	87218.260	2.0	89142.660	2.0
5195.1650	7.00	-3.53	110395.463	1.5	112319.805	1.5
5195.6348	17.00	-1.99	96494.722	4.5	98418.890	3.5
5196.0074	26.02	-4.94	182392.550	2.0	184316.580	3.0
5196.7097	10.00	-.61	169748.150	1.0	171671.920	1.0
5197.5473	15.00	-2.05	67971.140	.5	69894.600	1.5
5197.7337	10.00	-4.27	170289.319	2.0	172212.710	2.0
5197.7364	28.01	-2.22	120189.550	.5	122112.940	.5
5200.0750	14.00	.29	58893.400	3.0	60815.925	2.0
5200.7919	26.01	-2.55	85679.640	2.5	87601.900	1.5
5200.8325	26.00	-3.24	45833.240	4.0	47755.485	3.0
5201.2248	28.01	-3.31	120222.890	1.5	122144.990	2.5
5201.3980	20.00	-3.23	35835.413	2.0	37757.449	3.0
5201.9825	9.00	-3.21	128219.830	1.5	130141.650	1.5
5202.2208	26.00	-4.44	49227.160	3.0	51148.892	2.0
5202.9301	29.01	-3.77	146107.330	5.0	148028.800	5.0
5203.2280	22.00	-4.33	41823.190	3.0	43744.550	4.0
5203.6343	12.01	.40	110207.990	1.5	112129.200	.5
5204.1219	10.00	-1.00	169748.150	1.0	171669.180	0.0
5204.5012	14.00	-3.42	62376.820	3.0	64297.710	4.0
5205.1244	27.00	-4.63	44454.510	.5	46375.170	1.5
5205.4225	14.00	-3.23	62376.820	3.0	64297.370	3.0
5205.8291	28.01	-2.80	128837.110	5.5	130757.510	4.5
5206.2086	14.00	-1.55	61841.940	2.0	63762.200	3.0
5206.9055	14.00	-.33	57198.027	3.0	59118.030	3.0
5207.0031	26.00	-4.82	49850.610	3.0	51770.577	3.0
5207.3205	15.01	-1.97	103630.600	2.0	105550.450	2.0
5207.3747	14.00	-2.32	61305.670	1.0	63225.500	2.0
5208.3514	24.00	-4.97	46905.030	4.0	48824.500	4.0
5208.5684	21.00	-1.67	37039.770	2.5	38959.160	3.5
5210.3601	18.02	-3.67	207233.090	2.0	209151.820	2.0
5210.6126	7.00	-1.59	104859.700	1.5	106778.337	1.5
5210.7023	14.00	-2.33	58786.860	3.0	60705.464	3.0
5211.1233	7.00	-4.29	110401.356	2.5	112319.805	1.5
5211.5280	15.00	-4.34	77843.300	1.5	79761.600	2.5
5211.8812	26.00	-4.51	53808.370	1.0	55726.540	0.0
5212.9602	17.00	-1.55	95612.357	1.5	97530.130	2.5
5213.0036	18.00	-2.50	122686.200	1.0	124603.957	2.0
5213.1586	15.00	-2.36	77843.900	2.5	79761.600	2.5
5213.5473	18.00	-1.54	122686.400	2.0	124603.957	2.0
5213.7839	18.00	-2.86	124135.740	3.0	126053.210	2.0
5213.8926	6.00	-1.17	86416.550	1.0	88333.980	0.0
5214.3278	15.00	-1.49	66343.330	.5	68260.600	.5
5214.5480	17.00	-3.40	95786.752	2.5	97703.941	2.5
5214.7113	14.00	-3.33	61597.404	3.0	63514.533	4.0
5215.0894	18.00	-4.70	122609.760	1.0	124526.750	0.0
5215.8621	10.00	-4.53	170296.004	1.0	172212.710	1.0
5216.0934	18.00	-1.48	122440.109	2.0	124356.730	2.0
5216.1941	14.00	-.44	58788.880	4.0	60705.464	3.0
5216.5480	20.00	-.54	35835.413	2.0	37751.867	2.0
5217.5934	28.01	-2.71	115956.710	2.5	117872.780	2.5
5218.0019	18.00	-.80	124137.290	3.0	126053.210	2.0
5218.0564	8.03	-2.74	592046.000	3.5	593961.900	2.5
5218.2034	14.00	-.97	61574.814	3.0	63490.660	3.0
5218.3015	9.02	-2.46	442636.270	3.5	444552.080	3.5
5218.4377	18.00	-2.14	124137.450	2.0	126053.210	2.0
5218.8735	15.00	-3.98	72386.100	2.5	74301.700	2.5
5220.5278	7.00	-3.44	112294.007	.5	114209.000	.5
5220.6723	28.01	-4.57	127867.130	4.5	129782.070	3.5
5221.1903	29.01	-4.24	146072.950	3.0	147987.700	2.0
5221.5285	14.00	-2.28	61574.814	3.0	63489.440	2.0
5222.6441	18.00	-2.26	122695.700	4.0	124609.917	4.0
5222.6441	18.00	-.63	122695.700	5.0	124609.917	4.0
5222.9743	14.00	-.67	61574.814	3.0	63488.910	4.0
5223.0179	14.00	-2.20	62450.400	1.0	64364.480	2.0
5223.4546	28.01	-2.74	128837.110	5.5	130751.030	5.5
5223.8913	28.01	-4.74	120199.180	1.5	122112.940	.5
5224.9178	12.00	-1.44	58023.246	2.0	59936.630	1.0
5225.4313	14.00	-3.76	61574.814	3.0	63488.010	3.0
5226.1852	24.00	-4.36	53073.900	3.0	54986.820	3.0
5226.4584	14.01	-1.53	79338.760	1.5	81251.580	1.5
5226.5568	20.00	-1.40	35835.413	2.0	37748.197	1.0
5226.6224	28.01	-4.11	101740.270	3.5	103653.030	3.5
5227.6200	7.00	-3.22	112319.805	1.5	114232.200	1.5
5227.6745	14.00	-1.11	60962.105	2.0	62874.480	2.0
5228.3609	12.00	-1.48	58023.246	2.0	59935.370	2.0
5228.3609	12.00	-.88	58023.246	2.0	59935.370	3.0
5228.3609	12.00	-.88	58023.246	2.0	59935.370	3.0
5230.3686	28.01	-3.86	128853.870	2.5	130765.260	3.5
5230.4780	28.01	-3.19	128853.910	4.5	130765.260	3.5
5230.6587	22.00	-2.86	27907.026	2.0	29818.310	3.0
5230.7435	26.00	-4.02	47017.170	3.0	48928.423	2.0
5231.0801	28.01	-4.01	128799.720	.5	130710.850	.5
5231.2991	23.00	-2.97	38242.460	3.5	40153.510	2.5
5231.3539	22.00	-4.14	36065.750	3.0	37976.780	2.0
5231.6906	37.00	.56	23792.591	0.0	25704.019	0.0
5231.7426	26.00	-4.56	45509.112	1.0	47420.000	2.0
5231.9014	6.00	-1.86	86185.200	2.0	88096.030	2.0
5232.1752	18.00	-1.65	123873.070	0.0	125783.800	1.0
5232.2300	28.01	-4.43	116468.400	1.5	118379.110	2.5
5233.4900	9.02	-1.71	442147.190	2.5	444057.440	1.5
5233.9831	18.00	-.98	120250.150	3.0	122160.220	3.0
5233.9831	18.00	-1.02	120250.150	4.0	122160.220	3.0
5234.7231	15.01	-2.21	127756.300	2.0	129666.100	2.0
5235.1617	18.00	-.96	123882.300	1.0	125791.940	2.0
5235.3537	9.02	-1.26	464728.420	4.5	466637.990	4.5
5235.8307	14.00	-.07	54871.031	1.0	56780.427	1.0
5235.9020	26.00	-4.57	54683.390	4.0	56592.760	4.0
5236.5328	21.00	-2.49	16009.710	.5	17918.850	.5
5237.1061	18.00	-.82	122440.109	2.0	124349.040	3.0
5237.5122	26.00	-2.46	32873.623	4.0	34782.406	5.0
5237.7399	28.01	-3.34	101754.800	2.5	103663.500	1.5
5238.8378	28.01	-2.48	128822.230	1.5	130730.530	2.5
5239.5242	14.00	-3.99	62935.760	3.0	64843.810	4.0
5239.8126	37.00	-.40	23792.591	0.0	25701.056	0.0
5240.6228	18.00	-1.37	123205.830	3.0	125113.480	2.0
5241.0624	20.01	-1.85	88847.310	2.5	90754.800	2.5
5241.0624	20.01	-.55	88847.310	3.5	90754.800	2.5
5241.6505	18.00	-1.87	116999.389	2.0	118906.665	2.0
5241.8072	17.00	-4.70	99269.121	2.5	101176.340	2.5
5241.9693	23.00	-3.74	37940.080	.5	39847.240	1.5
5242.2717	17.00	-3.44	99269.121	2.5	101176.171	3.5
5242.4091	14.00	-1.48	62936.810	4.0	64843.810	4.0
5242.9315	6.00	-3.63	86185.200	2.0	88092.010	1.0
5243.4814	20.01	-.70	88847.310	2.5	90753.920	1.5
5243.4815	28.01	-1.71	120268.810	3.5	122175.420	2.5
5243.8940	28.01	-4.66	134642.090	3.5	136548.550	2.5
5244.5763	26.00	-4.98	49242.680	2.0	51148.892	2.0
5245.1046	26.00	-4.81	49242.872	3.0	51148.892	2.0
5245.1871	25.00	-4.01	57621.900	1.5	59527.890	1.5
5245.3247	27.00	-2.58	43199.650	2.5	45105.590	3.5
5246.2689	14.00	-1.85	59056.508	1.0	60962.105	2.0
5246.6461	25.00	-3.28	57621.900	1.5	59527.360	.5
5246.8663	6.00	-2.95	88061.280	1.0	89966.660	2.0
5247.8028	28.01	-3.79	134642.090	3.5	136547.130	3.5
5247.8193	14.00	-.92	58801.524	1.0	60706.558	1.0
5248.4640	22.00	-4.11	44163.240	5.0	46068.040	4.0
5248.9875	11.00	-.40	37296.320	.5	39200.930	1.5
5249.5388	28.01	-3.28	134642.090	3.5	136546.500	4.5
5249.7952	22.00	-4.23	37622.573	3.0	39526.890	2.0
5250.0351	18.00	-1.36	123873.070	0.0	125777.300	1.0
5250.1177	27.00	-4.91	51199.580	3.5	53103.780	3.5
5250.5065	18.00	-1.46	121653.400	3.0	123557.459	3.0
5250.5065	18.00	-.15	121653.400	4.0	123557.459	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5250.6086	17.00	.65	94827.150	2.5	96731.172	3.5
5251.7725	28.01	-3.68	128853.910	4.5	130757.510	4.5
5252.1864	28.01	-1.94	120271.970	2.5	122175.420	2.5
5252.3796	28.01	-3.54	128827.150	3.5	130730.530	2.5
5252.5452	11.00	-.15	37297.610	1.5	39200.930	2.5
5252.5452	11.00	-1.10	37297.610	1.5	39200.930	1.5
5252.8570	26.00	-2.66	49558.500	4.0	51461.707	4.0
5252.9867	21.00	-3.30	36276.760	1.5	38179.920	1.5
5253.0446	18.00	-1.57	121654.320	3.0	123557.459	3.0
5253.3870	28.00	-2.10	47424.830	1.0	49327.845	2.0
5253.7624	18.00	-2.75	121654.580	2.0	123557.459	3.0
5254.0634	28.01	-2.67	128862.490	4.5	130765.260	3.5
5255.6654	6.00	-.71	83497.620	2.0	85399.810	2.0
5256.1075	26.00	-2.48	49558.500	4.0	51460.530	3.0
5256.2540	18.00	-2.86	122707.940	3.0	124609.917	4.0
5257.4315	18.00	-1.46	122479.459	1.0	124381.010	2.0
5257.5477	14.00	-1.86	61303.381	3.0	63204.890	2.0
5257.5725	18.00	-1.36	123882.300	1.0	125783.800	1.0
5257.6832	14.00	-3.91	62450.400	1.0	64351.860	1.0
5257.8767	24.00	-4.39	33671.550	3.0	35572.940	2.0
5258.5404	18.00	.75	123385.130	0.0	125286.280	1.0
5259.4257	28.01	-4.15	134607.370	4.5	136508.200	5.5
5260.0428	14.00	-2.13	61304.283	2.0	63204.890	2.0
5260.3943	25.00	-4.14	55405.140	2.5	57305.620	3.5
5260.3943	15.00	-2.22	66360.120	1.5	68260.600	.5
5260.8372	28.01	-3.73	131834.940	2.5	133735.260	2.5
5261.1971	28.01	-3.80	134642.090	3.5	136542.280	3.5
5261.2719	14.00	-.77	61614.370	5.0	63514.533	4.0
5261.3024	26.00	-3.54	49804.900	3.0	51705.052	2.0
5261.6125	28.01	-3.17	131834.940	2.5	133734.980	3.5
5261.7787	9.02	-3.53	464921.740	3.5	466821.720	3.5
5262.1387	18.00	-2.17	124311.720	1.0	126211.570	1.0
5262.1663	14.00	-1.23	61305.050	3.0	63204.890	2.0
5262.6678	14.00	-1.29	60645.441	2.0	62545.100	1.0
5263.4131	15.01	-1.09	104102.600	2.0	106001.990	1.0
5263.5877	28.00	-2.03	48817.600	1.0	50716.927	1.0
5263.5960	14.00	-2.55	61198.036	0.0	63097.360	1.0
5264.1198	22.00	-3.15	17423.853	2.0	19322.988	2.0
5264.4081	7.00	-2.46	104859.700	1.5	106758.731	.5
5265.3813	23.00	-4.15	37342.660	2.5	39241.340	2.5
5265.5089	18.00	-1.98	120188.340	1.0	122086.974	2.0
5265.7585	7.00	-2.83	110395.463	1.5	112294.007	.5
5265.9360	25.00	-2.94	57485.970	2.5	59384.450	1.5
5266.1025	21.01	-4.34	55715.520	1.0	57613.940	2.0
5266.3965	18.00	-1.03	120188.660	2.0	122086.974	2.0
5266.5463	28.01	-3.17	128867.000	3.5	130765.260	3.5
5266.8793	18.00	-.98	122160.220	3.0	124058.360	3.0
5266.8793	18.00	-1.08	122160.220	3.0	124058.360	4.0
5267.6119	28.00	-4.96	48953.344	1.0	50851.220	1.0
5267.6202	26.00	-4.41	52214.330	1.0	54112.203	2.0
5267.6840	6.00	-3.63	86362.520	1.0	88260.370	2.0
5268.0172	8.01	-3.80	253791.870	1.5	255689.600	2.5
5268.2392	23.00	-4.83	42020.930	3.5	43918.580	2.5
5269.0362	14.00	-3.43	61617.170	4.0	63514.533	4.0
5269.7110	28.01	-3.77	128853.910	4.5	130751.030	5.5
5269.8499	21.00	-2.48	16021.780	1.5	17918.850	.5
5269.9138	22.00	-2.28	37743.933	3.0	39640.980	3.0
5270.2638	18.00	-1.27	122479.459	1.0	124376.380	1.0
5270.4889	23.00	-3.25	35092.360	1.5	36989.200	2.5
5270.4889	14.00	-3.26	62985.960	1.0	64882.800	2.0
5270.5445	10.00	-4.97	170585.040	1.0	172481.860	1.0
5270.7946	10.00	-2.38	169748.150	1.0	171644.880	1.0
5271.4894	14.00	-2.31	62986.320	2.0	64882.800	2.0
5271.5172	24.01	-4.69	51669.750	2.5	53566.220	3.5
5271.7117	15.00	-4.79	80336.300	2.5	82232.700	2.5
5271.9898	14.01	-.58	79355.280	2.5	81251.580	1.5
5271.9926	17.00	-1.40	98693.013	3.5	100589.312	2.5
5272.4346	28.01	-3.68	99844.130	3.5	101740.270	3.5
5272.5681	17.00	-2.71	98693.220	2.5	100589.312	2.5
5272.7767	18.00	-.94	122707.940	3.0	124603.957	2.0
5272.9074	24.00	-3.07	48661.590	3.0	50557.560	4.0
5273.4442	18.00	-2.10	122708.180	2.0	124603.957	2.0
5273.6862	28.01	-4.55	135382.530	1.5	137278.220	1.5
5273.8810	10.00	-4.92	170320.100	4.0	172215.720	3.0
5273.8810	10.00	-4.83	170320.100	5.0	172215.720	4.0
5274.2704	18.00	-3.57	123935.970	1.0	125831.450	0.0
5274.4096	28.01	-2.96	128855.600	6.5	130751.030	5.5
5274.4096	22.00	-9.38	13981.750	1.0	15877.180	2.0
5274.8270	23.00	-4.96	39597.010	4.5	41492.290	3.5
5274.9384	28.01	-2.55	120189.550	.5	122084.790	1.5
5275.5229	27.00	-4.65	44480.140	2.5	46375.170	1.5
5275.5508	28.01	-2.70	128862.490	4.5	130757.510	4.5
5275.6065	18.00	-1.66	123882.300	1.0	125777.300	1.0
5276.1076	28.01	-3.29	120250.170	3.5	122144.990	2.5
5277.2467	18.00	-4.96	123172.090	1.0	125066.501	2.0
5278.3723	10.00	-1.61	169748.150	1.0	171642.157	2.0
5278.5312	18.02	-4.72	207233.090	2.0	209127.040	1.0
5278.7263	18.00	-2.38	122160.220	3.0	124054.100	3.0
5279.4232	28.01	-4.11	115870.280	2.5	117763.910	1.5
5279.5905	23.00	-4.56	38106.320	2.5	39999.890	2.5
5280.0953	7.00	-3.60	105143.680	2.5	107037.069	2.5
5280.1176	9.00	-1.38	128122.719	1.5	130016.100	2.5
5280.8455	14.01	-1.32	126305.080	3.5	128198.200	3.5
5280.8455	14.01	.22	126305.080	3.5	128198.200	4.5
5280.8455	14.01	.11	126305.080	2.5	128198.200	3.5
5281.2360	18.01	.14	201608.820	3.5	203501.800	2.5
5281.8778	18.00	-2.24	123220.730	2.0	125113.480	2.0
5283.0752	14.00	-.68	57328.789	1.0	59221.110	0.0
5283.2260	7.00	-3.12	104886.070	.5	106778.337	1.5
5283.5248	26.01	-2.88	85679.640	2.5	87571.800	2.5
5283.7203	19.00	-1.34	32648.350	.5	34540.440	1.5
5283.9241	18.00	-3.11	122717.900	3.0	124609.917	4.0
5283.9241	18.00	-1.57	122717.900	4.0	124609.917	4.0
5284.3067	19.00	-1.64	32648.350	.5	34540.230	.5
5284.4799	10.00	-5.00	169748.150	1.0	171639.968	2.0
5285.0051	28.01	-2.58	128799.720	.5	130691.350	1.5
5285.5640	18.00	-2.06	122160.220	3.0	124051.650	2.0
5286.0111	23.00	-3.84	35092.360	1.5	36983.630	1.5
5286.1508	18.00	-1.66	122160.220	3.0	124051.440	3.0
5286.4863	18.00	-2.34	124311.720	1.0	126202.820	0.0
5287.1684	14.00	-1.19	60705.464	3.0	62596.320	2.0
5287.4090	6.00	-2.15	86369.600	2.0	88260.370	2.0
5287.6355	22.00	-3.93	37824.748	4.0	39715.437	3.0
5288.0522	28.01	-3.56	120250.170	3.5	122140.710	4.5
5288.1361	28.01	-3.42	128867.000	3.5	130757.510	4.5
5288.7712	10.00	-4.07	170585.040	1.0	172475.323	2.0
5289.3672	28.01	.84	136673.640	4.5	138563.710	3.5
5289.4231	28.01	-2.50	120222.890	1.5	122112.940	.5
5291.3829	14.00	-2.94	62954.460	3.0	64843.810	4.0
5291.9991	29.01	-1.73	135759.970	2.0	137649.100	2.0
5292.3689	17.00	-3.45	96494.722	4.5	98383.720	3.5
5292.9657	14.00	-1.46	61598.145	2.0	63486.930	1.0
5293.1815	17.00	-.67	96494.722	4.5	98383.430	4.5
5293.3580	18.00	-2.98	123903.295	2.0	125791.940	2.0
5293.4281	28.01	-3.89	128822.230	1.5	130710.850	.5
5293.6523	28.01	-3.99	128862.490	4.5	130751.030	5.5
5294.0252	18.00	-.92	123261.593	2.0	125150.000	3.0
5294.1878	10.00	-.62	169797.190	3.0	171685.539	3.0
5294.3252	29.01	-3.88	148361.700	1.0	150250.000	2.0
5294.8299	28.01	-4.48	128803.230	2.5	130691.350	1.5
5294.8859	10.00	-1.92	169797.190	3.0	171685.290	2.0
5295.4469	28.01	-4.29	134658.600	4.5	136546.500	4.5
5296.2324	28.01	-3.13	128869.890	5.5	130757.510	4.5
5296.3446	25.00	-4.46	45013.550	2.5	46901.130	2.5
5296.3502	17.00	-1.50	95786.752	2.5	97674.330	2.5
5297.0181	17.00	-.92	95786.752	2.5	97674.092	3.5
5297.4110	15.00	-2.45	75956.700	3.5	77843.900	2.5
5299.6014	18.00	-.22	122160.220	3.0	124046.640	4.0
5299.7138	15.00	-2.41	66360.120	1.5	68246.500	2.5
5300.4219	17.00	-3.94	100347.182	2.5	102233.310	2.5
5300.6215	18.00	-4.55	122717.900	3.0	124603.957	2.0
5301.2736	20.00	.82	42919.053	2.0	44804.878	3.0
5302.6345	20.00	-1.60	46303.649	2.0	48188.990	3.0
5303.3912	20.00	-.92	46301.973	1.0	48187.045	2.0
5305.9526	10.00	-1.55	169797.190	3.0	171681.352	2.0
5307.6850	14.00	-4.78	62667.823	3.0	64551.370	4.0
5308.0260	20.00	-.81	46303.649	2.0	48187.075	3.0
5308.1105	20.00	-1.72	46303.649	2.0	48187.045	2.0
5308.2769	55.00	.63	22588.890	0.0	24472.740	0.0
5309.7908	30.02	-3.50	260613.100	5.0	262495.900	4.0
5310.2140	10.00	-1.30	170578.390	1.0	172461.040	1.0
5310.9192	9.00	-1.75	128338.720	.5	130221.120	1.5
5311.4270	9.02	-3.58	464939.500	2.5	466821.720	3.5
5311.4665	14.00	-4.58	62669.164	3.0	64551.370	4.0
5311.5089	14.00	-3.85	62669.179	4.0	64551.370	4.0
5312.8101	28.01	-4.19	114942.420	1.5	116824.150	2.5
5312.8666	22.00	-4.31	40302.950	3.0	42184.660	4.0
5313.0078	15.00	-2.07	67971.140	.5	69852.800	.5
5313.1547	18.00	.19	120753.520	3.0	122635.128	2.0
5313.5725	10.00	-3.68	170689.370	0.0	172570.830	1.0
5313.8239	22.00	-3.05	17540.205	3.0	19421.576	3.0
5314.0245	28.01	-3.33	120203.490	2.5	122084.790	1.5
5314.4199	18.00	-2.79	122160.220	3.0	124041.380	2.0
5314.4764	28.01	-4.32	128869.890	5.5	130751.030	5.5
5314.7053	20.00	-.60	46306.059	3.0	48187.118	4.0
5314.8268	20.00	-1.66	46306.059	3.0	48187.075	3.0
5314.9002	28.01	-2.67	131928.770	4.5	133809.760	3.5
5314.9116	20.00	-3.20	46306.059	3.0	48187.045	2.0
5315.2959	26.01	-4.49	47626.140	.5	49506.990	1.5
5315.5219	9.02	-3.60	442694.580	1.5	444575.350	2.5
5315.6265	20.00	-.75	46308.257	2.0	48188.990	3.0
5315.8781	17.00	-2.69	95786.752	2.5	97667.396	3.5
5315.9007	26.00	-3.40	50186.814	2.0	52067.450	2.0
5316.0590	6.00	-3.09	86317.640	2.0	88198.220	2.0
5316.2710	18.00	-1.88	123903.295	2.0	125783.800	1.0
5316.2851	23.00	-3.69	38003.930	1.5	39884.430	1.5
5316.3926	14.00	-.12	60496.358	2.0	62376.820	3.0
5316.9920	28.01	-2.09	136960.750	2.5	138841.000	3.5
5317.2748	9.02	.47	464728.420	4.5	466608.570	5.5
5317.5915	10.00	-2.00	170578.390	1.0	172458.428	2.0
5317.9253	22.00	-3.18	40844.190	3.0	42724.110	2.0
5318.5478	17.01	-4.76	126782.800	3.0	128662.500	2.0
5319.1420	10.00	-.27	170578.390	1.0	172457.880	2.0
5319.3118	22.00	-4.42	34535.040	2.0	36414.470	3.0
5321.0445	20.00	-1.66	46308.257	2.0	48187.075	3.0
5321.1295	20.00	-2.52	46308.257	2.0	48187.045	2.0
5321.8291	10.00	-1.40	169797.190	3.0	171675.731	3.0
5322.0019	28.01	-2.70	134670.070	1.5	136548.550	2.5
5322.0586	14.00	-3.08	62519.660	2.0	64398.120	2.0
5322.5772	10.00	.03	169797.190	3.0	171675.467	4.0
5323.3339	9.00	-2.58	128611.920	1.5	130489.930	.5
5323.7307	24.00	-3.55	46637.210	3.0	48515.080	3.0
5323.9008	18.02	-3.99	209127.040	1.0	211004.850	2.0
5325.4294	18.00	-1.14	122479.459	1.0	124356.730	2.0
5325.6308	14.00	-.30	62966.610	5.0	64843.810	4.0
5326.7658	15.00	-4.41	78132.600	.5	80009.400	.5
5326.7659	23.00	-4.17	38242.460	3.5	40119.260	2.5
5327.1064	10.01	-1.83	301948.000	1.5	303824.680	2.5
5327.1462	17.00	-3.05	98372.970	1.5	100249.636	2.5
5327.1633	28.01	-2.18	128853.870	2.5	130730.530	2.5
5327.5323	10.00	-3.74	170689.370	0.0	172565.900	1.0
5327.5891	14.00	-3.42	62141.800	1.0	64018.310	1.0
5327.6459	18.01	-2.33	203344.980	1.5	205221.470	1.5
5328.1314	22.00	-4.67	18061.540	1.0	19937.859	1.0
5328.4523	17.00	-1.93	98373.430	2.5	100249.636	2.5
5328.5205	7.00	-3.21	105119.850	1.5	106996.032	1.5
5328.5262	28.01	-2.62	120268.810	3.5	122144.990	2.5
5328.8102	6.00	-1.01	86185.200	2.0	88061.280	1.0
5329.0374	10.00	-1.00	170585.040	1.0	172461.040	1.0
5329.3101	14.00	-.52	57017.496	2.0	58893.400	3.0
5330.1171	9.00	-.72	128140.480	2.5	130016.100	2.5
5330.9698	14.00	-3.35	62968.490	4.0	64843.810	4.0
5331.1119	6.00	-2.46	88096.030	2.0	89971.300	3.0
5331.3109	18.01	-.91	186890.950	2.5	188766.150	2.5
5331.3166	17.00	-1.98	100347.182	2.5	102222.380	3.5
5332.2777	9.02	-.46	464321.840	2.5	466196.700	3.5
5332.5906	25.00	-2.57	57485.970	2.5	59360.720	2.5
5332.8466	6.00	-2.48	86317.640	2.0	88192.300	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5332.8751	6.00	-2.03	88092.010	1.0	89966.660	2.0
5332.9774	12.00	-1.80	58023.246	2.0	59897.860	1.0
5332.9774	12.00	-2.28	58023.246	2.0	59897.860	2.0
5333.5579	9.00	-1.30	128184.990	.5	130059.400	.5
5333.9563	9.02	-3.57	442748.850	2.5	444623.120	3.5
5334.0701	14.00	-1.60	62421.030	3.0	64295.260	3.0
5334.1014	14.00	-1.81	60645.441	2.0	62519.660	2.0
5334.3547	19.00	-.61	32598.300	2.5	34472.430	1.5
5334.7106	18.00	-3.64	123903.295	2.0	125777.300	1.0
5334.7248	19.00	-1.56	32598.430	1.5	34472.430	1.5
5335.0522	17.00	-1.48	98372.970	1.5	100246.855	1.5
5335.4366	19.00	-.87	32598.430	1.5	34472.180	.5
5336.3621	17.00	-.54	98373.430	2.5	100246.855	1.5
5336.4675	10.00	-.31	170585.040	1.0	172458.428	2.0
5337.5160	28.01	-2.50	120271.970	2.5	122144.990	2.5
5337.8295	18.01	-2.24	202544.320	2.5	204417.230	1.5
5338.0290	6.00	-3.88	87218.260	2.0	89091.100	1.0
5338.1430	30.02	-4.68	260623.100	4.0	262495.900	4.0
5338.2199	7.00	-2.51	110447.032	1.5	112319.805	1.5
5338.2285	6.00	-2.09	83752.410	1.0	85625.180	0.0
5338.5392	7.00	-1.96	104886.070	.5	106758.731	.5
5339.0553	24.00	-3.65	42253.420	1.0	44125.900	1.0
5339.3518	26.00	-4.53	47755.485	3.0	49627.861	4.0
5339.5970	14.00	-1.64	62450.400	1.0	64322.690	0.0
5340.0819	22.00	-2.27	37654.770	2.0	39526.890	2.0
5340.5098	27.00	-2.53	46329.630	2.5	48201.600	3.5
5340.7096	28.01	-3.49	120268.810	3.5	122140.710	4.5
5341.1261	22.00	-1.84	20209.444	2.0	22081.198	2.0
5341.5342	18.00	-1.29	122440.109	2.0	124311.720	1.0
5341.6570	20.00	-4.24	46164.644	2.0	48036.212	3.0
5341.8567	17.00	-2.66	100347.182	2.5	102218.680	2.5
5342.0594	20.00	-2.70	46164.785	3.0	48036.212	3.0
5342.1936	24.00	-3.33	42254.520	2.0	44125.900	1.0
5342.4220	14.00	-.63	62802.860	3.0	64674.160	4.0
5342.5904	20.00	-1.64	46164.971	4.0	48036.212	3.0
5342.7132	17.00	-3.83	100347.182	2.5	102218.380	1.5
5343.0701	14.00	-1.45	58774.368	3.0	60645.441	2.0
5343.1072	6.00	-2.29	86327.160	3.0	88198.220	2.0
5343.3071	6.00	-2.91	86389.380	2.0	88260.370	2.0
5343.5385	10.00	-1.69	169814.630	2.0	171685.539	3.0
5343.9355	6.00	-1.95	88096.030	2.0	89966.800	3.0
5344.2498	10.00	-.69	169814.630	2.0	171685.290	2.0
5344.3355	6.00	-2.10	88096.030	2.0	89966.660	2.0
5345.1069	6.00	-1.81	86321.940	0.0	88192.300	1.0
5345.3642	28.01	-3.62	120270.440	5.5	122140.710	4.5
5345.3927	21.00	-4.38	32696.840	2.5	34567.100	3.5
5346.1646	14.00	-1.78	58775.451	2.0	60645.441	2.0
5346.3933	22.00	-8.85	14105.680	3.0	15975.590	3.0
5346.9937	15.01	-1.40	127756.300	2.0	129626.000	1.0
5347.3942	27.00	-2.18	46746.000	2.5	48615.560	2.5
5348.1951	24.00	-3.56	53117.540	4.0	54986.820	3.0
5348.4412	28.00	-2.30	42605.964	3.0	44475.158	2.0
5348.4526	9.02	-.89	464321.840	2.5	466191.030	2.5
5348.6530	28.01	-2.60	128822.230	1.5	130691.350	1.5
5349.0164	7.00	-4.13	112294.007	.5	114163.000	1.5
5349.5974	22.00	-3.06	41714.350	2.0	43583.140	3.0
5349.7435	18.00	-1.55	122686.200	1.0	124554.939	1.0
5350.1815	20.00	-2.74	46164.644	2.0	48033.230	2.0
5350.3160	18.00	-1.37	122686.400	2.0	124554.939	1.0
5350.4564	12.00	-1.69	58580.230	1.0	60448.720	0.0
5350.5852	20.00	-1.83	46164.785	3.0	48033.230	2.0
5351.0176	10.00	-1.61	169814.630	2.0	171682.924	1.0
5351.2010	18.01	-3.70	204951.090	3.5	206819.320	4.5
5351.3442	28.01	-2.72	120272.530	4.5	122140.710	4.5
5352.3584	26.00	-4.93	54555.450	4.0	56423.276	4.0
5354.2962	6.00	-1.76	87218.260	2.0	89085.410	1.0
5354.4396	15.00	.03	76021.600	1.5	77888.700	1.5
5354.6117	27.00	-4.16	49078.430	1.5	50945.470	.5
5354.9100	20.00	-2.03	46164.644	2.0	48031.580	1.0
5355.1280	9.02	-4.94	464921.740	3.5	466788.600	2.5
5355.5239	10.00	-1.77	169814.630	2.0	171681.352	2.0
5355.5296	18.00	-4.52	122514.290	1.0	124381.010	2.0
5355.9026	6.00	-1.42	86331.630	1.0	88198.220	2.0
5357.1453	17.00	-3.40	92602.700	.5	94468.857	.5
5357.1654	7.00	-.33	111060.905	.5	112927.055	1.5
5357.4755	17.00	-.48	99668.388	3.5	101534.430	4.5
5357.8373	17.00	-3.71	98383.720	3.5	100249.636	2.5
5358.1129	28.01	-4.68	134658.600	4.5	136524.420	4.5
5359.4917	9.02	-4.20	464921.740	3.5	466787.080	4.5
5359.7388	14.00	-1.23	62156.816	2.0	64022.070	3.0
5360.5751	26.00	-4.92	47377.909	4.0	49242.872	3.0
5360.8999	28.01	-4.40	115209.850	3.5	117074.700	3.5
5361.5555	17.00	-2.52	99668.388	3.5	101533.010	2.5
5361.9523	14.00	-1.85	62156.816	2.0	64021.300	2.0
5362.2514	6.00	-.52	82251.710	0.0	84116.090	1.0
5363.7762	10.00	-2.01	170597.190	2.0	172461.040	1.0
5363.8049	6.00	-2.08	87218.260	2.0	89082.100	3.0
5364.6972	28.01	-2.18	128867.000	3.5	130730.530	2.5
5365.7453	26.00	-4.31	45333.834	2.0	47197.000	2.0
5365.7626	28.01	-4.33	114869.350	1.5	116732.510	2.5
5366.2061	26.00	-2.96	50186.814	2.0	52049.820	2.0
5366.7218	14.00	-.07	60487.103	1.0	62349.930	2.0
5367.2606	27.00	-2.67	43242.950	2.5	45105.590	3.5
5367.4220	14.00	-1.02	62156.816	2.0	64019.400	3.0
5367.4622	6.00	-4.03	86397.800	3.0	88260.370	2.0
5367.7793	25.00	-3.47	57705.830	.5	59568.290	.5
5368.0675	7.00	-.60	104615.440	1.5	106477.800	.5
5368.8459	18.00	-1.44	122514.290	1.0	124376.380	1.0
5369.3937	28.01	-1.94	120222.890	1.5	122084.790	1.5
5369.6245	26.00	-4.82	51969.140	3.0	53830.960	3.0
5370.1436	6.00	-2.97	87218.260	2.0	89079.900	2.0
5370.2879	28.01	-2.37	122790.410	4.5	124652.000	4.5
5370.5475	14.02	-1.49	240549.770	2.0	242411.270	3.0
5370.6024	12.00	-1.29	59041.019	2.0	60902.500	2.0
5370.6024	12.00	-.68	59041.019	2.0	60902.500	3.0
5370.6024	12.00	-.67	59041.019	2.0	60902.500	3.0
5370.7466	10.00	-.08	170597.190	2.0	172458.621	3.0
5371.3035	10.00	-1.05	170597.190	2.0	172458.428	2.0
5371.3959	12.00	-2.37	59318.764	3.0	61179.970	2.0
5371.3959	12.00	-1.05	59318.764	3.0	61179.970	3.0
5371.3959	12.00	-1.24	59318.764	3.0	61179.970	3.0
5371.3959	12.00	.23	59318.764	3.0	61179.970	4.0
5371.4276	12.00	-1.00	59318.775	2.0	61179.970	2.0
5371.4276	12.00	-.25	59318.775	2.0	61179.970	3.0
5371.4276	12.00	-.62	59318.775	2.0	61179.970	3.0
5371.4420	28.01	-2.69	134670.070	1.5	136531.260	1.5
5371.4796	12.00	-.10	59318.793	1.0	61179.970	2.0
5371.6729	14.02	-2.40	240549.770	2.0	242410.880	2.0
5371.6989	10.00	-.15	169814.630	2.0	171675.731	3.0
5371.8462	14.00	-2.00	62802.860	3.0	64663.910	4.0
5372.8855	10.00	-1.23	170597.190	2.0	172457.880	2.0
5372.9404	18.00	-2.11	123205.830	3.0	125066.501	2.0
5372.9432	6.00	-2.06	86331.630	1.0	88192.300	1.0
5373.0010	26.00	-4.39	54237.200	4.0	56097.850	3.0
5373.0529	22.00	-4.92	18145.400	2.0	20006.032	2.0
5373.0587	7.00	-2.85	105119.850	1.5	106980.480	.5
5373.2609	20.00	-.18	35896.889	4.0	37757.449	3.0
5373.2811	17.00	-2.01	99681.887	1.5	101542.440	1.5
5373.5728	10.00	-1.62	167867.178	0.0	169727.630	1.0
5374.0119	13.01	-.23	144638.900	3.0	146499.200	4.0
5374.3007	15.00	-1.84	77655.200	3.5	79515.400	3.5
5374.5463	7.00	-1.17	105008.520	2.5	106868.635	3.5
5374.9364	14.00	-2.45	62226.390	1.0	64086.370	1.0
5376.0000	12.00	-3.06	58575.487	3.0	60435.099	2.0
5376.0348	28.01	-2.98	120281.110	4.5	122140.710	4.5
5376.0897	12.00	-1.58	58575.518	3.0	60435.099	2.0
5376.0897	12.00	-3.05	58575.518	2.0	60435.099	2.0
5376.1793	28.01	-4.53	119833.000	5.5	121692.550	4.5
5377.1625	21.00	-4.03	16141.040	2.5	18000.250	2.5
5377.5385	17.00	-1.50	95400.731	2.5	97259.811	1.5
5378.0592	25.00	-3.58	57621.900	1.5	59480.800	2.5
5378.0592	13.01	-.76	144638.900	2.0	146497.800	3.0
5378.0592	13.01	-1.66	144638.900	3.0	146497.800	3.0
5378.9822	14.00	-.62	58786.860	3.0	60645.441	2.0
5379.2456	18.00	-1.35	123254.990	1.0	125113.480	2.0
5379.3904	12.00	-2.97	58442.843	3.0	60301.283	2.0
5379.3904	12.00	-1.64	58442.843	3.0	60301.283	3.0
5379.3904	12.00	-1.84	58442.843	3.0	60301.283	3.0
5379.3904	12.00	-.36	58442.843	3.0	60301.283	4.0
5379.4193	12.00	-1.60	58442.853	2.0	60301.283	2.0
5379.4193	12.00	-.84	58442.853	2.0	60301.283	3.0
5379.4193	12.00	-1.24	58442.853	2.0	60301.283	3.0
5379.4801	12.00	-.70	58442.874	1.0	60301.283	2.0
5380.0851	13.01	-.31	146274.400	2.0	148132.600	3.0
5380.1431	14.00	-1.74	61936.130	1.0	63794.310	2.0
5381.2435	13.01	-1.29	144638.900	2.0	146496.700	2.0
5381.2435	13.01	-.56	144638.900	1.0	146496.700	2.0
5381.2435	13.01	-2.84	144638.900	3.0	146496.700	2.0
5382.4314	14.00	-1.40	61936.130	1.0	63793.520	1.0
5382.7212	10.00	-1.84	169814.630	2.0	171671.920	1.0
5382.8081	26.01	-4.05	85679.640	2.5	87536.900	3.5
5383.0864	18.00	-.42	120229.810	3.0	122086.974	2.0
5383.8401	18.00	-1.54	120230.070	2.0	122086.974	2.0
5384.1765	22.00	-4.49	27025.652	4.0	28882.440	3.0
5385.3888	10.00	-4.91	171752.100	1.0	173608.470	2.0
5385.3888	10.00	-4.91	171752.100	1.0	173608.470	2.0
5385.8820	13.01	-1.12	146276.500	3.0	148132.700	2.0
5386.5494	18.00	-2.64	123935.970	1.0	125791.940	2.0
5388.4482	18.00	-1.92	122282.134	2.0	124137.450	2.0
5388.6690	27.00	-3.73	49197.740	4.5	51052.980	3.5
5388.9130	18.00	-.80	122282.134	2.0	124137.290	3.0
5389.5986	22.00	-5.00	15220.390	5.0	17075.310	4.0
5389.7323	18.00	-1.96	114805.180	2.0	116660.054	1.0
5389.7468	12.00	-2.76	58580.230	1.0	60435.099	2.0
5389.8311	18.00	-4.64	124356.730	2.0	126211.570	1.0
5390.4123	9.00	-1.57	128520.220	.5	130374.860	1.5
5390.4995	26.02	-4.95	182392.550	2.0	184247.160	2.0
5391.1681	14.00	-1.88	62231.990	2.0	64086.370	1.0
5391.8659	25.00	-4.27	49591.510	1.5	51445.650	1.5
5393.3959	26.00	-3.91	52213.207	3.0	54066.821	2.0
5393.4192	18.00	-2.56	122282.134	2.0	124135.740	3.0
5393.4949	25.00	-3.29	57485.970	2.5	59339.550	3.5
5393.5181	14.00	-.43	60496.358	2.0	62349.930	2.0
5393.7859	28.01	-4.99	134539.370	2.5	136392.850	3.5
5394.1002	17.00	-1.51	99668.388	3.5	101521.760	3.5
5394.1264	26.00	-4.40	52213.207	3.0	54066.570	4.0
5394.5368	28.00	-2.52	49271.578	3.0	51124.800	3.0
5394.6009	15.00	-1.31	77843.300	1.5	79696.500	1.5
5394.8046	9.02	-3.90	442636.270	3.5	444489.400	2.5
5394.8191	26.00	-4.03	50186.814	2.0	52039.939	1.0
5395.0957	18.02	-4.51	209151.820	2.0	211004.850	2.0
5395.1248	14.00	-4.06	62545.100	1.0	64398.120	2.0
5395.3345	17.00	-3.07	99668.388	3.5	101521.336	4.5
5395.6490	14.01	-.84	79338.760	1.5	81191.600	.5
5396.3480	15.00	-3.41	77843.900	2.5	79696.500	1.5
5397.0705	7.00	-2.64	105143.680	2.5	106996.032	1.5
5397.2219	16.00	-1.43	79142.080	4.0	80994.380	4.0
5397.2219	16.00	-.56	79142.080	5.0	80994.380	4.0
5397.2219	16.00	-2.60	79142.080	3.0	80994.380	4.0
5397.6999	18.00	-.31	121653.400	3.0	123505.536	2.0
5397.7582	18.00	-.39	116660.054	1.0	118512.170	0.0
5398.4256	18.00	-.36	123261.593	2.0	125113.480	2.0
5399.3207	9.00	-3.09	128523.280	1.5	130374.860	1.5
5400.0090	17.00	-.89	97666.650	4.5	99517.994	4.5
5400.3824	18.00	-3.83	121654.320	3.0	123505.536	2.0
5400.5603	14.00	-1.21	60962.105	2.0	62813.260	1.0
5400.6537	17.00	-4.34	99681.887	1.5	101533.010	2.5
5400.6624	21.00	-4.27	16096.860	1.5	17947.980	1.5
5400.7704	17.00	-1.42	99681.887	1.5	101532.970	1.5
5400.8229	7.00	-.52	105017.570	3.5	106868.635	3.5
5401.1410	18.00	-1.46	121654.580	2.0	123505.536	2.0
5401.5057	20.00	-3.97	46182.399	3.0	48033.230	2.0
5402.1858	17.00	-2.42	97667.396	3.5	99517.994	4.5
5402.2675	28.01	.91	135338.010	5.5	137188.580	4.5
5402.9829	14.00	-3.06	60815.925	2.0	62666.250	1.0
5403.9904	9.02	-4.29	464921.740	3.5	466771.720	3.5
5405.1007	28.01	-3.34	134658.600	4.5	136508.200	5.5
5405.2147	7.00	-2.60	110470.244	2.5	112319.805	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5405.3345	14.00	-1.58	62534.080	4.0	64383.600	4.0
5405.3637	9.00	-2.74	128525.350	2.5	130374.860	1.5
5405.3900	9.00	-2.46	128087.829	2.5	129937.330	1.5
5405.3929	12.02	-.28	582839.700	3.0	584689.200	4.0
5405.5975	21.00	-3.16	36330.490	2.5	38179.920	1.5
5405.8635	13.00	-.14	44166.417	1.5	46015.756	2.5
5406.1208	26.00	-4.91	47377.909	4.0	49227.160	3.0
5406.5622	9.02	-3.91	464939.500	2.5	466788.600	2.5
5406.6207	28.01	-4.33	129284.500	2.5	131133.580	2.5
5407.2348	14.00	-3.69	62141.800	1.0	63990.670	2.0
5407.7028	22.00	-9.18	14028.470	2.0	15877.180	2.0
5409.1950	12.02	-2.19	582839.700	3.0	584687.900	3.0
5409.2799	7.00	-.14	111060.905	.5	112909.076	1.5
5410.8052	10.00	-3.59	171009.340	1.0	172856.990	1.0
5412.0354	18.01	-.94	200406.360	.5	202253.590	1.5
5412.3284	28.01	-3.32	134670.070	1.5	136517.200	.5
5412.7826	7.00	-3.21	110447.032	1.5	112294.007	.5
5413.0229	13.00	.01	44168.863	2.5	46015.756	3.5
5413.0229	13.00	-1.29	44168.863	2.5	46015.756	2.5
5413.4157	18.00	-1.73	122708.180	2.0	124554.939	1.0
5413.6473	27.00	-4.51	49078.430	1.5	50925.110	1.5
5414.7117	26.00	-3.61	33765.291	2.0	35611.608	3.0
5416.1110	10.00	-.43	169839.450	1.0	171685.290	2.0
5416.3134	18.00	-.96	123220.730	2.0	125066.501	2.0
5417.7840	28.01	-3.32	133734.980	3.5	135580.250	4.5
5417.8221	10.00	-4.63	169797.190	3.0	171642.447	3.0
5418.0482	22.00	-4.61	44162.440	4.0	46007.620	4.0
5418.6737	10.00	-3.44	169797.190	3.0	171642.157	2.0
5418.7531	16.00	-3.56	79991.260	4.0	81836.200	3.0
5418.7531	16.00	-2.38	79991.260	4.0	81836.200	4.0
5418.7531	16.00	-1.52	79991.260	4.0	81836.200	5.0
5419.1055	14.00	-1.80	62519.660	2.0	64364.480	2.0
5419.6813	26.00	-4.19	49135.003	3.0	50979.627	4.0
5419.7430	26.00	-2.96	33412.706	3.0	35257.309	4.0
5421.2948	14.00	-.10	59118.030	3.0	60962.105	2.0
5421.8034	17.00	-2.53	97674.092	3.5	99517.994	4.5
5422.0446	6.00	-.65	86416.550	1.0	88260.370	2.0
5422.1034	28.01	-4.00	120203.490	2.5	122047.290	3.5
5422.1445	20.00	-3.75	42919.053	2.0	44762.839	3.0
5422.7887	20.00	-4.01	42919.053	2.0	44762.620	2.0
5423.0622	10.00	-.78	169839.450	1.0	171682.924	1.0
5423.3505	26.00	-3.26	45333.834	2.0	47177.210	1.0
5423.5447	23.00	-3.60	38003.930	1.5	39847.240	1.5
5423.8831	7.00	-4.84	112319.805	1.5	114163.000	1.5
5424.0744	28.01	-4.26	133903.000	1.5	135746.130	1.5
5424.1774	7.00	-.82	111060.905	.5	112904.000	.5
5424.8691	24.00	-4.86	42238.040	2.0	44080.900	2.0
5425.0751	10.00	-3.73	171009.340	1.0	172852.130	0.0
5425.1046	21.00	-1.75	17012.980	2.5	18855.760	1.5
5425.1104	10.00	-4.85	169797.190	3.0	171639.968	2.0
5425.6051	28.01	-3.74	132225.150	1.5	134067.760	1.5
5425.7229	6.00	-1.87	86491.410	1.0	88333.980	0.0
5426.1058	18.00	-2.45	122514.290	1.0	124356.730	2.0
5426.1852	17.00	-1.07	99681.887	1.5	101524.300	2.5
5426.4091	28.00	-2.59	47328.850	2.0	49171.187	1.0
5426.8863	11.00	.40	33200.675	.5	35042.850	1.5
5427.1072	29.01	-1.21	139142.100	2.0	140984.200	1.0
5427.3871	26.00	-3.26	45913.480	3.0	47755.485	3.0
5427.6671	24.00	-.03	44125.900	1.0	45967.810	2.0
5427.6906	10.00	-1.51	169839.450	1.0	171681.352	2.0
5428.1238	17.00	-1.29	95897.565	1.5	97739.320	1.5
5428.2270	18.01	-1.87	204977.590	2.5	206819.310	3.5
5428.2300	10.00	-.25	169843.820	2.0	171685.539	3.0
5428.9492	17.00	-2.32	95897.565	1.5	97739.040	.5
5428.9640	10.00	-2.42	169843.820	2.0	171685.290	2.0
5430.1435	22.00	-3.10	41903.480	5.0	43744.550	4.0
5430.5270	14.00	-1.65	60300.860	2.0	62141.800	1.0
5431.0727	14.00	-1.15	60962.105	2.0	62802.860	3.0
5431.6776	18.00	-1.54	122686.200	1.0	124526.750	0.0
5431.8547	14.01	.30	122655.510	3.5	124496.000	2.5
5432.1292	55.00	-.61	22631.830	0.0	24472.729	0.0
5432.2089	14.01	-1.00	122655.630	2.5	124496.000	2.5
5432.2089	14.01	.14	122655.630	2.5	124496.000	1.5
5432.3565	25.00	-3.73	45060.810	3.5	46901.130	2.5
5432.6635	55.00	.69	22631.830	0.0	24472.548	0.0
5432.7107	10.00	-2.50	171148.780	0.0	172988.980	1.0
5433.6851	15.00	-1.35	66343.330	.5	68183.200	1.5
5434.1725	11.00	.10	33200.675	.5	35040.380	.5
5434.5713	9.00	-1.37	128219.830	1.5	130059.400	.5
5434.5713	14.00	-4.84	61647.360	1.0	63486.930	1.0
5435.0735	18.01	-1.23	208803.240	4.5	210642.640	5.5
5435.0735	18.01	-3.05	208803.240	5.5	210642.640	5.5
5435.1917	18.01	-1.16	208803.240	5.5	210642.600	6.5
5435.9483	10.00	-2.44	169843.820	2.0	171682.924	1.0
5436.0931	14.00	-1.24	61647.875	2.0	63486.930	1.0
5436.2853	26.00	-4.42	54066.570	4.0	55905.560	4.0
5437.3497	24.00	-4.14	46985.870	5.0	48824.500	4.0
5437.4532	14.00	.20	57798.072	2.0	59636.667	1.0
5437.6513	12.00	-.93	57214.992	1.0	59053.520	0.0
5437.7489	22.00	-4.97	18287.560	4.0	20126.055	3.0
5438.6512	22.00	-2.17	39785.940	4.0	41624.130	4.0
5438.7991	29.01	-4.53	133826.200	2.0	135664.340	1.0
5439.2134	18.01	-.62	204417.230	1.5	206255.230	2.5
5440.5987	10.00	-.58	169843.820	2.0	171681.352	2.0
5440.7527	28.01	-3.02	128853.870	2.5	130691.350	1.5
5440.8415	14.00	-1.73	61936.130	1.0	63773.580	2.0
5441.2857	22.00	-3.17	43975.710	1.0	45813.010	2.0
5441.9877	14.00	-2.99	47351.554	2.0	49188.617	2.0
5442.6010	12.00	-2.03	57204.163	3.0	59041.019	2.0
5442.6957	18.00	-3.41	120250.150	3.0	122086.974	2.0
5442.9329	12.00	-.93	57204.275	3.0	59041.019	2.0
5442.9329	12.00	-2.58	57204.275	2.0	59041.019	2.0
5443.8635	15.00	-4.34	68088.270	1.5	69924.700	2.5
5445.4351	6.00	-2.85	87218.260	2.0	89054.160	2.0
5445.5834	27.00	-4.98	51267.930	4.5	53103.780	3.5
5445.9393	26.00	-3.78	47092.693	3.0	48928.423	2.0
5446.0283	6.00	-3.19	86362.520	1.0	88198.220	2.0
5446.0580	56.01	-.61	59800.310	0.0	61636.501	0.0
5446.4021	17.00	-1.74	95313.749	1.5	97149.323	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5447.5418	18.00	-4.01	124376.380	1.0	126211.570	1.0
5447.8090	13.01	-4.12	146414.500	3.0	148249.600	4.0
5447.8090	13.01	-2.56	146414.500	4.0	148249.600	4.0
5447.8090	13.01	-2.70	146414.500	4.0	148249.600	4.0
5447.8090	13.01	-1.03	146414.500	5.0	148249.600	4.0
5449.2046	26.02	-4.94	198821.390	6.0	200656.020	6.0
5449.2937	13.01	-2.69	146414.500	3.0	148249.100	3.0
5449.2937	13.01	-1.59	146414.500	4.0	148249.100	3.0
5449.2937	13.01	-.68	146414.500	4.0	148249.100	3.0
5450.4821	13.01	-1.27	146414.500	3.0	148248.700	2.0
5450.6307	28.01	-4.10	132120.700	.5	133954.850	.5
5450.7407	14.00	-1.12	57198.027	3.0	59032.140	2.0
5453.2768	14.00	-2.03	61960.260	0.0	63793.520	1.0
5453.8123	15.00	-2.10	66544.120	2.5	68377.200	3.5
5454.2884	24.00	-3.96	31280.350	5.0	33113.270	4.0
5454.3479	28.01	-3.39	115000.250	3.5	116833.150	4.5
5454.3717	26.00	-2.69	50186.814	2.0	52019.706	1.0
5454.9133	17.00	-2.48	98372.970	1.5	100205.680	1.5
5454.9133	17.00	-1.74	98372.970	1.5	100205.680	2.5
5455.6278	10.00	-3.51	169839.450	1.0	171671.920	1.0
5455.8064	26.00	-2.68	49502.530	5.0	51334.940	4.0
5456.2501	18.00	-1.97	122479.459	1.0	124311.720	1.0
5456.2828	17.00	-3.42	98373.430	2.5	100205.680	1.5
5456.2828	17.00	-2.87	98373.430	2.5	100205.680	2.5
5456.3722	9.02	-4.06	464939.500	2.5	466771.720	3.5
5456.4317	14.00	-3.38	62519.660	2.0	64351.860	1.0
5456.6700	23.00	-3.97	37764.890	5.5	39597.010	4.5
5457.2926	10.00	-1.10	169843.820	2.0	171675.731	3.0
5457.5339	21.00	-2.99	37039.770	2.5	38871.600	2.5
5458.2788	6.00	-.32	78731.270	1.0	80562.850	1.0
5458.6603	14.00	-.22	48102.323	2.0	49933.775	3.0
5459.6171	17.00	-1.60	99711.309	.5	101542.440	1.5
5459.8587	14.00	-4.45	62421.030	3.0	64252.080	2.0
5460.0376	6.00	-1.60	88135.810	3.0	89966.800	3.0
5460.3656	28.01	-3.68	116732.510	2.5	118563.390	3.5
5460.4551	6.00	-2.50	88135.810	3.0	89966.660	2.0
5460.6668	17.00	-1.12	97703.640	1.5	99534.419	.5
5460.7354	14.00	-.40	48020.074	1.0	49850.830	2.0
5460.7653	17.00	-1.67	98418.890	3.5	100249.636	2.5
5460.9622	24.00	-3.76	42238.040	2.0	44068.720	3.0
5461.3202	18.00	-3.07	124381.010	2.0	126211.570	1.0
5461.3917	17.00	-2.80	98419.100	2.5	100249.636	2.5
5461.7976	21.00	-2.69	17025.360	1.5	18855.760	1.5
5461.8871	28.01	-3.96	122821.630	5.5	124652.000	4.5
5461.9468	17.00	-2.55	100170.010	2.5	102000.360	1.5
5462.2452	10.00	-3.22	169814.630	2.0	171644.880	1.0
5462.3646	28.00	-1.92	47328.850	2.0	49159.060	2.0
5463.3000	3.00	.30	36470.000	0.0	38300.396	0.0
5463.6482	6.00	-1.83	86362.520	1.0	88192.300	1.0
5463.7975	10.00	-1.71	169839.450	1.0	171669.180	0.0
5463.8572	24.00	-4.18	33671.550	3.0	35501.260	3.0
5464.3350	14.00	-.03	60704.530	3.0	62534.080	4.0
5464.5979	18.00	-4.35	123653.238	4.0	125482.700	3.0
5464.7831	28.01	-4.61	135382.530	1.5	137211.930	.5
5464.7831	15.00	.20	75905.100	2.5	77734.500	2.5
5466.0978	6.00	-2.64	87341.040	0.0	89170.000	1.0
5466.5341	18.00	-.12	120207.320	5.0	122036.134	4.0
5466.6956	28.01	-3.41	99418.610	3.5	101247.370	2.5
5466.7255	23.00	-4.40	38106.320	2.5	39935.070	1.5
5467.1141	6.00	-.90	86369.600	2.0	88198.220	2.0
5467.8796	18.00	-1.77	120207.770	4.0	122036.134	4.0
5468.1518	20.00	.15	40690.435	0.0	42518.708	1.0
5468.2505	6.00	-1.56	86331.630	1.0	88159.870	0.0
5468.6693	10.00	-1.26	169843.820	2.0	171671.920	1.0
5469.0193	26.00	-3.13	31937.308	1.0	33765.291	2.0
5469.2676	28.01	-4.01	132225.150	1.5	134053.050	2.5
5469.4501	26.00	-3.23	45061.287	3.0	46889.126	4.0
5469.5159	10.00	-1.99	169814.630	2.0	171642.447	3.0
5469.7015	17.00	-4.64	98419.100	2.5	100246.855	1.5
5470.3839	10.00	-2.62	169814.630	2.0	171642.157	2.0
5470.4647	22.00	-1.55	41917.050	4.0	43744.550	4.0
5471.0934	28.01	-2.88	113172.960	4.5	115000.250	3.5
5471.3419	26.00	-4.09	45061.287	3.0	46888.494	2.0
5471.8121	28.01	-4.92	129297.910	3.5	131124.960	3.5
5471.8121	13.02	-.26	165786.320	2.5	167613.370	3.5
5472.3213	18.01	-4.05	208803.240	4.5	210630.120	3.5
5472.5909	24.00	-4.35	42254.110	3.0	44080.900	2.0
5472.8005	7.00	-3.89	112319.805	1.5	114146.525	2.5
5473.1002	28.01	-3.33	94067.140	1.5	95893.760	1.5
5473.4598	9.02	-4.62	442748.850	2.5	444575.350	2.5
5473.6396	18.00	-3.13	124376.380	1.0	126202.820	0.0
5473.6695	13.02	-1.56	165786.320	2.5	167612.750	2.5
5473.8793	28.01	-4.01	134053.050	2.5	135879.410	3.5
5474.8776	12.00	-1.14	57214.992	1.0	59041.019	2.0
5474.8986	18.01	-3.90	188766.150	2.5	190592.170	1.5
5475.5523	18.00	-1.63	119444.880	2.0	121270.682	2.0
5475.9481	22.00	-2.08	41757.470	3.0	43583.140	3.0
5476.9441	10.00	-3.86	169814.630	2.0	171639.968	2.0
5477.2382	13.02	-.42	165787.510	1.5	167612.750	2.5
5479.0092	17.00	-3.44	98372.970	1.5	100197.620	2.5
5479.1474	22.00	-4.95	36000.144	4.0	37824.748	4.0
5479.4897	14.00	.27	59032.140	2.0	60856.630	1.0
5480.3909	17.00	-2.28	98373.430	2.5	100197.620	2.5
5480.6913	26.00	-3.60	52067.450	2.0	53891.540	3.0
5480.7214	19.00	-1.37	32648.350	.5	34472.430	1.5
5481.4636	26.00	-4.44	46137.140	3.0	47960.973	4.0
5481.4727	19.00	-1.67	32648.350	.5	34472.180	.5
5481.5027	28.01	-3.91	133734.980	3.5	135558.800	4.5
5481.5629	12.02	-1.14	582747.300	2.0	584571.100	2.0
5481.5629	7.00	-.78	104654.000	.5	106477.800	.5
5481.8634	6.00	-2.03	87341.040	0.0	89164.740	1.0
5482.1760	17.00	-.79	95706.534	1.5	97530.130	2.5
5482.2061	20.00	-2.77	47006.194	2.0	48829.780	2.0
5482.2061	20.00	-1.86	47006.194	2.0	48829.780	1.0
5482.2061	20.00	-4.14	47006.194	2.0	48829.780	3.0
5482.4646	20.00	-1.86	47006.280	3.0	48829.780	2.0
5482.4646	20.00	-2.59	47006.280	3.0	48829.780	3.0
5482.8254	20.00	-1.53	47006.400	4.0	48829.780	3.0
5483.1622	14.00	-4.02	56978.256	1.0	58801.524	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5483.2765	18.01	-1.77	204996.090	3.5	206819.320	4.5
5483.3066	18.01	-3.31	204996.090	3.5	206819.310	3.5
5483.5171	28.01	-4.33	133922.910	4.5	135746.060	3.5
5483.7277	15.00	-1.33	66360.120	1.5	68183.200	1.5
5483.9683	30.02	-3.04	260623.100	4.0	262446.100	3.0
5484.8709	6.00	-1.18	86369.600	2.0	88192.300	1.0
5485.0515	28.01	-4.69	113177.610	3.5	115000.250	3.5
5485.9244	14.00	-1.90	62421.030	3.0	64243.380	2.0
5486.7975	25.00	-3.87	57705.830	.5	59527.890	1.5
5487.0083	21.00	-4.40	16096.860	1.5	17918.850	.5
5487.0986	17.00	-3.36	98383.720	3.5	100205.680	2.5
5487.2101	17.00	-1.02	100166.217	3.5	101988.140	2.5
5487.5805	15.00	.03	75833.400	2.5	77655.200	3.5
5487.9722	17.00	-.46	99354.670	1.5	101176.340	2.5
5487.9993	17.00	-2.57	99711.309	.5	101532.970	1.5
5488.4542	22.00	-4.00	39265.800	2.0	41087.310	3.0
5489.0870	13.01	.52	142958.900	1.0	144780.200	2.0
5490.4738	21.00	-4.30	32659.210	1.5	34480.050	2.5
5491.6047	10.00	.34	165828.175	2.0	167648.640	2.0
5492.3047	14.00	-1.36	60848.946	4.0	62669.179	4.0
5492.3499	14.00	-2.68	60848.946	4.0	62669.164	3.0
5492.6577	14.00	-.34	58801.524	1.0	60621.640	0.0
5493.1286	10.00	-2.70	171009.340	1.0	172829.300	1.0
5494.6381	27.00	-1.20	44555.710	1.5	46375.170	1.5
5494.8797	14.00	-2.58	62545.100	1.0	64364.480	2.0
5495.5442	28.01	-4.77	75917.630	3.5	77736.790	4.5
5495.6228	17.00	-.09	95534.923	.5	97354.057	1.5
5496.3993	14.00	-2.74	60848.946	4.0	62667.823	3.0
5496.7075	14.00	-1.92	57372.297	2.0	59191.072	2.0
5496.9040	23.00	-7.76	14910.040	3.5	16728.750	4.5
5496.9947	28.01	-3.85	129284.500	2.5	131103.180	2.5
5497.3573	10.00	-1.29	171009.340	1.0	172827.900	2.0
5498.1434	17.00	-2.02	100169.840	3.5	101988.140	2.5
5498.3884	7.00	-1.14	104996.240	1.5	106814.459	2.5
5498.5577	14.00	-2.21	57372.297	2.0	59190.460	1.0
5498.6576	17.00	-1.37	100170.010	2.5	101988.140	2.5
5499.1415	17.00	-1.57	98373.430	2.5	100191.400	3.5
5499.9583	30.02	-4.02	260418.100	2.0	262235.800	3.0
5500.9570	28.01	-3.58	129297.910	3.5	131115.280	4.5
5501.0448	7.00	.24	110035.720	.5	111853.061	1.5
5502.6526	29.01	-2.45	116326.160	3.0	118142.970	3.0
5502.8222	18.00	-2.48	115366.900	1.0	117183.654	2.0
5503.0766	28.01	-2.54	135461.550	2.5	137278.220	1.5
5503.1373	7.01	-1.31	209673.650	2.0	211490.300	2.0
5503.1675	22.00	-2.30	39640.980	3.0	41457.620	3.0
5503.2887	12.02	-2.29	582747.300	2.0	584563.900	3.0
5504.7735	10.00	-1.31	171009.340	1.0	172825.450	1.0
5506.4411	21.00	-3.61	32751.540	3.5	34567.100	3.5
5506.6838	21.00	-4.90	35671.000	1.5	37486.480	1.5
5507.4422	10.00	-1.69	171009.340	1.0	172824.570	0.0
5507.7152	17.00	-3.47	100185.220	1.5	102000.360	1.5
5508.3404	17.00	-1.10	100185.426	2.5	102000.360	1.5
5509.1417	28.01	-4.07	122837.330	4.5	124652.000	4.5
5509.2358	20.00	-2.17	47015.141	3.0	48829.780	2.0
5509.3209	9.00	-1.80	128122.719	1.5	129937.330	1.5
5509.3239	24.00	-4.60	42254.110	3.0	44068.720	3.0
5509.6275	6.00	-1.26	86519.470	1.0	88333.980	0.0
5510.4475	9.02	-.11	464223.930	1.5	466038.170	2.5
5510.4475	17.00	-4.13	98383.430	4.5	100197.670	3.5
5510.5811	14.00	-.30	60705.464	3.0	62519.660	2.0
5510.8728	15.01	-.59	127756.300	2.0	129570.400	1.0
5511.3041	14.00	-2.67	59034.988	3.0	60848.946	4.0
5511.3224	28.00	-2.05	47139.392	2.0	48953.344	1.0
5511.3284	17.00	-2.06	98383.720	3.5	100197.670	3.5
5512.0881	7.00	-1.10	104664.100	1.5	106477.800	.5
5512.6079	28.00	-2.01	50458.187	1.0	52271.716	2.0
5512.6961	13.01	-.48	146276.500	3.0	148090.000	2.0
5512.6961	13.01	-1.39	146276.500	3.0	148090.000	3.0
5512.8358	18.00	-3.61	121654.580	2.0	123468.034	1.0
5512.9392	22.00	-2.77	44079.840	2.0	45893.260	3.0
5514.7639	28.01	-2.00	120271.970	2.5	122084.790	1.5
5516.2031	18.00	-.17	119444.880	2.0	121257.227	1.0
5516.6506	15.00	-1.01	76021.600	1.5	77833.800	1.5
5517.5548	14.00	-1.08	59037.043	4.0	60848.946	4.0
5518.7488	18.00	-.76	123254.990	1.0	125066.501	2.0
5519.1297	10.00	-.48	165828.175	2.0	167639.561	1.0
5519.7574	6.00	-.58	86449.190	3.0	88260.370	2.0
5519.9098	14.00	-.34	58893.400	3.0	60704.530	3.0
5520.0866	26.00	-3.88	46720.824	4.0	48531.896	3.0
5520.1841	22.00	-3.96	43674.310	4.0	45485.350	5.0
5520.3670	25.00	-2.72	57305.620	3.5	59116.600	2.5
5520.4371	26.00	-4.41	46410.366	1.0	48221.323	1.0
5520.4615	28.00	-1.78	49313.851	3.0	51124.800	3.0
5520.5804	9.02	-1.09	464491.890	3.5	466302.800	3.5
5521.3731	15.01	-3.19	105550.450	2.0	107361.100	3.0
5521.7086	22.00	-2.42	39526.890	2.0	41337.430	2.0
5522.2881	9.00	-2.42	128338.720	.5	130149.070	.5
5522.5321	27.00	-1.83	43295.320	4.5	45105.590	3.5
5523.1423	9.02	-3.06	464491.890	3.5	466301.960	2.5
5524.3632	10.01	-4.08	322348.010	3.5	324157.680	2.5
5524.4212	17.00	-1.68	98693.220	2.5	100502.871	1.5
5524.5157	14.00	-1.22	60856.630	1.0	62666.250	1.0
5525.2943	7.00	-2.32	111060.905	.5	112870.270	.5
5526.1648	14.01	-1.16	124496.000	2.5	126305.080	2.5
5526.1648	14.01	.14	124496.000	2.5	126305.080	3.5
5526.1648	14.01	-.02	124496.000	1.5	126305.080	2.5
5526.8980	6.00	-1.58	86389.380	2.0	88198.220	2.0
5527.4786	6.00	-2.25	86327.160	3.0	88135.810	3.0
5527.4786	11.00	-1.07	38540.180	.5	40348.830	1.5
5527.7843	28.01	-4.95	133169.920	3.5	134978.470	2.5
5528.5180	6.00	-2.02	87341.040	0.0	89149.350	1.0
5529.4964	29.01	-4.03	117231.690	1.0	119039.680	2.0
5529.5576	17.00	-3.76	98383.430	4.5	100191.400	3.5
5529.5576	17.00	-4.39	98383.430	4.5	100191.400	4.5
5529.7717	15.00	-4.24	72493.800	1.5	74301.700	2.5
5529.7717	11.00	-.81	38540.930	1.5	40348.830	2.5
5529.7717	11.00	-1.77	38540.930	1.5	40348.830	1.5
5530.1694	21.00	-4.79	35745.570	2.5	37553.340	2.5
5530.2917	18.00	-4.35	122329.720	3.0	124137.450	2.0
5530.4447	17.00	-4.70	98383.720	3.5	100191.400	3.5
5530.4447	17.00	-1.31	98383.720	3.5	100191.400	4.5
5530.7812	18.00	-3.87	122329.720	3.0	124137.290	3.0
5530.8424	17.00	-2.44	98383.430	4.5	100190.980	4.5
5530.8730	17.00	-1.68	98383.430	4.5	100190.970	5.5
5531.7300	17.00	-2.18	98383.720	3.5	100190.980	4.5
5531.9136	28.01	-2.43	115956.710	2.5	117763.910	1.5
5532.7096	21.00	-3.69	16141.040	2.5	17947.980	1.5
5533.2302	18.00	-1.42	119847.810	1.0	121654.580	2.0
5533.2608	14.00	-3.61	62545.100	1.0	64351.860	1.0
5533.4445	27.00	-3.40	44568.470	2.5	46375.170	1.5
5534.4370	17.00	-2.27	95897.565	1.5	97703.941	2.5
5534.5780	15.00	-1.64	68088.270	1.5	69894.600	1.5
5534.5964	18.00	-2.36	120229.810	3.0	122036.134	4.0
5534.9457	28.01	-4.22	134783.140	2.5	136589.350	3.5
5535.3594	17.00	-3.09	95897.565	1.5	97703.640	1.5
5535.4974	18.01	-3.97	208803.240	5.5	210609.270	4.5
5535.5279	18.00	-2.83	122329.720	3.0	124135.740	3.0
5535.5279	18.00	-3.04	122329.720	3.0	124135.740	4.0
5535.7763	7.00	-.78	105008.520	2.5	106814.459	2.5
5536.7236	22.00	-3.95	34535.040	2.0	36340.670	2.0
5537.3369	10.00	-2.68	169839.450	1.0	171644.880	1.0
5537.4290	29.01	-3.19	137077.600	3.0	138883.000	4.0
5537.5210	10.00	-4.98	171803.100	2.0	173608.470	2.0
5537.5210	10.00	-4.98	171803.100	2.0	173608.470	2.0
5537.5394	17.00	-.12	97712.630	5.5	99517.994	4.5
5537.6253	14.00	-.08	57468.239	2.0	59273.575	1.0
5537.6314	17.00	-1.84	97712.660	4.5	99517.994	4.5
5538.0118	18.01	-2.53	170530.310	3.5	172335.520	2.5
5538.5026	6.00	-4.66	83820.130	1.0	85625.180	0.0
5538.7820	14.00	-.98	60645.441	2.0	62450.400	1.0
5538.9384	18.00	-2.01	123261.593	2.0	125066.501	2.0
5539.3312	28.01	-4.52	134249.720	1.5	136054.500	1.5
5540.3443	18.01	-2.34	208803.240	4.5	210607.690	4.5
5540.3443	18.01	-4.07	208803.240	5.5	210607.690	4.5
5540.4978	28.01	-3.06	122847.600	3.5	124652.000	4.5
5540.7742	18.01	-4.07	208803.240	4.5	210607.550	5.5
5540.7742	18.01	-2.25	208803.240	5.5	210607.550	5.5
5540.9277	25.00	-2.18	57485.970	2.5	59290.230	3.5
5541.3884	22.00	-4.67	40302.950	3.0	42107.060	4.0
5541.7877	16.00	-.93	78690.680	2.0	80494.660	2.0
5541.7877	16.00	-.02	78690.680	2.0	80494.660	3.0
5542.9246	24.00	-2.97	48824.500	4.0	50628.110	3.0
5543.2013	16.00	-2.47	78691.140	3.0	80494.660	2.0
5543.2013	16.00	-.93	78691.140	3.0	80494.660	3.0
5543.2013	16.00	.14	78691.140	3.0	80494.660	4.0
5544.5539	28.01	-4.99	119889.470	5.5	121692.550	4.5
5545.0152	9.00	-1.79	128338.720	.5	130141.650	1.5
5545.0459	6.00	-1.21	86389.380	2.0	88192.300	1.0
5545.0459	17.00	-2.32	100185.220	1.5	101988.140	2.5
5545.5073	16.00	-.19	78691.890	1.0	80494.660	2.0
5545.6796	17.00	-2.05	100185.426	2.5	101988.140	2.5
5545.7012	10.00	-3.62	169839.450	1.0	171642.157	2.0
5545.8149	20.00	-1.75	21849.634	2.0	23652.304	1.0
5545.8149	20.00	-1.03	21849.634	2.0	23652.304	1.0
5546.2149	28.01	-4.03	113407.310	2.5	115209.850	3.5
5547.0458	14.00	-1.44	61423.230	3.0	63225.500	2.0
5547.1874	26.00	-3.48	45333.834	2.0	47136.058	2.0
5548.3511	28.00	-1.55	49032.589	2.0	50834.435	2.0
5548.4928	14.00	-4.47	62596.320	2.0	64398.120	2.0
5548.5698	7.00	.55	110103.834	1.5	111905.609	2.5
5548.5852	18.01	-1.65	212071.800	3.5	213873.570	3.5
5548.7699	28.01	-4.26	134964.780	1.5	136766.490	2.5
5548.8623	14.00	-1.88	62450.400	1.0	64252.080	2.0
5549.6201	28.00	-1.54	48735.308	2.0	50536.742	1.0
5550.7725	10.00	-3.47	169843.820	2.0	171644.880	1.0
5552.1905	29.01	-2.91	146215.700	1.0	148016.300	1.0
5552.3139	23.00	-3.23	35225.040	2.5	37025.600	3.5
5552.4434	10.00	-2.48	169839.450	1.0	171639.968	2.0
5552.7457	6.00	-.79	86397.800	3.0	88198.220	2.0
5553.6648	14.00	-.55	59056.508	1.0	60856.630	1.0
5553.8253	27.00	-2.44	46746.000	2.5	48546.070	1.5
5554.5350	24.00	-3.82	42292.960	1.0	44092.800	0.0
5554.6276	28.01	-2.22	134254.690	1.5	136054.500	1.5
5555.1214	18.01	-4.96	201351.550	2.5	203151.200	2.5
5555.5227	20.01	-.68	72722.230	1.5	74521.750	1.5
5555.7388	28.00	-1.23	49032.589	2.0	50832.039	3.0
5555.8623	10.01	-3.25	301801.090	3.5	303600.500	2.5
5556.3688	26.00	-2.77	49804.900	3.0	51604.146	3.0
5557.0977	9.02	.28	464491.890	3.5	466290.900	4.5
5557.6228	10.01	-1.81	301801.090	3.5	303599.930	3.5
5558.2809	10.00	-4.04	169843.820	2.0	171642.447	3.0
5559.0320	18.00	-2.01	114861.670	0.0	116660.054	1.0
5559.1773	10.00	-2.46	169843.820	2.0	171642.157	2.0
5560.1883	17.00	-2.10	98372.970	1.5	100170.980	1.5
5560.1883	17.00	-2.53	100202.350	.5	102000.360	1.5
5560.2193	15.00	-.65	76045.900	2.5	77843.900	2.5
5560.9925	17.00	-1.51	100202.610	1.5	102000.360	1.5
5561.6112	17.00	-2.90	98373.430	2.5	100170.980	1.5
5561.9206	10.00	-1.31	171032.790	3.0	172830.240	3.0
5561.9825	18.00	-3.77	122514.290	1.0	124311.720	1.0
5562.0444	10.00	-2.61	171032.790	3.0	172830.200	2.0
5562.0754	15.00	-2.39	76045.900	2.5	77843.300	1.5
5562.2301	6.00	-1.36	86362.520	1.0	88159.870	0.0
5562.9420	28.01	-2.86	120250.170	3.5	122047.290	3.5
5563.4528	28.00	-3.81	49327.845	2.0	51124.800	3.0
5563.4992	28.01	-3.78	121050.660	2.5	122847.600	3.5
5563.6571	7.00	-2.01	105017.570	3.5	106814.459	2.5
5563.7778	9.00	-2.42	128140.480	2.5	129937.330	1.5
5563.9327	13.01	-.95	144780.200	2.0	146577.000	1.0
5564.0256	10.00	-3.91	171060.220	2.0	172856.990	1.0
5564.0566	24.00	-3.20	42254.110	3.0	44050.870	4.0
5564.3353	18.01	-.22	212076.900	2.5	213873.570	3.5
5564.8928	23.00	-4.96	38242.460	3.5	40038.950	4.5
5565.2955	28.01	-5.00	134053.050	2.5	135849.410	2.5
5565.5744	9.00	-2.31	128219.830	1.5	130016.100	2.5
5566.0887	26.00	-2.56	53328.870	4.0	55124.974	3.0
5566.2096	17.00	-3.67	84121.872	1.5	85917.937	.5
5566.5350	24.00	-3.52	42292.960	1.0	44088.920	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5567.2170	9.00	.13	128220.360	3.5	130016.100	2.5
5568.3364	17.00	-1.40	97739.040	.5	99534.419	.5
5569.1709	10.00	-2.25	171032.790	3.0	172827.900	2.0
5569.2050	17.00	-4.15	97739.320	1.5	99534.419	.5
5569.7914	12.01	-1.23	115844.600	3.5	117639.510	3.5
5569.7914	12.01	.31	115844.600	3.5	117639.510	4.5
5569.7914	12.01	.20	115844.600	2.5	117639.510	3.5
5569.8224	9.02	-1.38	467769.110	.5	469564.010	.5
5571.2813	10.00	-2.09	171032.790	3.0	172827.220	3.0
5571.5296	10.00	-.66	171032.790	3.0	172827.140	4.0
5571.7719	28.00	-4.62	48671.900	3.0	50466.172	4.0
5571.8402	25.00	-2.40	57621.900	1.5	59416.150	1.5
5571.9023	10.00	-4.40	171057.900	1.0	172852.130	0.0
5572.0576	6.00	.01	79310.850	2.0	81105.030	1.0
5572.5856	27.00	-4.12	42988.120	3.5	44782.130	4.5
5572.6259	7.00	-1.35	104984.340	.5	106778.337	1.5
5573.2380	29.01	-2.35	136799.300	2.0	138593.100	1.0
5573.3529	14.00	-1.15	61562.477	3.0	63356.240	2.0
5573.7973	28.01	-3.14	116838.330	1.5	118631.950	.5
5574.0149	15.01	-3.34	103756.900	1.0	105550.450	2.0
5574.1080	24.00	-3.58	42275.200	4.0	44068.720	3.0
5574.4499	20.01	.91	84933.650	1.5	86727.060	2.5
5575.4852	14.00	-2.45	61304.283	2.0	63097.360	1.0
5575.7869	14.00	-1.38	62450.400	1.0	64243.380	2.0
5576.9284	20.00	-1.38	44955.670	0.0	46748.283	1.0
5577.3111	10.00	-4.25	170689.370	0.0	172481.860	1.0
5577.3732	9.02	-1.67	467769.110	.5	469561.580	1.5
5577.7000	26.00	-3.72	47136.058	2.0	48928.423	2.0
5578.3474	28.00	-3.85	49332.643	4.0	51124.800	3.0
5578.8205	26.00	-4.19	49558.500	4.0	51350.505	4.0
5579.3654	28.01	-2.38	115870.280	2.5	117662.110	1.5
5580.7700	26.00	-4.10	50045.900	2.0	51837.279	3.0
5581.0785	28.01	-4.89	129284.500	2.5	131075.780	1.5
5581.0785	28.01	-3.85	133954.850	.5	135746.130	1.5
5581.2343	12.01	-2.71	115848.280	4.5	117639.510	4.5
5581.2343	12.01	-.98	115848.280	5.5	117639.510	4.5
5581.2343	12.01	-1.07	115848.280	4.5	117639.510	3.5
5582.5120	20.01	.27	72730.930	2.5	74521.750	1.5
5583.0421	20.01	1.07	84936.410	2.5	86727.060	3.5
5583.0421	20.01	-.23	84936.410	2.5	86727.060	2.5
5583.1107	20.00	-.90	44957.655	1.0	46748.283	1.0
5583.3819	26.00	-4.20	45964.944	2.0	47755.485	3.0
5583.4849	14.00	-.06	48264.292	3.0	50054.800	4.0
5584.5703	19.00	-.63	32598.300	2.5	34388.460	1.5
5584.9759	19.00	-1.58	32598.430	1.5	34388.460	1.5
5585.9120	19.00	-.88	32598.430	1.5	34388.160	.5
5586.7860	21.00	-1.84	16210.800	3.5	18000.250	2.5
5588.2226	9.02	-4.25	466038.170	2.5	467827.160	1.5
5589.2411	26.00	-4.37	52019.706	1.0	53808.370	1.0
5589.4410	18.01	-.11	212071.800	3.5	213860.400	4.5
5589.6098	22.00	-4.79	37852.434	4.0	39640.980	3.0
5590.4225	12.00	-2.42	59318.764	3.0	61107.050	2.0
5590.4225	12.00	-1.09	59318.764	3.0	61107.050	3.0
5590.4225	12.00	-1.28	59318.764	3.0	61107.050	3.0
5590.4225	12.00	.19	59318.764	3.0	61107.050	4.0
5590.4569	12.00	-1.05	59318.775	2.0	61107.050	2.0
5590.4569	12.00	-.30	59318.775	2.0	61107.050	3.0
5590.4569	12.00	-.65	59318.775	2.0	61107.050	3.0
5590.5132	12.00	-.14	59318.793	1.0	61107.050	2.0
5591.5043	24.00	-3.80	42292.960	1.0	44080.900	2.0
5593.4127	10.00	-2.00	171822.200	1.0	173609.530	1.0
5594.6929	26.00	-4.93	46744.975	3.0	48531.896	3.0
5594.7775	12.00	-1.12	58476.689	0.0	60263.583	1.0
5595.1031	17.00	-3.54	98418.890	3.5	100205.680	2.5
5595.4350	22.00	-3.55	36065.750	3.0	37852.434	4.0
5595.7607	17.00	-4.30	98419.100	2.5	100205.680	2.5
5595.8140	12.00	-1.24	58477.020	1.0	60263.583	1.0
5595.8140	12.00	-.94	58477.020	1.0	60263.583	2.0
5595.8547	10.00	-3.59	171043.690	2.0	172830.240	3.0
5595.9299	20.00	-.69	44961.757	2.0	46748.283	1.0
5595.9801	10.00	-1.41	171043.690	2.0	172830.200	2.0
5596.3559	28.01	-4.91	111120.540	1.5	112906.930	1.5
5596.4499	28.01	-3.14	131928.770	4.5	133715.130	4.5
5596.5752	10.00	-.97	171822.200	1.0	173608.520	2.0
5596.5752	14.00	-3.47	62231.990	2.0	64018.310	1.0
5596.7319	10.00	-2.70	171822.200	1.0	173608.470	2.0
5596.7945	6.00	-.33	79318.780	1.0	81105.030	1.0
5597.6281	18.00	-2.63	120250.150	3.0	122036.134	4.0
5597.6281	18.00	-1.08	120250.150	4.0	122036.134	4.0
5598.1328	12.00	-2.42	58477.760	2.0	60263.583	1.0
5598.1328	12.00	-1.42	58477.760	2.0	60263.583	2.0
5598.1328	12.00	-.50	58477.760	2.0	60263.583	3.0
5598.8006	10.00	-2.35	171043.690	2.0	172829.300	1.0
5599.0514	17.00	-2.41	100202.610	1.5	101988.140	2.5
5599.3023	21.00	-4.45	32637.400	.5	34422.850	1.5
5599.8041	21.00	-2.83	37086.310	1.5	38871.600	2.5
5600.4722	8.00	-.95	105788.443	1.0	107573.520	0.0
5600.4848	8.00	-.60	105788.443	1.0	107573.516	1.0
5600.5130	8.00	-.70	105788.443	1.0	107573.507	2.0
5600.8394	28.01	-2.58	135493.260	1.5	137278.220	1.5
5600.9994	8.00	-1.07	105788.607	2.0	107573.516	1.0
5601.0277	8.00	-.48	105788.607	2.0	107573.507	2.0
5601.0622	8.00	-.28	105788.607	2.0	107573.496	3.0
5601.3415	13.01	-2.58	146432.800	4.0	148217.600	4.0
5601.3415	13.01	-2.72	146432.800	4.0	148217.600	4.0
5601.3415	13.01	-.96	146432.800	5.0	148217.600	4.0
5601.3415	13.01	-4.05	146432.800	5.0	148217.600	4.0
5601.3415	13.01	-.95	146432.800	5.0	148217.600	4.0
5601.3415	13.01	-4.34	146432.800	4.0	148217.600	5.0
5601.3415	13.01	-2.60	146432.800	5.0	148217.600	5.0
5601.3415	13.01	-2.70	146432.800	5.0	148217.600	5.0
5601.3415	13.01	-.87	146432.800	6.0	148217.600	5.0
5601.3415	13.01	-1.06	146432.800	4.0	148217.600	3.0
5601.8468	8.00	-1.42	105788.868	3.0	107573.507	2.0
5601.8814	8.00	-.58	105788.868	3.0	107573.496	3.0
5601.9065	8.00	.01	105788.868	3.0	107573.488	4.0
5602.3239	18.00	-2.59	115366.900	1.0	117151.387	1.0
5603.1937	10.00	-3.19	171043.690	2.0	172827.900	2.0
5603.7653	14.00	-1.95	57017.496	2.0	58801.524	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5604.5287	14.00	-1.04	59032.140	2.0	60815.925	2.0
5605.2797	17.00	.62	95400.731	2.5	97184.277	3.5
5605.3300	10.00	-.81	171043.690	2.0	172827.220	3.0
5605.4620	7.00	-1.45	111143.567	.5	112927.055	1.5
5605.5186	28.01	-4.31	117872.780	2.5	119656.250	3.5
5606.3359	21.00	-3.91	32696.840	2.5	34480.050	2.5
5607.0591	24.00	-3.72	46878.610	3.0	48661.590	3.0
5607.1314	22.00	-4.31	37743.933	3.0	39526.890	2.0
5607.2478	9.02	-4.05	464939.500	2.5	466722.420	2.5
5607.6787	22.00	-4.49	17540.205	3.0	19322.988	2.0
5609.1984	28.01	-4.10	132120.700	.5	133903.000	1.5
5609.5446	22.00	-3.09	44375.570	5.0	46157.760	5.0
5609.8373	7.00	-1.18	104996.240	1.5	106778.337	1.5
5610.5520	6.00	-.88	79323.160	0.0	81105.030	1.0
5610.8984	10.00	-2.86	171043.690	2.0	172825.450	1.0
5611.0558	28.01	-2.91	134249.720	1.5	136031.430	2.5
5611.1818	6.00	-2.44	86416.550	1.0	88198.220	2.0
5611.2448	28.01	-3.19	134067.760	1.5	135849.410	2.5
5612.5678	10.00	-2.70	171828.300	2.0	173609.530	1.0
5612.6624	19.02	-3.91	241667.000	.5	243448.200	1.5
5612.8830	18.01	-2.38	201720.670	1.5	203501.800	2.5
5613.1981	24.00	-4.35	53037.520	2.0	54818.550	2.0
5613.6394	24.00	.17	44186.920	2.0	45967.810	2.0
5614.3928	7.00	-1.32	111165.158	1.5	112945.809	2.5
5615.0583	6.00	-.34	82251.710	0.0	84032.150	1.0
5615.6891	10.00	-.77	171828.300	2.0	173608.540	3.0
5615.7522	10.00	-1.92	171828.300	2.0	173608.520	2.0
5615.7522	9.02	-1.10	442147.190	2.5	443927.410	3.5
5615.9098	10.00	-1.75	171828.300	2.0	173608.470	2.0
5618.1822	23.00	-6.29	14949.300	4.5	16728.750	4.5
5619.0758	20.00	-3.29	46479.813	1.0	48258.980	2.0
5619.2874	24.00	-3.81	46783.060	4.0	48562.160	4.0
5619.4454	28.01	-3.34	131834.940	2.5	133613.990	1.5
5620.1404	10.00	-1.70	171830.700	1.0	173609.530	1.0
5620.2983	17.00	-2.99	98418.890	3.5	100197.670	3.5
5620.4563	17.00	-3.42	98418.890	3.5	100197.620	2.5
5620.7628	18.00	-.44	121011.979	1.0	122790.612	0.0
5620.9303	28.01	-1.02	134252.850	3.5	136031.430	2.5
5620.9620	17.00	-3.58	98419.100	2.5	100197.670	3.5
5621.1516	9.02	-2.51	442278.930	2.5	444057.440	1.5
5621.2464	28.01	-2.70	120268.810	3.5	122047.290	3.5
5621.4771	26.00	-4.55	51969.140	3.0	53747.547	3.0
5621.5309	6.00	-3.90	86317.640	2.0	88096.030	2.0
5622.0588	14.00	-1.85	61562.477	3.0	63340.700	3.0
5622.4161	23.00	-3.70	38106.320	2.5	39884.430	1.5
5623.1118	14.00	-1.58	62534.080	4.0	64311.970	4.0
5623.4914	10.00	-1.00	171830.700	1.0	173608.470	2.0
5623.8394	28.01	-4.57	133735.260	2.5	135512.920	2.5
5623.9027	14.00	-1.11	61447.860	2.0	63225.500	2.0
5623.9342	9.00	-.23	128712.300	1.5	130489.930	.5
5624.0608	14.00	-2.46	62545.100	1.0	64322.690	0.0
5625.5641	7.00	-.67	111060.905	.5	112838.020	1.5
5625.8965	24.01	-4.07	51789.210	3.5	53566.220	3.5
5626.5297	14.00	-.22	62534.080	4.0	64310.890	5.0
5626.5297	14.00	-.19	62534.080	4.0	64310.890	5.0
5626.5614	15.01	-4.55	127889.300	3.0	129666.100	2.0
5626.6722	17.00	-.81	95897.565	1.5	97674.330	2.5
5626.7261	14.00	-1.15	61563.952	4.0	63340.700	3.0
5626.7514	28.01	-1.29	134254.690	1.5	136031.430	2.5
5627.4038	17.00	-2.29	99765.906	2.5	101542.440	1.5
5627.7016	26.00	-1.55	49558.500	4.0	51334.940	4.0
5627.9868	28.01	-3.17	103663.500	1.5	105439.850	1.5
5628.3796	18.00	-.33	122282.134	2.0	124058.360	3.0
5629.8883	6.00	-3.20	86416.550	1.0	88192.300	1.0
5630.1420	24.00	-2.85	42275.200	4.0	44050.870	4.0
5630.3640	14.00	-2.32	62519.660	2.0	64295.260	3.0
5630.3989	14.00	-3.05	60645.441	2.0	62421.030	3.0
5630.5605	14.00	.02	60381.278	1.0	62156.816	2.0
5630.8651	20.00	-1.41	46260.770	2.0	48036.212	3.0
5631.0617	28.01	-2.57	134256.050	2.5	136031.430	2.5
5631.0934	29.01	-2.83	133984.600	3.0	135759.970	2.0
5631.2457	14.00	-.40	51612.012	0.0	53387.334	1.0
5631.2520	28.01	-3.39	120271.970	2.5	122047.290	3.5
5631.6643	17.00	-1.66	100170.010	2.5	101945.200	1.5
5632.0134	28.01	-4.49	114052.040	3.5	115827.120	3.5
5632.0356	28.00	-3.31	42790.027	2.0	44565.100	3.0
5632.7432	20.00	-1.61	46258.380	1.0	48033.230	2.0
5633.0288	28.01	-2.61	120272.530	4.5	122047.290	3.5
5634.2002	7.00	-1.47	104984.340	.5	106758.731	.5
5634.2669	6.00	-.99	86317.640	2.0	88092.010	1.0
5634.2670	22.00	-4.90	41457.620	3.0	43231.990	4.0
5634.2987	6.00	-1.48	88192.300	1.0	89966.660	2.0
5635.5374	22.00	-2.68	44233.650	3.0	46007.620	4.0
5637.3742	17.00	-3.66	98373.430	2.5	100146.822	3.5
5637.7207	10.00	-2.01	171324.017	1.0	173097.300	0.0
5637.9846	20.00	-2.05	46258.380	1.0	48031.580	1.0
5637.9846	13.01	-2.31	144524.300	1.0	146297.500	1.0
5638.3661	6.00	-2.23	88198.220	2.0	89971.300	3.0
5640.1793	17.00	-2.10	98418.890	3.5	100191.400	3.5
5640.1793	17.00	-2.18	98418.890	3.5	100191.400	4.5
5640.3385	20.00	-2.09	46260.770	2.0	48033.230	2.0
5640.8476	10.00	-1.12	171057.900	1.0	172830.200	2.0
5641.2932	18.00	-3.12	124439.410	0.0	126211.570	1.0
5641.5161	17.00	-1.51	98418.890	3.5	100190.980	4.5
5641.8026	29.01	-2.09	146215.700	1.0	147987.700	2.0
5641.9108	18.00	-3.55	122282.134	2.0	124054.100	3.0
5642.8535	10.00	-.73	170689.370	0.0	172461.040	1.0
5643.2039	29.01	-3.14	116371.410	4.0	118142.970	3.0
5643.7136	10.00	-1.47	171057.900	1.0	172829.300	1.0
5645.5939	20.00	-3.22	46260.770	2.0	48031.580	1.0
5647.3799	10.00	-2.06	170557.050	1.0	172327.300	0.0
5647.9542	6.00	-1.62	86321.940	0.0	88092.010	1.0
5648.1138	10.00	-.92	171060.220	2.0	172830.240	3.0
5648.1775	10.00	-2.20	171057.900	1.0	172827.900	2.0
5648.2414	10.00	-2.51	171060.220	2.0	172830.200	2.0
5648.6562	14.00	-2.74	62534.080	4.0	64303.930	3.0
5648.7616	7.00	-1.79	105008.520	2.5	106778.337	1.5
5649.7224	18.00	-1.07	122282.134	2.0	124051.650	2.0
5650.2206	28.01	-2.42	134262.070	3.5	136031.430	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5650.2525	18.01	-.68	190942.650	.5	192712.000	1.5
5650.3930	18.00	-1.72	122282.134	2.0	124051.440	3.0
5650.7635	24.00	-4.61	47055.310	5.0	48824.500	4.0
5651.1148	10.00	-2.81	171060.220	2.0	172829.300	1.0
5651.7858	6.00	-.82	86327.160	3.0	88096.030	2.0
5652.1053	28.01	-4.83	120316.020	.5	122084.790	1.5
5652.1053	9.00	-2.68	128606.090	2.5	130374.860	1.5
5652.6486	29.01	-2.30	137212.700	1.0	138981.300	2.0
5652.7125	6.00	-1.15	88198.220	2.0	89966.800	3.0
5653.1600	6.00	-1.70	88198.220	2.0	89966.660	2.0
5654.0552	14.00	-2.71	62596.320	2.0	64364.480	2.0
5654.5669	29.01	-3.13	148482.000	3.0	150250.000	2.0
5654.6948	28.01	-4.21	134964.780	1.5	136732.740	1.5
5654.7907	19.00	-1.17	30185.240	2.5	31953.170	2.5
5654.7907	19.00	.13	30185.240	2.5	31953.170	3.5
5655.5905	10.00	-1.24	171060.220	2.0	172827.900	2.0
5655.6225	14.00	-1.94	62318.700	0.0	64086.370	1.0
5656.0065	10.00	-4.88	171057.900	1.0	172825.450	1.0
5656.1985	28.01	-4.98	133903.000	1.5	135670.490	.5
5656.3905	19.00	-.02	30185.740	1.5	31953.170	2.5
5657.2867	27.00	-2.00	45105.590	3.5	46872.740	3.5
5657.4340	17.00	-1.26	99765.906	2.5	101533.010	2.5
5657.7670	10.00	-2.26	171060.220	2.0	172827.220	3.0
5658.0232	28.01	-3.16	97273.830	2.5	99040.750	1.5
5658.5035	14.00	-2.18	62421.030	3.0	64187.800	3.0
5658.8238	10.00	-2.40	171057.900	1.0	172824.570	0.0
5659.8811	6.00	-.64	86369.470	4.0	88135.810	3.0
5660.2976	6.00	-1.01	86369.600	2.0	88135.810	3.0
5660.3938	28.01	-2.75	120281.110	4.5	122047.290	3.5
5662.5450	7.00	0.00	111143.567	.5	112909.076	1.5
5663.2155	28.01	-4.27	135512.920	2.5	137278.220	1.5
5663.3438	26.00	-1.64	49804.900	3.0	51570.160	3.0
5663.4401	10.00	-1.90	171060.220	2.0	172825.450	1.0
5663.9663	26.00	-4.50	42911.897	5.0	44676.963	4.0
5665.6868	15.00	-2.40	68088.270	1.5	69852.800	.5
5665.9758	22.00	-4.41	41818.700	4.0	43583.140	3.0
5666.1043	6.00	-1.30	86331.630	1.0	88096.030	2.0
5666.4896	14.00	-2.21	62226.390	1.0	63990.670	2.0
5666.8750	23.00	-3.93	35225.040	2.5	36989.200	2.5
5668.5459	21.00	-4.25	32659.210	1.5	34422.850	1.5
5668.5781	14.00	-1.15	62534.080	4.0	64297.710	4.0
5669.3431	17.00	-.70	98383.430	4.5	100146.822	3.5
5669.6711	14.00	-2.48	62534.080	4.0	64297.370	3.0
5670.1855	9.02	-.97	442294.310	1.5	444057.440	1.5
5670.2756	17.00	-1.69	98383.720	3.5	100146.822	3.5
5670.4171	10.00	.02	165828.175	2.0	167591.233	2.0
5670.7967	9.00	-1.79	128611.920	1.5	130374.860	1.5
5670.9672	26.00	-4.59	45509.112	1.0	47271.999	1.0
5671.6010	20.01	.01	72722.230	1.5	74484.920	.5
5672.0514	25.00	-4.13	57621.900	1.5	59384.450	1.5
5672.2413	7.00	-1.75	104996.240	1.5	106758.731	.5
5672.4634	17.00	.73	94732.300	3.5	96494.722	4.5
5672.8883	18.01	-2.39	202155.860	2.5	203918.150	1.5
5673.4677	9.02	-1.55	442294.310	1.5	444056.420	.5
5674.1537	7.00	-.61	111165.158	1.5	112927.055	1.5
5678.2466	14.00	-.52	57295.881	0.0	59056.508	1.0
5678.4949	28.01	-4.64	134964.780	1.5	136725.330	.5
5678.8724	7.00	-.76	111143.567	.5	112904.000	.5
5679.0433	6.00	-3.30	86331.630	1.0	88092.010	1.0
5679.3659	6.00	-3.08	87762.120	3.0	89522.400	2.0
5679.6886	6.00	-4.02	87762.220	2.0	89522.400	2.0
5680.3340	17.00	-3.19	100185.220	1.5	101945.200	.5
5680.3340	17.00	-2.00	100185.220	1.5	101945.200	1.5
5680.4309	22.00	-2.91	41823.190	3.0	43583.140	3.0
5680.9990	17.00	-3.57	100185.426	2.5	101945.200	1.5
5681.3347	28.01	-4.47	97799.660	1.5	99559.330	2.5
5681.8514	28.01	-2.58	134294.990	2.5	136054.500	1.5
5682.1517	14.00	-4.99	59056.508	1.0	60815.925	2.0
5682.2389	18.01	-4.54	210438.500	4.5	212197.890	4.5
5682.7040	18.00	-2.70	122282.134	2.0	124041.380	2.0
5682.9819	6.00	-3.22	87763.240	3.0	89522.400	2.0
5683.2855	18.00	-2.37	122282.134	2.0	124041.200	1.0
5683.9544	26.00	-3.39	45333.834	2.0	47092.693	3.0
5684.0287	14.00	-1.75	61597.404	3.0	63356.240	2.0
5684.5231	10.00	-2.34	170532.717	2.0	172291.400	1.0
5684.5231	10.00	-1.45	170532.717	2.0	172291.400	2.0
5684.5328	14.00	-1.87	62231.990	2.0	63990.670	2.0
5684.9531	26.00	-4.80	52049.820	2.0	53808.370	1.0
5685.4575	17.00	-3.72	99765.906	2.5	101524.300	2.5
5685.8455	17.00	-1.81	99765.906	2.5	101524.180	3.5
5686.4244	14.00	-2.21	61598.145	2.0	63356.240	2.0
5687.2493	27.00	-4.74	45766.630	3.5	47524.470	4.5
5687.2817	20.00	-.77	42518.708	1.0	44276.538	0.0
5688.5761	23.00	-3.91	38242.460	3.5	39999.890	2.5
5689.0293	27.00	-4.12	50945.470	.5	52702.760	1.5
5689.4826	27.00	-4.45	53103.780	3.5	54860.930	4.5
5689.6639	26.00	-3.97	47377.909	4.0	49135.003	3.0
5689.9359	6.00	-3.27	87762.120	3.0	89519.130	3.0
5690.2598	6.00	-4.77	87762.220	2.0	89519.130	3.0
5691.5685	20.00	-2.55	47006.194	2.0	48762.700	2.0
5691.5685	20.00	-1.64	47006.194	2.0	48762.700	1.0
5691.5685	20.00	-3.92	47006.194	2.0	48762.700	3.0
5691.7047	17.00	-3.16	95597.593	.5	97354.057	1.5
5691.8472	20.00	-1.64	47006.280	3.0	48762.700	2.0
5691.8472	20.00	-2.38	47006.280	3.0	48762.700	3.0
5692.2361	20.00	-1.31	47006.400	4.0	48762.700	3.0
5692.6899	22.00	-2.68	41988.390	3.0	43744.550	4.0
5693.1113	6.00	-2.40	87763.100	4.0	89519.130	3.0
5693.5653	6.00	-4.92	87763.240	3.0	89519.130	3.0
5693.6819	17.00	-.82	99765.906	2.5	101521.760	3.5
5693.7598	25.00	-2.22	47659.520	2.5	49415.350	2.5
5694.7004	14.00	-1.63	62596.320	2.0	64351.860	1.0
5694.7329	14.00	-2.64	62596.320	2.0	64351.850	3.0
5695.5504	18.00	-.97	117151.387	1.0	118906.665	2.0
5696.5500	29.01	-3.21	116388.000	2.0	118142.970	3.0
5697.2317	12.00	-.70	59342.510	1.0	61097.270	1.0
5697.2317	12.00	-1.87	59342.510	2.0	61097.270	1.0
5697.2317	12.00	-.39	59342.510	1.0	61097.270	2.0
5697.2317	12.00	-.57	59342.510	0.0	61097.270	1.0
5697.2317	12.00	-.87	59342.510	2.0	61097.270	2.0
5697.2317	12.00	.05	59342.510	2.0	61097.270	3.0
5698.3683	23.00	-4.03	37644.410	4.5	39398.820	3.5
5698.7256	15.00	-.69	76192.300	1.5	77946.600	2.5
5699.4306	10.00	-2.35	170532.717	2.0	172286.800	2.0
5700.7728	6.00	-2.02	86506.700	2.0	88260.370	2.0
5702.3011	22.00	-1.82	41714.350	2.0	43467.550	2.0
5703.4397	21.00	-4.46	32637.400	.5	34390.250	.5
5703.6675	18.00	-1.95	124311.720	1.0	126064.500	2.0
5705.0996	9.00	-2.20	128184.990	.5	129937.330	1.5
5705.1322	7.01	-2.84	209737.970	3.0	211490.300	2.0
5705.2396	10.00	.10	166606.333	0.0	168358.630	1.0
5706.5976	17.00	-1.64	98419.100	2.5	100170.980	1.5
5706.9234	22.00	-4.91	45711.280	4.0	47463.060	4.0
5708.7712	26.00	-4.28	47177.210	1.0	48928.423	2.0
5709.4982	18.01	-4.67	210447.010	3.5	212198.000	3.5
5709.5569	28.00	-3.09	48715.200	4.0	50466.172	4.0
5709.8569	18.01	-3.94	210447.010	3.5	212197.890	4.5
5711.5206	29.01	-1.49	135863.930	1.0	137614.300	0.0
5712.5323	6.00	-2.89	87341.040	0.0	89091.100	1.0
5714.4164	10.00	-1.28	170532.717	2.0	172282.200	3.0
5715.2527	7.00	-.39	110103.834	1.5	111853.061	1.5
5715.4160	10.00	-.21	166606.333	0.0	168355.510	1.0
5715.8964	6.00	-3.09	86449.190	3.0	88198.220	2.0
5715.9945	15.00	-.69	76021.600	1.5	77770.600	.5
5716.3866	14.01	-2.09	126396.730	3.5	128145.610	3.5
5716.3866	14.01	-.55	126396.730	4.5	128145.610	3.5
5716.3866	14.01	-.66	126396.730	3.5	128145.610	2.5
5716.7136	6.00	-3.84	87762.120	3.0	89510.900	3.0
5717.6061	14.00	-1.15	48102.323	2.0	49850.830	2.0
5718.0214	10.00	-3.06	170851.320	1.0	172599.700	0.0
5718.0214	10.00	-3.06	170851.320	1.0	172599.700	0.0
5718.2503	6.00	-2.50	87762.120	3.0	89510.430	2.0
5718.5775	6.00	-3.77	87762.220	2.0	89510.430	2.0
5719.6898	6.00	-.20	83877.310	1.0	85625.180	0.0
5719.9189	6.00	-2.36	87763.100	4.0	89510.900	3.0
5720.2986	17.00	-2.40	96945.536	2.5	98693.220	2.5
5720.3772	6.00	-4.29	87763.240	3.0	89510.900	3.0
5720.4099	27.00	-4.80	50712.450	2.5	52460.100	2.5
5720.7078	20.00	-1.95	47015.141	3.0	48762.700	2.0
5720.9762	17.00	-3.68	96945.536	2.5	98693.013	3.5
5721.9159	6.00	-2.81	87763.240	3.0	89510.430	2.0
5722.0830	10.00	-2.64	167795.897	3.0	169543.036	4.0
5722.1059	10.00	-4.04	167795.897	3.0	169543.029	3.0
5722.4072	18.00	-.46	119444.880	2.0	121191.920	2.0
5722.9084	13.00	-3.52	45194.663	2.5	46941.550	2.5
5722.9084	13.00	-2.22	45194.663	3.5	46941.550	2.5
5723.1934	15.00	-3.17	77655.200	3.5	79402.000	2.5
5723.6456	7.00	-.19	111060.905	.5	112807.567	.5
5724.4060	6.00	-2.42	86389.380	2.0	88135.810	3.0
5724.6452	28.00	-1.63	47424.830	1.0	49171.187	1.0
5724.8092	13.00	-2.38	45194.663	2.5	46940.970	1.5
5725.5371	10.00	-2.76	167796.944	2.0	169543.029	3.0
5727.5478	7.00	-.43	111165.158	1.5	112910.630	2.5
5728.7162	28.00	-1.91	47208.228	1.0	48953.344	1.0
5729.7866	10.01	-3.26	301855.710	2.5	303600.500	2.5
5730.2463	24.00	-3.78	53073.900	3.0	54818.550	2.0
5730.5157	18.00	-1.06	120188.340	1.0	121932.908	1.0
5731.1661	6.00	-2.62	87341.040	0.0	89085.410	1.0
5731.5670	18.00	-.88	120188.660	2.0	121932.908	1.0
5731.6590	10.01	-1.74	301855.710	2.5	303599.930	3.5
5732.4000	3.01	-.09	559501.000	0.0	561245.470	0.0
5732.4215	10.00	-3.40	167794.968	2.0	169538.956	2.0
5732.4445	10.00	-2.26	167794.968	2.0	169538.949	3.0
5732.6516	7.00	-.55	111165.158	1.5	112909.076	1.5
5734.0950	17.00	-.53	95995.561	.5	97739.040	.5
5734.6180	6.00	-4.96	86416.550	1.0	88159.870	0.0
5734.6970	14.00	-1.98	61597.404	3.0	63340.700	3.0
5735.4767	10.00	-4.28	167795.897	3.0	169538.956	2.0
5735.4997	10.00	-2.98	167795.897	3.0	169538.949	3.0
5736.1645	17.00	-2.52	100202.350	.5	101945.200	.5
5736.1645	17.00	-2.78	100202.350	.5	101945.200	1.5
5736.2961	14.00	-1.63	62141.800	1.0	63884.610	1.0
5736.7241	23.02	-4.13	161017.600	3.5	162760.280	4.5
5736.9874	15.01	-2.39	127368.000	2.0	129110.600	1.0
5737.0203	17.00	-2.15	100202.610	1.5	101945.200	.5
5737.0203	17.00	-2.84	100202.610	1.5	101945.200	1.5
5737.1356	14.00	-2.77	61598.145	2.0	63340.700	3.0
5738.1070	10.01	-4.19	303824.680	2.5	305566.940	1.5
5738.9239	10.00	-3.14	167796.944	2.0	169538.956	2.0
5738.9470	10.00	-4.32	167796.944	2.0	169538.949	3.0
5739.6455	7.00	-1.12	111204.016	2.5	112945.809	2.5
5739.9519	17.00	-.20	95612.357	1.5	97354.057	1.5
5740.1497	27.00	-1.95	44183.340	4.5	45924.980	3.5
5740.3804	29.01	-4.49	137077.600	3.0	138819.170	3.0
5740.5782	28.01	-4.33	132120.700	.5	133862.210	1.5
5740.5782	7.01	-1.21	209673.650	2.0	211415.160	2.0
5740.6441	18.00	-3.72	124311.720	1.0	126053.210	2.0
5740.8419	18.00	-2.62	124782.770	1.0	126524.200	0.0
5740.9968	10.00	-1.34	171324.017	1.0	173065.400	2.0
5741.1551	10.00	-1.67	169748.150	1.0	171489.485	1.0
5741.4023	18.01	-4.37	190592.170	1.5	192333.430	.5
5742.1938	56.01	.34	59894.980	0.0	61636.475	0.0
5742.5237	26.00	-3.92	52067.450	2.0	53808.370	1.0
5742.5237	23.00	-3.16	38106.320	2.5	39847.240	1.5
5742.5566	21.00	-4.33	35745.570	2.5	37486.480	1.5
5742.5896	6.00	-2.48	86519.470	1.0	88260.370	2.0
5742.9195	22.00	-3.75	43744.550	4.0	45485.350	5.0
5743.8434	18.00	-2.00	124349.040	3.0	126089.560	3.0
5743.9357	14.00	-2.17	57450.580	3.0	59191.072	2.0
5745.1439	7.00	-1.50	111060.905	.5	112801.031	1.5
5745.1967	19.00	-1.37	32648.350	.5	34388.460	1.5
5745.9364	26.00	-4.38	54683.390	4.0	56423.276	4.0
5746.1874	19.00	-1.67	32648.350	.5	34388.160	.5
5747.7401	6.00	-2.31	86321.940	0.0	88061.280	1.0
5748.9069	14.00	-2.31	59109.959	3.0	60848.946	4.0
5749.3863	7.00	-.96	111165.158	1.5	112904.000	.5
5749.4590	25.00	-2.24	57621.900	1.5	59360.720	2.5
5750.2030	14.00	-1.19	57372.297	2.0	59110.892	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5752.1054	14.00	-1.20	62936.140	3.0	64674.160	4.0
5752.1385	6.00	-1.29	86397.800	3.0	88135.810	3.0
5753.2905	14.00	-1.63	57372.297	2.0	59109.959	3.0
5753.9594	18.01	-1.70	208921.200	1.5	210658.660	2.5
5754.1084	26.00	-4.91	36940.600	2.0	38678.015	2.0
5754.3237	18.01	-2.44	208921.200	1.5	210658.550	1.5
5755.3838	28.01	-3.97	132120.700	.5	133857.730	.5
5755.4832	14.00	-1.18	61881.600	1.0	63618.600	0.0
5755.7151	27.00	-4.27	46706.830	3.5	48443.760	2.5
5755.9803	9.02	-1.70	467827.160	1.5	469564.010	.5
5756.0796	7.01	-1.70	209673.650	2.0	211410.470	3.0
5757.3393	28.01	-.95	134294.990	2.5	136031.430	2.5
5758.0025	6.00	-3.57	86912.860	1.0	88649.100	0.0
5758.3143	28.00	-4.27	48953.344	1.0	50689.490	2.0
5759.2697	10.00	.01	165912.782	1.0	167648.640	2.0
5759.4289	18.00	-.13	124788.390	1.0	126524.200	0.0
5759.8503	10.00	-1.70	170532.717	2.0	172268.400	1.0
5760.0926	28.01	-2.44	120189.550	.5	121925.160	.5
5760.1258	27.00	-1.55	45876.580	2.5	47612.180	1.5
5760.3814	10.00	-3.66	167794.968	2.0	169530.491	1.0
5760.3947	10.00	-2.71	167794.968	2.0	169530.487	2.0
5761.2876	18.01	-2.85	208923.410	2.5	210658.660	2.5
5761.6528	18.01	-3.39	208923.410	2.5	210658.550	1.5
5762.5495	26.00	-2.47	49804.900	3.0	51539.770	2.0
5763.4797	10.00	-4.35	167795.897	3.0	169530.487	2.0
5764.0447	9.02	-.99	467827.160	1.5	469561.580	1.5
5764.2773	10.00	-1.67	170557.050	1.0	172291.400	1.0
5764.2773	10.00	-2.50	170557.050	1.0	172291.400	2.0
5764.6761	28.00	-2.09	47424.830	1.0	49159.060	2.0
5766.3053	6.00	-1.50	86912.860	1.0	88646.600	1.0
5766.5182	26.00	-4.63	55124.974	3.0	56858.650	2.0
5766.9474	10.00	-4.54	167796.944	2.0	169530.491	1.0
5767.0704	6.00	-2.62	86362.520	1.0	88096.030	2.0
5767.8024	18.01	-4.25	210464.710	2.5	212198.000	3.5
5768.0687	28.01	-3.74	134252.850	3.5	135986.060	3.5
5768.2018	22.00	-4.64	44079.840	2.0	45813.010	2.0
5768.5679	24.00	-3.63	48824.500	4.0	50557.560	4.0
5769.3336	18.00	-2.06	124356.730	2.0	126089.560	3.0
5770.3060	7.00	.05	111213.271	1.5	112945.809	2.5
5770.6989	14.00	-3.63	62519.660	2.0	64252.080	2.0
5771.2320	28.01	-4.30	115000.250	3.5	116732.510	2.5
5772.0317	24.00	-4.99	46783.060	4.0	48515.080	3.0
5772.9349	10.00	-2.02	170867.951	1.0	172599.700	0.0
5772.9349	10.00	-2.02	170867.951	1.0	172599.700	0.0
5773.2417	14.00	-.30	57541.918	1.0	59273.575	1.0
5774.0219	26.00	-3.22	47197.000	2.0	48928.423	2.0
5774.0986	12.02	-2.52	582839.700	3.0	584571.100	2.0
5774.7656	15.01	-1.32	127934.900	1.0	129666.100	2.0
5774.7656	11.00	-1.87	38540.180	.5	40271.380	.5
5774.7756	10.00	-2.74	167807.759	1.0	169538.956	2.0
5775.2994	21.00	-4.47	32659.210	1.5	34390.250	.5
5775.5430	26.00	-3.57	47377.909	4.0	49108.876	4.0
5775.8166	10.00	.64	165828.175	2.0	167559.060	3.0
5776.0335	22.00	-3.38	44162.440	4.0	45893.260	3.0
5776.9714	14.00	.13	59917.336	2.0	61647.875	2.0
5777.2686	11.00	-1.56	38540.930	1.5	40271.380	.5
5777.3052	17.00	-.65	100502.871	1.5	102233.310	2.5
5777.7793	14.00	-2.73	62667.823	3.0	64398.120	2.0
5777.9697	28.01	-3.52	116833.150	4.5	118563.390	3.5
5778.3170	28.00	-3.70	42605.964	3.0	44336.100	4.0
5778.4372	15.00	-4.24	78133.500	2.5	79863.600	3.5
5778.6911	14.00	-.71	59917.336	2.0	61647.360	1.0
5778.7379	28.01	-3.33	134256.050	2.5	135986.060	3.5
5779.0385	28.01	-4.28	106007.890	2.5	107737.810	1.5
5779.6065	10.00	-1.42	170557.050	1.0	172286.800	2.0
5779.7735	28.01	-4.04	132225.150	1.5	133954.850	.5
5779.9406	6.00	-2.12	86331.630	1.0	88061.280	1.0
5780.1077	28.01	-4.93	133735.260	2.5	135464.860	3.5
5780.4754	6.00	-4.56	86362.520	1.0	88092.010	1.0
5782.2607	14.00	-2.39	62669.164	3.0	64398.120	2.0
5783.3177	18.00	-3.79	122329.720	3.0	124058.360	3.0
5783.3177	18.00	-.14	122329.720	3.0	124058.360	4.0
5783.7527	21.00	-4.42	32751.540	3.5	34480.050	2.5
5784.1442	14.00	-3.54	62669.727	2.0	64398.120	2.0
5784.7667	7.00	-.72	111198.848	.5	112927.055	1.5
5784.7901	29.01	-4.23	148521.800	1.0	150250.000	2.0
5785.6874	17.00	-1.44	98418.890	3.5	100146.822	3.5
5786.0289	6.00	-.17	81769.790	2.0	83497.620	2.0
5786.2298	14.00	-1.26	62936.140	3.0	64663.910	4.0
5786.2499	14.00	-.55	61198.036	0.0	62925.800	1.0
5786.3906	17.00	-2.84	98419.100	2.5	100146.822	3.5
5786.4007	14.00	-1.13	57328.789	1.0	59056.508	1.0
5786.6987	28.01	-4.87	133903.000	1.5	135630.630	2.5
5787.3352	10.01	-3.02	301801.090	3.5	303528.530	3.5
5788.3739	28.01	-4.47	119315.440	2.5	121042.570	1.5
5788.5080	28.01	-2.91	116145.690	3.5	117872.780	2.5
5788.8231	22.00	-4.44	37538.804	2.0	39265.800	2.0
5789.5505	10.00	.19	165912.782	1.0	167639.561	1.0
5789.8053	7.00	-3.93	111143.567	.5	112870.270	.5
5789.9831	10.01	-1.41	301801.090	3.5	303527.740	4.5
5790.3520	22.00	-.59	42018.010	5.0	43744.550	4.0
5790.3855	17.00	-.45	95612.357	1.5	97338.887	2.5
5790.5867	24.00	-4.48	33671.550	3.0	35398.020	4.0
5790.7209	6.00	-3.77	86369.600	2.0	88096.030	2.0
5790.9423	26.00	-2.94	31686.342	2.0	33412.706	3.0
5791.4254	14.00	-2.97	62935.760	3.0	64661.980	3.0
5791.6266	6.00	-1.98	86912.860	1.0	88639.020	1.0
5791.9454	26.00	-1.63	49502.530	5.0	51228.595	5.0
5792.1300	21.00	-4.33	32696.840	2.5	34422.850	1.5
5792.2307	28.01	-3.51	120199.180	1.5	121925.160	.5
5793.5062	15.01	-1.23	127900.400	0.0	129626.000	1.0
5794.9502	14.00	-2.13	62936.810	4.0	64661.980	3.0
5794.9737	10.00	-.97	169748.150	1.0	171473.313	2.0
5795.6725	7.00	-5.00	105143.680	2.5	106868.635	3.5
5795.8977	17.00	-.37	95534.923	.5	97259.811	1.5
5796.8756	26.00	-2.92	49737.110	5.0	51461.707	4.0
5797.3361	28.01	-3.01	134252.850	3.5	135977.310	4.5
5797.6051	18.00	-2.49	122329.720	3.0	124054.100	3.0
5798.2103	12.02	-1.01	582839.700	3.0	584563.900	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5798.9166	28.01	-3.10	134262.070	3.5	135986.060	3.5
5799.0848	6.00	-3.36	86912.860	1.0	88636.800	2.0
5799.8250	14.00	-1.30	62519.660	2.0	64243.380	2.0
5800.4643	14.00	-1.47	61617.170	4.0	63340.700	3.0
5802.0465	27.00	-2.59	44201.920	2.5	45924.980	3.5
5802.0566	26.00	-4.08	46313.610	2.0	48036.667	2.0
5802.1173	7.00	-.80	111204.016	2.5	112927.055	1.5
5802.2116	18.00	-.02	117183.654	2.0	118906.665	2.0
5803.1512	10.00	-2.99	167807.759	1.0	169530.491	1.0
5803.1647	10.00	-4.80	167807.759	1.0	169530.487	2.0
5804.2361	6.00	-3.94	86369.600	2.0	88092.010	1.0
5804.8359	10.00	.49	166656.508	1.0	168378.740	2.0
5804.9776	28.01	-4.78	121125.410	4.5	122847.600	3.5
5805.5607	10.00	-1.96	168967.353	1.0	170689.370	0.0
5805.6855	14.00	-1.11	62141.800	1.0	63863.780	2.0
5805.8541	18.00	-2.57	122329.720	3.0	124051.650	2.0
5806.5622	18.00	-.83	122329.720	3.0	124051.440	3.0
5807.1423	28.00	-1.63	49032.589	2.0	50754.137	2.0
5807.3380	9.02	-1.12	442147.190	2.5	443868.680	2.5
5809.3290	13.01	.17	146496.700	2.0	148217.600	3.0
5810.0718	9.00	-2.64	128338.720	.5	130059.400	.5
5810.3757	28.01	-4.88	133903.000	1.5	135623.590	1.5
5810.5074	18.00	-1.69	119444.880	2.0	121165.431	3.0
5810.5243	14.00	.10	59128.400	5.0	60848.946	4.0
5811.5916	18.01	-4.95	210477.770	3.5	212198.000	3.5
5811.6119	22.00	-2.15	36132.210	4.0	37852.434	4.0
5811.9633	18.01	-4.35	210477.770	3.5	212197.890	4.5
5812.3350	18.01	-1.96	201781.790	2.5	203501.800	2.5
5813.0447	13.01	-1.25	146497.800	3.0	148217.600	3.0
5813.0447	13.01	-1.54	146497.800	3.0	148217.600	4.0
5813.0447	13.01	.17	146497.800	3.0	148217.600	4.0
5813.4842	18.01	-1.19	203501.800	2.5	205221.470	1.5
5813.7647	18.00	-2.38	121653.400	3.0	123372.987	2.0
5814.4647	9.02	-.24	464321.840	2.5	466041.220	3.5
5815.2697	28.00	-1.41	48817.600	1.0	50536.742	1.0
5816.8667	28.01	-1.81	135493.260	1.5	137211.930	.5
5816.8769	18.00	-.28	121654.320	3.0	123372.987	2.0
5817.7468	26.00	-4.51	54379.440	3.0	56097.850	3.0
5817.7569	18.00	-1.65	121654.580	2.0	123372.987	2.0
5817.7807	13.01	-1.12	146499.200	4.0	148217.600	4.0
5817.7807	13.01	-1.26	146499.200	4.0	148217.600	4.0
5817.7807	13.01	.40	146499.200	4.0	148217.600	5.0
5817.7807	13.01	-2.69	146499.200	4.0	148217.600	3.0
5818.0143	26.00	-4.24	35257.309	4.0	36975.640	3.0
5818.7288	9.02	-2.88	442147.190	2.5	443865.310	1.5
5818.7965	13.01	-.81	146414.500	4.0	148132.600	3.0
5818.7965	13.01	-1.58	146414.500	4.0	148132.600	3.0
5818.7965	13.01	-2.60	146414.500	3.0	148132.600	3.0
5819.5417	12.00	-.71	59342.510	1.0	61060.390	2.0
5819.5417	12.00	-1.19	59342.510	2.0	61060.390	2.0
5820.4904	13.01	.46	144780.200	2.0	146497.800	3.0
5820.5921	28.01	-2.64	134238.440	6.5	135956.010	5.5
5820.8293	9.00	-2.14	128219.830	1.5	129937.330	1.5
5822.0496	27.00	-3.30	44658.030	1.5	46375.170	1.5
5822.4091	14.00	-1.71	59131.912	4.0	60848.946	4.0
5822.7956	18.00	-.73	122329.720	3.0	124046.640	4.0
5824.7294	6.00	-2.20	87633.750	2.0	89350.100	2.0
5824.7973	9.02	-1.48	464321.840	2.5	466038.170	2.5
5825.0688	9.02	-2.63	464921.740	3.5	466637.990	4.5
5826.5659	17.00	-1.83	100502.871	1.5	102218.680	2.5
5827.3913	14.00	-2.13	60705.464	3.0	62421.030	3.0
5827.5135	27.00	-4.94	49484.050	3.5	51199.580	3.5
5827.5848	17.00	-1.58	100502.871	1.5	102218.380	1.5
5827.6154	15.01	-1.67	127950.600	2.0	129666.100	2.0
5827.6154	19.00	-1.06	31695.890	2.5	33411.390	1.5
5827.7513	18.00	-2.02	124349.040	3.0	126064.500	2.0
5828.4988	28.01	-4.34	134262.070	3.5	135977.310	4.5
5828.4988	19.00	-2.01	31696.150	1.5	33411.390	1.5
5829.8924	22.00	-3.65	46650.260	3.0	48365.090	3.0
5830.1813	12.00	-2.08	59041.019	2.0	60755.764	2.0
5830.1813	12.00	-1.44	59041.019	2.0	60755.764	3.0
5830.1813	12.00	-1.52	59041.019	2.0	60755.764	3.0
5830.9158	10.00	-1.48	170858.871	3.0	172573.400	2.0
5830.9158	10.00	-1.48	170858.871	3.0	172573.400	2.0
5831.1165	28.01	-3.10	134271.590	4.5	135986.060	3.5
5831.6947	30.02	-3.10	260805.900	2.0	262520.200	2.0
5832.4432	19.00	-1.31	31696.150	1.5	33410.230	.5
5833.0558	25.00	-4.15	49591.510	1.5	51305.410	2.5
5833.4506	7.00	-.11	111213.271	1.5	112927.055	1.5
5833.6344	14.00	-2.04	61511.770	1.0	63225.500	2.0
5833.8046	27.00	-4.36	49847.080	2.5	51560.760	2.5
5835.7797	14.00	-.88	62231.990	2.0	63945.090	3.0
5836.4611	15.00	-.27	76021.600	1.5	77734.500	2.5
5836.4611	14.00	-1.31	62421.030	3.0	64133.930	4.0
5837.1768	28.01	-4.24	113407.310	2.5	115120.000	2.5
5838.5404	9.02	-4.70	466893.650	5.5	468605.940	4.5
5840.4846	14.00	-3.10	62935.760	3.0	64647.480	3.0
5840.6894	18.00	-2.09	122329.720	3.0	124041.380	2.0
5840.9282	6.00	-2.69	88061.280	1.0	89772.870	2.0
5841.2148	17.00	-3.77	92602.700	.5	94314.206	1.5
5841.3036	10.00	-3.67	170851.320	1.0	172562.800	1.0
5841.3036	10.00	-3.67	170851.320	1.0	172562.800	1.0
5841.7474	10.00	-2.47	170557.050	1.0	172268.400	1.0
5842.0204	22.00	-2.80	41871.870	2.0	43583.140	3.0
5842.0204	26.01	-4.52	47389.820	1.5	49101.090	.5
5842.8740	14.00	-3.40	62935.760	3.0	64646.780	2.0
5843.0960	7.00	-4.01	110194.654	1.5	111905.609	2.5
5843.1814	6.00	-1.01	88260.370	2.0	89971.300	3.0
5844.0694	14.00	-2.09	62936.810	4.0	64647.480	3.0
5844.2232	26.00	-4.16	45294.830	5.0	47005.455	5.0
5844.9305	10.00	-4.17	170862.982	2.0	172573.400	2.0
5844.9305	10.00	-4.17	170862.982	2.0	172573.400	2.0
5845.2654	25.00	-2.35	57705.830	.5	59416.150	1.5
5845.3337	28.01	-2.63	116732.510	2.5	118442.810	1.5
5845.5798	7.00	-.02	111198.848	.5	112909.076	1.5
5846.0721	18.00	-.13	119760.220	1.0	121470.304	0.0
5846.0857	22.00	-3.26	41757.470	3.0	43467.550	2.0
5848.3429	18.00	-3.04	123773.920	3.0	125483.340	2.0
5848.9588	18.00	-2.04	123773.920	3.0	125483.160	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5849.6193	14.00	-3.92	47351.554	2.0	49060.601	1.0
5849.7254	28.00	-1.61	42605.964	3.0	44314.980	4.0
5849.7459	27.00	-4.86	53195.980	2.5	54904.990	2.5
5850.1910	14.00	-4.12	61647.360	1.0	63356.240	2.0
5850.2937	18.01	-3.40	208921.200	1.5	210630.050	2.5
5850.5333	18.00	-1.88	123773.920	3.0	125482.700	3.0
5850.5333	18.00	-.58	123773.920	3.0	125482.700	4.0
5850.7147	9.00	-2.06	128064.103	3.5	129772.830	2.5
5851.0332	26.00	-3.97	50045.900	2.0	51754.534	1.0
5851.3209	18.00	-3.20	124381.010	2.0	126089.560	3.0
5851.6634	24.00	.30	44259.360	3.0	45967.810	2.0
5851.7319	10.01	-2.73	301801.090	3.5	303509.520	2.5
5851.9545	14.00	-2.40	61647.875	2.0	63356.240	2.0
5852.2217	14.00	-1.19	57798.072	2.0	59506.359	2.0
5852.4856	10.00	-3.36	171148.780	0.0	172856.990	1.0
5852.9343	17.00	-.24	95995.561	.5	97703.640	1.5
5853.9934	18.00	-1.96	124356.730	2.0	126064.500	2.0
5854.8505	14.00	-3.04	62954.460	3.0	64661.980	3.0
5856.4179	7.00	-.17	111204.016	2.5	112911.079	3.5
5856.7027	14.00	-1.32	62545.100	1.0	64252.080	2.0
5856.7370	27.00	-2.71	43398.620	3.5	45105.590	3.5
5856.8640	11.00	-1.61	38387.257	2.5	40094.190	2.5
5856.8640	11.00	-.31	38387.257	2.5	40094.190	3.5
5856.9086	11.00	-.47	38387.270	1.5	40094.190	2.5
5857.2859	6.00	-1.86	86491.410	1.0	88198.220	2.0
5857.8351	6.00	-1.86	86389.380	2.0	88096.030	2.0
5857.8695	18.01	-2.25	208923.410	2.5	210630.050	2.5
5857.9587	7.00	-.03	111204.016	2.5	112910.630	2.5
5858.5903	6.00	-2.19	88260.370	2.0	89966.800	3.0
5859.0711	6.00	-3.50	88260.370	2.0	89966.660	2.0
5859.4351	10.00	-.86	169976.740	0.0	171682.924	1.0
5859.9983	6.00	-3.01	83497.620	2.0	85203.640	2.0
5860.2731	22.00	-4.33	41624.130	4.0	43330.070	5.0
5861.0290	28.01	-4.03	134271.590	4.5	135977.310	4.5
5861.9568	24.00	-4.28	37205.880	3.0	38911.330	3.0
5861.9603	10.00	-3.57	170867.951	1.0	172573.400	2.0
5861.9603	10.00	-3.57	170867.951	1.0	172573.400	2.0
5862.1287	28.01	-2.56	115956.710	2.5	117662.110	1.5
5862.5412	9.02	-.61	466978.150	1.5	468683.430	2.5
5862.9813	7.00	-1.08	111198.848	.5	112904.000	.5
5863.1189	7.00	-1.13	111165.158	1.5	112870.270	.5
5863.2976	7.00	-2.08	111204.016	2.5	112909.076	1.5
5863.4352	28.01	-4.14	116167.760	1.5	117872.780	2.5
5864.1575	9.02	-.92	464491.890	3.5	466196.700	3.5
5864.9763	18.00	.01	119566.110	3.0	121270.682	2.0
5866.0259	17.00	-1.01	97703.640	1.5	99407.907	.5
5866.3598	18.00	-3.00	124349.040	3.0	126053.210	2.0
5866.4459	14.00	-2.48	60962.105	2.0	62666.250	1.0
5868.7704	28.00	-3.65	49086.030	4.0	50789.500	4.0
5869.1804	14.00	-.06	57328.789	1.0	59032.140	2.0
5869.5974	26.00	-4.06	52682.930	2.0	54386.160	1.0
5869.9765	18.01	-.06	204417.230	1.5	206120.350	2.5
5870.9416	14.00	-2.44	62141.800	1.0	63844.640	0.0
5870.9485	18.00	-1.21	120230.070	2.0	121932.908	1.0
5871.4244	28.01	-4.88	129419.580	4.5	131122.280	5.5
5871.4589	28.01	-3.18	134274.620	5.5	135977.310	4.5
5871.6658	6.00	-3.34	86389.380	2.0	88092.010	1.0
5872.1141	6.00	-3.39	87819.900	3.0	89522.400	2.0
5872.5281	15.00	-2.90	66544.120	2.5	68246.500	2.5
5872.5453	26.00	-3.33	36975.640	3.0	38678.015	2.0
5872.9075	28.01	-2.35	120222.890	1.5	121925.160	.5
5873.3216	6.00	-1.26	86912.860	1.0	88615.010	1.0
5873.4182	10.00	-.21	166656.508	1.0	168358.630	1.0
5873.8392	13.01	.95	143262.700	2.0	144964.700	3.0
5875.2890	25.00	-3.82	43428.580	4.5	45130.160	4.5
5876.0488	28.01	-4.47	118442.810	1.5	120144.170	2.5
5877.6379	9.00	-2.25	128520.220	.5	130221.120	1.5
5877.6725	6.00	-1.44	86491.410	1.0	88192.300	1.0
5878.7785	9.02	-1.77	466982.860	2.5	468683.430	2.5
5878.8753	10.00	-2.52	170872.858	2.0	172573.400	2.0
5878.8753	10.00	-2.52	170872.858	2.0	172573.400	2.0
5879.7812	28.01	-3.85	133734.980	3.5	135435.260	4.5
5880.1546	10.00	-2.03	170873.228	3.0	172573.400	2.0
5880.1546	10.00	-2.03	170873.228	3.0	172573.400	2.0
5880.5766	9.02	-.46	466982.860	2.5	468682.910	3.5
5881.3793	10.00	-2.35	170862.982	2.0	172562.800	1.0
5881.3793	10.00	-2.35	170862.982	2.0	172562.800	1.0
5881.8568	28.01	-3.40	134286.380	4.5	135986.060	3.5
5881.9606	18.01	-1.21	191012.350	1.5	192712.000	1.5
5882.0886	18.00	-4.98	123372.987	2.0	125072.600	1.0
5882.0990	14.00	-2.43	62318.700	0.0	64018.310	1.0
5882.8951	28.01	-4.46	113408.710	1.5	115108.090	2.5
5883.4144	6.00	-4.54	87819.900	3.0	89519.130	3.0
5883.7260	9.02	-2.43	464491.890	3.5	466191.030	2.5
5883.7607	6.00	-2.46	87820.000	4.0	89519.130	3.0
5883.9997	7.00	-.57	111060.905	.5	112759.966	1.5
5884.2040	10.00	.08	166656.508	1.0	168355.510	1.0
5884.4187	14.00	-1.30	62596.320	2.0	64295.260	3.0
5884.5572	14.00	-2.46	63225.500	2.0	64924.400	3.0
5884.9071	14.00	-3.02	58311.659	0.0	60010.458	1.0
5885.0422	6.00	-2.05	86362.520	1.0	88061.280	1.0
5885.8738	6.00	-3.26	87827.020	2.0	89525.540	1.0
5885.9430	15.00	-3.31	75956.700	3.5	77655.200	3.5
5886.7055	14.00	-1.93	62545.100	1.0	64243.380	2.0
5886.8789	6.00	-4.02	86397.800	3.0	88096.030	2.0
5887.3642	23.00	-4.07	36408.230	1.5	38106.320	2.5
5887.3989	28.01	-4.36	133954.850	.5	135652.930	1.5
5887.6416	28.01	-4.19	134262.070	3.5	135960.080	4.5
5888.0404	14.00	.60	59118.030	3.0	60815.925	2.0
5888.2311	9.00	-1.32	128523.280	1.5	130221.120	1.5
5888.2450	12.00	-2.43	59318.764	3.0	61016.600	2.0
5888.2450	12.00	-1.10	59318.764	3.0	61016.600	3.0
5888.2450	12.00	-1.30	59318.764	3.0	61016.600	3.0
5888.2450	12.00	.17	59318.764	3.0	61016.600	4.0
5888.2831	12.00	-1.06	59318.775	2.0	61016.600	2.0
5888.2831	12.00	-.32	59318.775	2.0	61016.600	3.0
5888.2831	12.00	-.66	59318.775	2.0	61016.600	3.0
5888.3456	12.00	-.16	59318.793	1.0	61016.600	2.0
5888.5086	27.00	-3.81	46746.000	2.5	48443.760	2.5
5889.8998	7.00	-.09	111213.271	1.5	112910.630	2.5
5892.1388	26.00	-4.77	50043.250	1.0	51739.964	2.0
5892.3610	22.00	-4.60	41337.430	2.0	43034.080	1.0
5892.7778	23.00	-3.37	35379.110	3.5	37075.640	4.5
5892.8473	26.00	-4.68	52682.930	2.0	54379.440	3.0
5892.8577	12.00	-1.82	59400.763	2.0	61097.270	2.0
5892.8577	12.00	-.92	59400.763	2.0	61097.270	1.0
5892.8577	12.00	-.79	59400.763	3.0	61097.270	2.0
5892.8577	12.00	-2.60	59400.763	3.0	61097.270	2.0
5892.8577	12.00	-3.20	59400.763	2.0	61097.270	3.0
5892.8577	12.00	-1.87	59400.763	3.0	61097.270	3.0
5892.8577	12.00	-2.06	59400.763	3.0	61097.270	3.0
5892.8577	12.00	-.59	59400.763	4.0	61097.270	3.0
5892.9514	18.00	-2.06	124356.730	2.0	126053.210	2.0
5892.9862	10.00	-3.47	170875.760	2.0	172572.230	3.0
5893.0557	22.00	-3.88	39640.980	3.0	41337.430	2.0
5893.2294	15.00	-1.15	76192.300	1.5	77888.700	1.5
5893.3336	10.00	-3.66	170875.760	1.0	172572.130	2.0
5893.3336	10.00	-4.63	170875.760	2.0	172572.130	2.0
5893.9208	18.00	-4.27	121011.979	1.0	122708.180	2.0
5894.4455	10.00	-1.42	171913.480	0.0	173609.530	1.0
5895.2241	10.00	-4.82	167846.444	4.0	169542.270	4.0
5895.2241	10.00	-3.20	167846.444	4.0	169542.270	5.0
5895.2971	7.00	-.77	111213.271	1.5	112909.076	1.5
5895.4188	9.00	-2.69	128525.350	2.5	130221.120	1.5
5895.8360	28.01	-1.90	134281.660	5.5	135977.310	4.5
5896.0342	10.00	-3.30	167846.677	3.0	169542.270	4.0
5896.4967	6.00	-2.43	87826.940	3.0	89522.400	2.0
5896.7750	6.00	-4.35	87827.020	2.0	89522.400	2.0
5896.7993	14.00	-.72	57198.027	3.0	58893.400	3.0
5897.4707	10.00	-1.39	169976.740	0.0	171671.920	1.0
5897.8534	10.00	-2.59	170875.760	1.0	172570.830	1.0
5897.8534	10.00	-3.29	170875.760	2.0	172570.830	1.0
5898.4449	13.01	-.48	143269.800	3.0	144964.700	3.0
5898.4449	13.01	-.22	143269.800	3.0	144964.700	4.0
5898.4449	13.01	.80	143269.800	3.0	144964.700	4.0
5898.6224	10.00	-2.65	170867.951	1.0	172562.800	1.0
5898.6224	10.00	-2.65	170867.951	1.0	172562.800	1.0
5898.6747	14.00	-1.39	58801.524	1.0	60496.358	2.0
5899.4579	7.00	-3.52	105119.850	1.5	106814.459	2.5
5900.0009	7.00	-2.05	111143.567	.5	112838.020	1.5
5900.3248	10.00	-4.31	167846.430	3.0	169540.790	3.0
5900.3248	10.00	-2.92	167846.430	3.0	169540.790	4.0
5900.3735	10.00	-3.73	167846.444	4.0	169540.790	4.0
5901.0213	12.00	-3.27	59403.110	1.0	61097.270	2.0
5901.1851	10.00	-3.86	167846.677	3.0	169540.790	3.0
5901.2269	10.00	-3.05	167846.689	2.0	169540.790	3.0
5901.9619	24.00	-3.69	46967.700	2.0	48661.590	3.0
5901.9968	12.00	-4.63	52556.206	0.0	54250.086	1.0
5902.8680	10.00	-3.29	170875.760	1.0	172569.390	2.0
5902.8680	10.00	-2.34	170875.760	2.0	172569.390	2.0
5903.3560	14.00	-2.15	62968.490	4.0	64661.980	3.0
5904.3217	7.00	-1.05	110212.396	2.5	111905.609	2.5
5904.7855	28.01	-4.46	134053.050	2.5	135746.130	1.5
5904.9948	14.00	-2.41	62954.460	3.0	64647.480	3.0
5905.2739	6.00	-2.61	86956.160	1.0	88649.100	0.0
5905.6751	14.00	-3.01	61647.875	2.0	63340.700	3.0
5905.6925	28.01	-4.93	117972.470	3.5	119665.290	2.5
5905.9611	17.00	.20	100166.217	3.5	101858.960	2.5
5906.4600	15.00	-3.09	78069.000	1.5	79761.600	2.5
5906.5054	8.00	-1.84	106785.213	2.0	108477.800	1.0
5906.5054	8.00	-2.57	106785.213	2.0	108477.800	2.0
5906.5054	8.00	-4.12	106785.213	2.0	108477.800	3.0
5906.5054	8.00	-1.67	106785.213	3.0	108477.800	2.0
5906.5054	8.00	-2.57	106785.213	3.0	108477.800	3.0
5906.5054	8.00	-1.51	106785.213	4.0	108477.800	3.0
5906.8788	14.00	-4.27	62955.000	2.0	64647.480	3.0
5906.9137	22.00	-4.41	44375.570	5.0	46068.040	4.0
5907.4373	14.00	-2.08	62954.460	3.0	64646.780	2.0
5907.8912	6.00	-3.37	87826.940	3.0	89519.130	3.0
5908.1705	6.00	-4.96	87827.020	2.0	89519.130	3.0
5908.9387	6.00	-1.93	86912.860	1.0	88604.750	2.0
5909.1483	22.00	-1.92	42052.720	3.0	43744.550	4.0
5909.1832	29.01	-3.14	136336.880	1.0	138028.700	1.0
5909.3229	14.00	-2.48	62955.000	2.0	64646.780	2.0
5909.6723	6.00	-4.54	86369.600	2.0	88061.280	1.0
5910.0566	10.00	-3.53	170880.660	2.0	172572.230	3.0
5910.0566	10.00	-2.23	170880.660	3.0	172572.230	3.0
5910.1264	28.01	-3.56	134252.850	3.5	135944.400	3.5
5910.2312	6.00	-1.33	86506.700	2.0	88198.220	2.0
5910.4060	10.00	-2.38	170880.660	2.0	172572.130	2.0
5910.4060	10.00	-3.53	170880.660	3.0	172572.130	2.0
5910.8951	6.00	-2.17	83497.620	2.0	85188.950	1.0
5911.6991	15.01	-.82	127934.900	1.0	129626.000	1.0
5911.7690	10.00	-1.82	171659.690	2.0	173350.770	1.0
5911.8040	28.01	-4.84	134294.990	2.5	135986.060	3.5
5911.8284	18.00	-2.28	124603.957	2.0	126295.020	3.0
5912.2480	18.00	-.58	124603.957	2.0	126294.900	3.0
5912.2934	28.01	-2.21	134286.380	4.5	135977.310	4.5
5912.3983	6.00	-2.56	87820.000	4.0	89510.900	3.0
5912.9963	7.00	-1.38	111213.271	1.5	112904.000	.5
5913.0977	29.01	-4.04	148559.300	2.0	150250.000	2.0
5913.6923	22.00	-5.00	41457.620	3.0	43148.150	3.0
5913.6924	6.00	-3.34	87819.900	3.0	89510.430	2.0
5913.7274	10.00	-4.90	167846.430	3.0	169536.950	2.0
5913.7274	10.00	-3.61	167846.430	3.0	169536.950	3.0
5913.7274	11.00	-2.85	38399.790	2.5	40090.310	2.5
5913.7274	11.00	-1.55	38399.790	3.5	40090.310	2.5
5913.7274	11.00	-1.71	38399.790	2.5	40090.310	1.5
5914.0072	6.00	-1.36	86956.160	1.0	88646.600	1.0
5914.1401	26.00	-4.51	53739.488	5.0	55429.890	5.0
5914.3851	17.00	-1.37	95313.749	1.5	97004.081	1.5
5914.6335	10.00	-4.94	167846.689	2.0	169536.950	3.0
5914.6335	10.00	-3.77	167846.689	2.0	169536.950	2.0
5914.9519	10.00	-1.91	170880.660	2.0	172570.830	1.0
5915.0569	10.00	-2.59	170875.760	1.0	172565.900	1.0
5915.0569	10.00	-1.90	170875.760	2.0	172565.900	1.0
5915.0814	10.00	-1.50	170877.950	4.0	172568.083	3.0
5915.7499	10.00	-2.30	170872.858	2.0	172562.800	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5915.7499	10.00	-2.30	170872.858	2.0	172562.800	1.0
5915.8620	10.00	-3.05	170877.950	4.0	172567.860	4.0
5915.8620	10.00	-1.40	170877.950	5.0	172567.860	4.0
5916.1771	10.00	-4.09	171659.690	2.0	173349.510	3.0
5916.1771	10.00	-2.92	171659.690	3.0	173349.510	3.0
5916.2121	10.00	-2.95	171659.690	2.0	173349.500	2.0
5916.2121	10.00	-1.61	171659.690	3.0	173349.500	2.0
5916.2821	26.00	-1.24	49502.530	5.0	51192.320	4.0
5916.3171	10.00	-2.77	171659.690	2.0	173349.470	2.0
5916.4291	17.00	-3.25	99200.382	3.5	100890.130	2.5
5916.9824	10.00	-2.79	171659.920	3.0	173349.510	3.0
5916.9824	10.00	-1.48	171659.920	4.0	173349.510	3.0
5917.0175	10.00	-4.08	171659.920	3.0	173349.500	2.0
5917.1225	10.00	-1.62	171659.920	3.0	173349.470	2.0
5917.3922	17.00	-2.21	99200.382	3.5	100889.855	3.5
5918.1033	10.00	-2.99	170882.960	3.0	172572.230	3.0
5918.1033	10.00	-1.55	170882.960	4.0	172572.230	3.0
5918.4537	10.00	-1.68	170882.960	3.0	172572.130	2.0
5918.5237	27.00	-4.12	50945.470	.5	52634.620	.5
5918.5622	17.00	-1.14	97004.081	1.5	98693.220	2.5
5918.5762	7.00	-.47	109812.233	.5	111501.368	1.5
5918.6288	10.00	-2.29	170875.760	1.0	172564.880	0.0
5918.6288	17.00	-1.18	100169.840	3.5	101858.960	2.5
5919.2246	17.00	-.17	100170.010	2.5	101858.960	2.5
5919.7153	28.01	-2.91	134267.200	6.5	135956.010	5.5
5919.9957	10.00	-2.87	170880.660	2.0	172569.390	2.0
5919.9957	10.00	-1.72	170880.660	3.0	172569.390	2.0
5920.6969	14.00	-.11	59273.575	1.0	60962.105	2.0
5920.8371	28.01	-3.85	134271.590	4.5	135960.080	4.5
5921.3281	28.01	-3.52	134256.050	2.5	135944.400	3.5
5922.1349	18.00	-2.24	124376.380	1.0	126064.500	2.0
5922.1946	16.00	.61	74267.597	2.0	75955.700	3.0
5922.2190	12.00	-1.26	58575.487	3.0	60263.583	2.0
5922.2190	12.00	-2.48	58575.487	3.0	60263.583	3.0
5922.3278	12.00	-2.41	58575.518	2.0	60263.583	2.0
5922.3278	12.00	-1.50	58575.518	2.0	60263.583	1.0
5922.3278	12.00	-3.78	58575.518	2.0	60263.583	3.0
5922.3278	12.00	-2.61	58575.518	3.0	60263.583	3.0
5922.8085	17.00	-2.41	96731.172	3.5	98419.100	2.5
5922.9489	26.00	-4.00	45509.112	1.0	47197.000	2.0
5923.2577	6.00	-3.86	87837.740	1.0	89525.540	1.0
5923.2577	6.00	-2.51	87837.740	2.0	89525.540	1.0
5923.5455	17.00	-3.77	96731.172	3.5	98418.890	3.5
5924.3107	29.01	-3.64	146415.700	2.0	148103.200	3.0
5924.5810	10.00	-3.76	170880.660	2.0	172568.083	3.0
5925.2868	7.00	.14	111204.016	2.5	112891.238	3.5
5925.3641	10.00	-3.64	170880.660	3.0	172567.860	4.0
5925.5046	9.02	-1.25	442370.280	.5	444057.440	1.5
5925.6802	28.01	-3.07	114052.040	3.5	115739.150	4.5
5925.7153	21.00	-1.66	36492.820	.5	38179.920	1.5
5927.3666	24.01	-4.88	51584.440	1.5	53271.070	2.5
5927.4017	6.00	-2.93	86449.190	3.0	88135.810	3.0
5928.8079	18.01	-1.57	204417.230	1.5	206103.450	1.5
5929.0891	9.02	-1.01	442370.280	.5	444056.420	.5
5929.2649	27.00	-4.14	49484.050	3.5	51170.140	4.5
5929.7573	18.01	-1.56	208923.410	2.5	210609.360	3.5
5930.5312	29.01	-2.45	137212.700	1.0	138898.430	1.0
5930.7423	21.00	-2.03	17025.360	1.5	18711.030	.5
5930.9886	6.00	-2.30	86506.700	2.0	88192.300	1.0
5931.0624	14.00	-1.24	58801.524	1.0	60487.103	1.0
5931.3334	7.00	-2.01	110220.107	1.5	111905.609	2.5
5931.4812	28.01	-4.34	134274.620	5.5	135960.080	4.5
5931.9035	23.00	-4.17	37556.000	3.5	39241.340	2.5
5932.0444	6.00	-4.85	87763.100	4.0	89448.400	3.0
5932.1148	6.00	-2.91	87762.120	3.0	89447.400	2.0
5932.3963	24.00	-4.58	33816.060	4.0	35501.260	3.0
5932.4668	6.00	-3.38	87762.220	2.0	89447.400	2.0
5932.5371	6.00	-4.69	87763.240	3.0	89448.400	3.0
5932.6393	28.00	-2.32	42790.027	2.0	44475.158	2.0
5932.6674	10.00	-2.46	170882.960	3.0	172568.083	3.0
5932.6674	10.00	-3.90	170882.960	4.0	172568.083	3.0
5932.8716	12.00	-1.17	58578.518	4.0	60263.583	3.0
5933.0019	8.00	-2.22	106785.172	1.0	108470.200	1.0
5933.0019	8.00	-3.07	106785.172	1.0	108470.200	2.0
5933.0019	8.00	-1.92	106785.172	2.0	108470.200	1.0
5933.0019	8.00	-2.07	106785.172	2.0	108470.200	2.0
5933.0019	8.00	-3.07	106785.172	2.0	108470.200	3.0
5933.0019	8.00	-1.69	106785.172	3.0	108470.200	2.0
5933.0019	8.00	-2.04	106785.172	3.0	108470.200	3.0
5933.0019	8.00	-3.37	106785.172	3.0	108470.200	4.0
5933.0019	8.00	-1.49	106785.172	4.0	108470.200	3.0
5933.0019	8.00	-2.19	106785.172	4.0	108470.200	4.0
5933.0019	8.00	-1.33	106785.172	5.0	108470.200	4.0
5933.0019	8.00	-2.22	106785.172	1.0	108470.200	0.0
5933.0970	9.00	-1.94	128087.829	2.5	129772.830	2.5
5933.1569	18.00	-2.01	114975.070	1.0	116660.054	1.0
5933.1604	18.00	-4.47	124609.917	4.0	126294.900	4.0
5933.3258	7.00	-.80	111260.873	3.5	112945.809	2.5
5933.4526	26.00	-4.77	53840.680	6.0	55525.580	5.0
5933.4526	10.00	-2.35	170882.960	4.0	172567.860	4.0
5933.4526	10.00	-3.89	170882.960	3.0	172567.860	4.0
5933.6287	19.00	-.60	32598.300	2.5	34283.150	1.5
5934.0865	19.00	-1.56	32598.430	1.5	34283.150	1.5
5934.2980	6.00	-4.40	87837.740	1.0	89522.400	2.0
5934.2980	6.00	-3.18	87837.740	2.0	89522.400	2.0
5934.8616	27.00	-4.99	47393.930	2.5	49078.430	1.5
5935.4254	19.00	-.86	32598.430	1.5	34282.770	.5
5935.4324	28.00	-2.40	49032.589	2.0	50716.927	1.0
5936.0597	6.00	-2.72	87763.240	3.0	89447.400	2.0
5936.2712	13.01	-.34	143280.600	4.0	144964.700	4.0
5936.2712	13.01	-.48	143280.600	4.0	144964.700	4.0
5936.2712	13.01	1.19	143280.600	4.0	144964.700	5.0
5936.2712	13.01	-1.90	143280.600	4.0	144964.700	3.0
5936.5285	14.00	-3.13	62667.823	3.0	64351.850	3.0
5936.7189	16.00	-.14	74267.597	2.0	75951.570	2.0
5936.7647	6.00	-3.05	87826.940	3.0	89510.900	3.0
5937.0468	6.00	-4.62	87827.020	2.0	89510.900	3.0
5937.7238	26.00	-3.92	45061.287	3.0	46744.975	3.0
5938.4221	18.00	-1.03	124381.010	2.0	126064.500	2.0
5938.4221	6.00	-3.12	87826.940	3.0	89510.430	2.0
5938.5174	16.00	-1.32	74267.597	2.0	75951.060	1.0
5938.9055	12.00	-2.29	58580.230	1.0	60263.583	2.0
5938.9160	10.00	-1.37	170578.390	1.0	172261.740	1.0
5938.9513	29.01	-3.72	116388.000	2.0	118071.340	1.0
5938.9654	26.00	-3.23	45333.834	2.0	47017.170	3.0
5940.1511	13.01	.05	142958.900	1.0	144641.900	0.0
5940.4335	16.00	.33	74268.650	1.0	75951.570	2.0
5940.6099	6.00	-2.34	88096.030	2.0	89778.900	3.0
5940.6453	6.00	-1.58	86956.160	1.0	88639.020	1.0
5941.3125	14.00	-2.04	62669.179	4.0	64351.850	3.0
5942.0224	14.00	-2.03	61936.130	1.0	63618.600	0.0
5942.2343	16.00	-.14	74268.650	1.0	75951.060	1.0
5942.5168	28.01	-3.29	134262.070	3.5	135944.400	3.5
5942.9761	29.01	-3.60	146423.400	4.0	148105.600	4.0
5945.1177	16.00	-1.28	74972.250	4.0	76653.844	3.0
5945.2061	16.00	.76	74972.250	4.0	76653.819	5.0
5945.2132	16.00	-.11	74972.250	4.0	76653.817	4.0
5945.8390	28.01	-4.13	134274.620	5.5	135956.010	5.5
5945.8390	6.00	-4.51	87837.740	2.0	89519.130	3.0
5946.0442	14.00	.18	57450.580	3.0	59131.912	4.0
5946.1220	28.01	-2.92	116191.470	2.5	117872.780	2.5
5946.6879	6.00	-3.43	86965.450	2.0	88646.600	1.0
5947.2893	14.00	-4.61	62935.760	3.0	64616.740	2.0
5947.7139	6.00	-1.83	88092.010	1.0	89772.870	2.0
5947.8944	14.00	-.02	59917.336	2.0	61598.145	2.0
5948.4181	16.00	-.98	74973.200	3.0	76653.861	2.0
5948.4570	14.00	-.77	61305.670	1.0	62986.320	2.0
5948.4783	16.00	.04	74973.200	3.0	76653.844	3.0
5948.4924	6.00	-2.72	86956.160	1.0	88636.800	2.0
5948.5739	16.00	.59	74973.200	3.0	76653.817	4.0
5948.9172	10.00	-1.55	171148.780	0.0	172829.300	1.0
5949.4872	16.00	-.02	74270.701	0.0	75951.060	1.0
5949.5544	17.00	-.80	97674.330	2.5	99354.670	1.5
5949.7315	14.00	-1.41	61305.670	1.0	62985.960	1.0
5950.5176	14.00	.89	59917.336	2.0	61597.404	3.0
5950.6416	28.00	-1.98	49171.187	1.0	50851.220	1.0
5950.7586	13.01	-.50	142958.900	1.0	144638.900	1.0
5950.7586	13.01	-.02	142958.900	1.0	144638.900	2.0
5950.9002	24.00	-4.47	46878.610	3.0	48558.570	2.0
5951.1836	27.00	-2.32	43425.710	2.5	45105.590	3.5
5951.4670	29.01	-4.93	146423.400	4.0	148103.200	3.0
5951.5131	22.00	-4.74	37622.573	3.0	39302.360	4.0
5952.2927	16.00	-.98	74974.330	2.0	76653.897	1.0
5952.4202	16.00	.02	74974.330	2.0	76653.861	2.0
5952.4805	16.00	.40	74974.330	2.0	76653.844	3.0
5952.6010	6.00	-3.33	86416.550	1.0	88096.030	2.0
5953.6219	14.00	-.39	57541.918	1.0	59221.110	0.0
5954.3382	14.00	-3.16	62968.490	4.0	64647.480	3.0
5955.1895	6.00	-2.83	86519.470	1.0	88198.220	2.0
5955.4130	16.00	-.14	74975.210	1.0	76653.897	1.0
5955.5407	16.00	.16	74975.210	1.0	76653.861	2.0
5955.6507	25.00	-4.83	57705.830	.5	59384.450	1.5
5956.2504	10.00	.31	165912.782	1.0	167591.233	2.0
5956.3603	28.01	-3.04	134281.660	5.5	135960.080	4.5
5956.5378	28.01	-4.19	134067.760	1.5	135746.130	1.5
5957.2015	22.00	-2.23	36065.750	3.0	37743.933	3.0
5957.5068	16.00	-.14	74975.800	0.0	76653.897	1.0
5958.3838	28.01	-4.02	132225.150	1.5	133903.000	1.5
5958.8100	26.02	-4.03	198717.600	4.0	200395.330	5.0
5959.1901	26.00	-4.61	47755.485	3.0	49433.108	2.0
5960.3377	15.00	-4.14	65157.200	2.5	66834.500	1.5
5960.7286	7.01	-2.57	209737.970	3.0	211415.160	2.0
5960.7996	6.00	-1.74	88096.030	2.0	89773.200	3.0
5961.5105	9.00	-2.41	128697.890	2.5	130374.860	1.5
5961.5710	26.00	-4.73	45595.046	0.0	47271.999	1.0
5961.9727	6.00	-1.84	88096.030	2.0	89772.870	2.0
5962.0083	18.00	-2.14	124376.380	1.0	126053.210	2.0
5962.4705	10.00	-1.08	170585.040	1.0	172261.740	1.0
5962.5772	10.00	-2.04	171148.780	0.0	172825.450	1.0
5963.0395	24.00	-4.51	48507.560	1.0	50184.100	2.0
5964.3559	18.00	-.12	118512.170	0.0	120188.340	1.0
5964.5231	10.00	-.53	169797.190	3.0	171473.313	2.0
5964.7616	7.00	-.52	111060.905	.5	112736.961	1.5
5964.8896	28.01	-2.83	100078.780	1.5	101754.800	2.5
5965.1743	10.00	-1.07	170578.390	1.0	172254.330	0.0
5966.1712	14.00	-4.15	62986.320	2.0	64661.980	3.0
5966.2779	17.00	-.65	100170.010	2.5	101845.640	1.5
5966.8833	6.00	-3.67	86416.550	1.0	88092.010	1.0
5966.9902	28.01	-3.30	114836.630	3.5	116512.060	3.5
5967.0970	15.01	-.72	127950.600	2.0	129626.000	1.0
5968.5932	23.02	-2.50	161085.300	4.5	162760.280	4.5
5968.9888	22.00	-2.17	37852.021	1.0	39526.890	2.0
5969.0387	10.00	-.87	169814.630	2.0	171489.485	1.0
5969.1278	28.01	-4.02	135261.990	4.5	136936.820	3.5
5969.4486	18.00	-1.02	123808.600	2.0	125483.340	2.0
5969.7338	27.00	-1.83	44201.920	2.5	45876.580	2.5
5970.0902	18.00	-2.33	123808.600	2.0	125483.160	3.0
5970.5859	18.00	-1.80	121011.979	1.0	122686.400	2.0
5970.5966	14.00	.22	59032.140	2.0	60706.558	1.0
5970.8390	28.01	-3.55	134281.660	5.5	135956.010	5.5
5971.2991	18.00	-2.41	121011.979	1.0	122686.200	1.0
5971.7307	18.00	.12	123808.600	2.0	125482.700	3.0
5973.0151	17.00	-1.12	100185.220	1.5	101858.960	2.5
5973.0865	9.02	-1.78	489494.530	3.5	491168.250	2.5
5973.1579	28.01	-3.99	134286.380	4.5	135960.080	4.5
5973.2792	13.00	-2.14	44919.654	.5	46593.320	1.5
5973.6218	6.00	-1.94	86965.450	2.0	88639.020	1.0
5973.7503	17.00	-1.03	100185.426	2.5	101858.960	2.5
5974.6929	27.00	-3.53	47524.470	4.5	49197.740	4.5
5975.0856	6.00	-4.37	87837.740	2.0	89510.900	3.0
5976.1501	7.00	-2.75	111165.158	1.5	112838.020	1.5
5976.2643	6.00	-2.53	86519.470	1.0	88192.300	1.0
5976.3001	10.01	-2.27	301855.710	2.5	303528.530	3.5
5976.3358	28.01	-3.04	134271.590	4.5	135944.400	3.5
5976.7646	6.00	-4.80	87837.740	1.0	89510.430	2.0
5976.7646	6.00	-3.46	87837.740	2.0	89510.430	2.0
5976.8182	13.00	-1.89	44921.275	1.5	46593.950	2.5
5977.1219	15.01	-1.09	103630.600	2.0	105303.190	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
5977.3041	10.00	-2.37	168924.651	2.0	170597.190	2.0
5977.4435	7.01	-3.26	209737.970	3.0	211410.470	3.0
5977.8367	14.00	-.82	59032.140	2.0	60704.530	3.0
5978.1942	14.00	-.44	60704.530	3.0	62376.820	3.0
5978.5159	18.00	-3.16	124381.010	2.0	126053.210	2.0
5978.5517	11.00	-1.10	37296.320	.5	38968.510	.5
5978.7304	14.00	-1.73	62349.930	2.0	64022.070	3.0
5979.0702	13.00	-2.84	44921.275	1.5	46593.320	1.5
5979.3383	22.00	-3.67	47187.540	2.0	48859.510	1.0
5980.3756	22.00	-3.84	39785.940	4.0	41457.620	3.0
5980.5545	6.00	-3.21	84851.530	1.0	86523.160	0.0
5981.0196	15.00	-3.52	77843.900	2.5	79515.400	3.5
5981.2987	7.00	-2.58	111198.848	.5	112870.270	.5
5981.3775	6.00	-3.78	86912.860	1.0	88584.260	2.0
5981.4848	14.00	-2.05	62349.930	2.0	64021.300	2.0
5981.5564	6.00	-2.17	86965.450	2.0	88636.800	2.0
5982.1935	17.00	-.97	99200.382	3.5	100871.554	3.5
5983.1673	11.00	-.80	37297.610	1.5	38968.510	.5
5983.1673	18.01	-4.15	210527.100	2.5	212198.000	3.5
5983.4288	17.00	0.00	99200.382	3.5	100871.209	4.5
5983.6006	7.00	-2.81	105143.680	2.5	106814.459	2.5
5983.7189	8.00	-.91	105912.043	1.0	107582.789	1.0
5983.7189	8.00	-.43	105912.043	1.0	107582.789	2.0
5983.7189	8.00	-2.09	105912.043	2.0	107582.789	1.0
5983.7189	8.00	-.91	105912.043	2.0	107582.789	2.0
5983.7189	8.00	-.16	105912.043	2.0	107582.789	3.0
5983.7189	8.00	-.79	105912.043	0.0	107582.789	1.0
5983.7905	20.00	-2.60	47006.194	2.0	48676.920	2.0
5983.7905	20.00	-1.70	47006.194	2.0	48676.920	1.0
5983.7905	20.00	-3.97	47006.194	2.0	48676.920	3.0
5984.0985	20.00	-1.69	47006.280	3.0	48676.920	2.0
5984.0985	20.00	-2.43	47006.280	3.0	48676.920	3.0
5984.5284	20.00	-1.37	47006.400	4.0	48676.920	3.0
5984.6000	15.00	-1.90	76173.400	3.5	77843.900	2.5
5984.6860	14.00	-1.09	59034.988	3.0	60705.464	3.0
5986.0513	26.00	-1.12	49558.500	4.0	51228.595	5.0
5986.1767	22.00	-4.56	44162.440	4.0	45832.500	5.0
5986.3919	15.01	-1.78	127900.400	0.0	129570.400	1.0
5986.6069	26.02	-2.81	198333.760	6.0	200003.700	7.0
5987.4208	14.00	-3.90	60487.103	1.0	62156.816	2.0
5987.7184	28.01	-4.48	134286.380	4.5	135956.010	5.5
5987.8619	18.01	-.90	204585.640	2.5	206255.230	2.5
5988.0771	28.01	-4.89	121120.880	5.5	122790.410	4.5
5988.2457	14.00	-1.16	48264.292	3.0	49933.775	3.0
5988.2922	14.00	-.89	62349.930	2.0	64019.400	3.0
5988.6868	6.00	-3.26	87762.120	3.0	89431.480	2.0
5988.9380	10.00	-1.38	170585.040	1.0	172254.330	0.0
5989.0456	6.00	-4.36	87762.220	2.0	89431.480	2.0
5989.4762	6.00	-1.72	86523.160	0.0	88192.300	1.0
5989.8351	28.01	-4.74	121178.560	3.5	122847.600	3.5
5990.4560	17.00	-1.32	97739.040	.5	99407.907	.5
5990.5529	28.01	-4.72	119656.250	3.5	121325.090	2.5
5991.9173	6.00	-3.06	86491.410	1.0	88159.870	0.0
5992.0573	14.00	-.46	59037.043	4.0	60705.464	3.0
5992.7074	6.00	-2.66	87763.240	3.0	89431.480	2.0
5993.0667	10.00	-1.42	169976.740	0.0	171644.880	1.0
5993.0667	14.00	-.64	62519.660	2.0	64187.800	3.0
5993.2176	26.00	-4.16	45509.112	1.0	47177.210	1.0
5993.7853	6.00	-.31	84851.530	1.0	86519.470	1.0
5994.2525	18.00	-.48	123815.530	1.0	125483.340	2.0
5996.5896	24.00	-3.32	37244.170	4.0	38911.330	3.0
5996.9493	28.01	-4.35	121180.540	4.5	122847.600	3.5
5997.5681	26.00	-4.03	47960.973	4.0	49627.861	4.0
5997.8452	26.00	-3.86	35379.189	5.0	37046.000	4.0
5998.5577	18.00	-4.18	123372.987	2.0	125039.600	1.0
5999.6125	29.01	-2.34	136336.880	1.0	138003.200	2.0
6000.4407	22.00	-.92	41917.050	4.0	43583.140	3.0
6002.7899	17.00	-2.29	99200.382	3.5	100865.820	2.5
6002.8908	28.01	-4.56	133735.260	2.5	135400.670	3.5
6003.1070	6.00	-4.43	87633.750	2.0	89299.100	3.0
6005.9922	10.00	-.68	170597.190	2.0	172261.740	1.0
6007.2553	22.00	-2.02	37976.780	2.0	39640.980	3.0
6007.3997	21.00	-1.55	36515.760	1.5	38179.920	1.5
6007.7607	7.01	-.39	209737.970	3.0	211402.030	4.0
6007.9774	7.00	-1.54	111143.567	.5	112807.567	.5
6008.6996	18.01	.01	200880.520	3.5	202544.320	2.5
6011.4093	6.00	-3.35	87718.560	1.0	89381.610	0.0
6011.5178	23.02	-4.19	160879.980	4.5	162543.000	5.5
6012.4216	29.01	-4.45	114000.000	3.0	115662.770	4.0
6012.7073	14.00	.27	57372.297	2.0	59034.988	3.0
6013.1811	9.00	-1.48	128712.300	1.5	130374.860	1.5
6013.3981	23.00	-6.76	14910.040	3.5	16572.540	3.5
6013.5066	18.01	-4.05	201345.220	1.5	203007.690	1.5
6013.7309	26.00	-3.39	45509.112	1.0	47171.520	0.0
6014.1940	14.00	-2.31	62954.460	3.0	64616.740	2.0
6014.4183	17.00	-2.94	95597.593	.5	97259.811	1.5
6015.8587	12.00	-.70	59342.510	1.0	61004.330	1.0
6015.8587	12.00	-1.87	59342.510	2.0	61004.330	1.0
6015.8587	12.00	-.39	59342.510	1.0	61004.330	2.0
6015.8587	12.00	-.57	59342.510	0.0	61004.330	1.0
6015.8587	12.00	-.87	59342.510	2.0	61004.330	2.0
6015.8587	12.00	.05	59342.510	2.0	61004.330	3.0
6015.9311	8.01	-2.18	254481.500	3.5	256143.300	3.5
6016.0072	20.00	-2.00	47015.141	3.0	48676.920	2.0
6016.1483	14.00	-3.65	62955.000	2.0	64616.740	2.0
6017.5244	25.00	-4.67	47753.990	2.5	49415.350	2.5
6017.8142	29.01	-2.58	134675.600	2.0	136336.880	1.0
6019.4809	14.00	-2.96	62985.960	1.0	64646.780	2.0
6019.6259	28.01	-3.18	135901.960	2.5	137562.740	3.5
6020.4271	26.00	-4.88	49558.500	4.0	51219.059	3.0
6020.7860	14.00	-2.24	62986.320	2.0	64646.780	2.0
6020.7933	14.00	-2.24	60496.358	2.0	62156.816	2.0
6020.9310	17.00	-.96	100185.220	1.5	101845.640	1.5
6021.0434	10.00	-1.60	168924.651	2.0	170585.040	1.0
6021.1305	10.00	-4.46	169488.415	1.0	171148.780	0.0
6021.3227	14.00	-1.78	57450.580	3.0	59110.892	2.0
6021.5476	24.00	-4.49	53011.650	1.0	54671.900	1.0
6021.8559	7.00	-1.07	111285.644	1.5	112945.809	2.5
6022.7084	18.01	-1.77	204585.640	2.5	206245.570	3.5
6023.8080	12.00	-.83	59400.763	3.0	61060.390	2.0
6023.8080	12.00	-2.15	59400.763	2.0	61060.390	2.0
6023.8697	22.00	-4.32	44233.650	3.0	45893.260	3.0
6024.0875	6.00	-1.60	86965.450	2.0	88625.000	3.0
6024.1346	26.00	-3.60	45061.287	3.0	46720.824	4.0
6024.7082	14.00	-1.58	57450.580	3.0	59109.959	3.0
6024.9588	28.01	-4.84	129474.270	3.5	131133.580	2.5
6024.9914	7.00	.13	111165.158	1.5	112824.459	2.5
6025.5325	26.00	-3.16	50045.900	2.0	51705.052	2.0
6026.6295	6.00	-1.16	86956.160	1.0	88615.010	1.0
6027.2362	10.00	-1.11	169814.630	2.0	171473.313	2.0
6027.5378	13.01	-2.13	144638.900	2.0	146297.500	1.0
6027.5378	13.01	-2.61	144638.900	1.0	146297.500	1.0
6027.9485	7.00	-2.76	105119.850	1.5	106778.337	1.5
6028.2394	7.00	-1.31	110194.654	1.5	111853.061	1.5
6028.5120	26.00	-4.17	55124.974	3.0	56783.306	3.0
6028.5520	7.00	-.34	110247.288	3.5	111905.609	2.5
6028.9192	14.00	-2.52	62226.390	1.0	63884.610	1.0
6029.6464	28.01	-3.28	134286.380	4.5	135944.400	3.5
6031.6690	7.00	-1.22	111143.567	.5	112801.031	1.5
6032.1203	28.01	-4.47	133922.910	4.5	135580.250	4.5
6032.2660	14.00	-1.45	63225.500	2.0	64882.800	2.0
6032.3387	12.00	-2.97	59403.110	1.0	61060.390	2.0
6033.3618	7.00	-2.88	111213.271	1.5	112870.270	.5
6034.0609	26.00	-2.70	49804.900	3.0	51461.707	4.0
6034.6692	15.00	-4.42	65156.400	1.5	66813.040	1.5
6035.2157	18.00	-1.50	123826.850	2.0	125483.340	2.0
6035.5800	28.01	-3.81	116786.420	.5	118442.810	1.5
6035.7257	17.00	-1.28	100202.610	1.5	101858.960	2.5
6035.8715	18.00	-.26	123826.850	2.0	125483.160	3.0
6035.9079	22.00	-4.56	42018.010	5.0	43674.310	4.0
6036.4911	18.01	-4.71	201351.550	2.5	203007.690	1.5
6037.5483	18.00	-1.91	123826.850	2.0	125482.700	3.0
6037.5847	29.01	-1.01	135958.460	1.0	137614.300	0.0
6037.8764	14.00	-4.40	62596.320	2.0	64252.080	2.0
6038.3506	26.00	-1.60	49804.900	3.0	51460.530	3.0
6038.4600	13.01	-.49	144641.900	0.0	146297.500	1.0
6038.9743	7.00	-.96	111271.596	.5	112927.055	1.5
6039.3354	16.00	-3.08	80181.440	3.0	81836.800	2.0
6039.3354	16.00	-1.54	80181.440	3.0	81836.800	3.0
6039.3354	16.00	-.47	80181.440	3.0	81836.800	4.0
6040.0287	6.00	-1.24	84851.530	1.0	86506.700	2.0
6041.7444	8.01	-2.82	254481.500	3.5	256136.200	4.5
6042.4528	18.00	-3.86	123468.034	1.0	125122.540	0.0
6043.6837	17.00	-1.96	98693.013	3.5	100347.182	2.5
6044.4109	16.00	-1.54	80182.830	2.0	81836.800	2.0
6044.4109	16.00	-.63	80182.830	2.0	81836.800	3.0
6044.4401	17.00	-3.24	98693.220	2.5	100347.182	2.5
6044.8495	28.01	-2.86	129479.730	1.5	131133.580	2.5
6044.9957	10.01	-4.05	301855.710	2.5	303509.520	2.5
6045.2552	10.00	-3.23	168924.651	2.0	170578.390	1.0
6046.4106	22.00	-3.90	39715.437	3.0	41368.860	4.0
6046.7507	28.01	-4.76	117662.110	1.5	119315.440	2.5
6048.7994	10.01	-3.32	301855.710	2.5	303508.480	1.5
6049.3485	14.00	-.82	62231.990	2.0	63884.610	1.0
6049.6120	17.00	-1.98	96731.172	3.5	98383.720	3.5
6049.6413	6.00	-3.49	86185.200	2.0	87837.740	1.0
6049.6413	6.00	-1.54	86185.200	2.0	87837.740	2.0
6049.7878	10.01	-1.97	301948.000	1.5	303600.500	2.5
6050.0807	6.00	-1.24	83747.390	2.0	85399.810	2.0
6050.6738	17.00	-2.46	96731.172	3.5	98383.430	4.5
6050.7398	28.01	-3.16	134249.720	1.5	135901.960	2.5
6051.1793	16.00	-.81	80184.680	1.0	81836.800	2.0
6051.4063	18.00	-1.31	116999.389	2.0	118651.447	1.0
6052.3333	26.00	-3.19	45726.104	5.0	47377.909	4.0
6053.4730	22.00	-2.04	36200.940	5.0	37852.434	4.0
6054.6608	27.00	-3.65	46375.170	1.5	48026.340	.5
6054.7708	26.02	-4.16	200504.990	3.0	202156.130	2.0
6055.1742	17.00	-2.90	97703.640	1.5	99354.670	1.5
6055.8711	18.00	-3.00	123832.500	3.0	125483.340	2.0
6056.2784	17.00	-2.01	97703.941	2.5	99354.670	1.5
6056.4215	28.01	-4.03	129474.270	3.5	131124.960	3.5
6056.4362	14.00	-2.76	61574.814	3.0	63225.500	2.0
6056.5315	18.00	-1.94	123832.500	3.0	125483.160	3.0
6057.2471	26.00	-2.72	50186.814	2.0	51837.279	3.0
6057.5958	28.01	-3.62	133929.880	3.5	135580.250	4.5
6058.1501	12.00	-1.29	58477.020	1.0	60127.239	2.0
6058.1978	7.00	.29	111260.873	3.5	112911.079	3.5
6058.2198	18.00	-1.71	123832.500	3.0	125482.700	3.0
6058.2198	18.00	-.57	123832.500	3.0	125482.700	4.0
6058.5466	9.00	-2.22	128122.719	1.5	129772.830	2.5
6058.5870	24.00	-3.52	42438.820	2.0	44088.920	1.0
6058.7705	14.00	-1.65	59056.508	1.0	60706.558	1.0
6058.8256	10.00	-.99	169839.450	1.0	171489.485	1.0
6059.7217	14.00	.09	57468.239	2.0	59118.030	3.0
6059.8466	7.00	-.68	111260.873	3.5	112910.630	2.5
6060.5703	6.00	-1.92	86965.450	2.0	88615.010	1.0
6060.8679	12.00	-1.76	58477.760	2.0	60127.239	2.0
6061.1215	28.01	-4.30	134294.990	2.5	135944.400	3.5
6061.4154	14.00	-.19	61305.670	1.0	62955.000	2.0
6061.5661	28.00	-3.69	49185.146	2.0	50834.435	2.0
6062.2241	28.01	-2.84	134252.850	3.5	135901.960	2.5
6063.6581	14.00	-.38	61841.940	2.0	63490.660	3.0
6064.1363	6.00	-1.22	86956.160	1.0	88604.750	2.0
6064.5409	9.02	-.40	442278.930	2.5	443927.410	3.5
6065.9760	29.01	-1.53	136754.110	2.0	138402.200	3.0
6068.0636	17.00	-2.17	95706.534	1.5	97354.057	1.5
6068.1483	14.00	-1.14	61841.940	2.0	63489.440	2.0
6068.3177	17.00	-.87	95612.357	1.5	97259.811	1.5
6068.5167	6.00	-1.02	83752.410	1.0	85399.810	2.0
6068.6640	7.00	-.77	111165.158	1.5	112812.518	2.5
6068.9956	28.01	-3.16	134254.690	1.5	135901.960	2.5
6069.7693	14.00	-1.75	62596.320	2.0	64243.380	2.0
6070.3849	28.00	-2.70	49185.146	2.0	50832.039	3.0
6070.5802	6.00	-3.11	86449.190	3.0	88096.030	2.0
6071.4650	28.01	-3.83	116732.510	2.5	118379.110	2.5
6071.8707	23.00	-4.46	35379.110	3.5	37025.600	3.5
6072.5346	6.00	-3.09	87735.300	1.0	89381.610	0.0
6073.4199	14.00	-1.15	61841.940	2.0	63488.010	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6073.6044	19.00	-1.60	31765.370	.5	33411.390	1.5
6073.6782	29.01	-3.71	146415.700	2.0	148061.700	3.0
6074.0103	28.01	-3.19	134256.050	2.5	135901.960	2.5
6074.6377	6.00	-1.15	86912.860	1.0	88558.600	1.0
6074.9146	10.00	-1.13	169843.820	2.0	171489.485	1.0
6075.4056	26.00	-2.75	53733.310	3.0	55378.842	2.0
6075.5976	27.00	-4.31	48201.600	3.5	49847.080	2.5
6075.6308	18.00	-2.25	124649.549	3.0	126295.020	3.0
6075.8930	14.00	-2.32	60704.530	3.0	62349.930	2.0
6076.0739	18.00	-2.35	124649.549	3.0	126294.900	3.0
6076.0739	18.00	-.94	124649.549	3.0	126294.900	4.0
6076.4469	14.00	-1.43	62376.820	3.0	64022.070	3.0
6076.8495	14.00	-.92	59917.336	2.0	61562.477	3.0
6077.1488	23.00	-4.85	36461.260	2.5	38106.320	2.5
6077.3335	28.00	-2.84	49032.589	2.0	50677.599	3.0
6077.8877	19.00	-1.90	31765.370	.5	33410.230	.5
6077.9320	7.00	-.07	109856.520	1.5	111501.368	1.5
6078.3681	6.00	-2.96	86416.550	1.0	88061.280	1.0
6079.2921	14.00	-2.45	62376.820	3.0	64021.300	2.0
6079.7358	22.00	-3.18	41823.190	3.0	43467.550	2.0
6079.9577	8.01	-2.39	254481.500	3.5	256125.800	2.5
6079.9946	28.01	-4.50	113225.060	.5	114869.350	1.5
6080.9932	19.00	-1.79	32227.440	.5	33871.460	.5
6081.0746	17.00	-2.51	100589.312	2.5	102233.310	2.5
6083.1799	26.00	-3.85	47960.973	4.0	49604.402	5.0
6083.2799	26.00	-4.51	46888.494	2.0	48531.896	3.0
6083.3909	14.00	-.44	60706.558	1.0	62349.930	2.0
6083.6945	17.00	-1.67	100202.350	.5	101845.640	1.5
6083.6945	14.00	-.60	62376.820	3.0	64020.110	4.0
6084.3499	22.00	-2.80	39526.890	2.0	41170.003	3.0
6084.6572	17.00	-1.58	100202.610	1.5	101845.640	1.5
6084.8016	12.00	-.38	54248.809	0.0	55891.800	1.0
6085.6202	26.00	-4.18	46889.126	4.0	48531.896	3.0
6086.3241	14.00	-1.70	62376.820	3.0	64019.400	3.0
6086.9431	14.00	-2.00	61562.477	3.0	63204.890	2.0
6086.9578	7.00	-1.88	111165.158	1.5	112807.567	.5
6087.1357	26.00	-4.96	49460.876	5.0	51103.237	5.0
6088.1774	24.00	-2.95	42438.820	2.0	44080.900	2.0
6088.8819	6.00	-2.17	87708.210	2.0	89350.100	2.0
6089.1416	6.00	-1.56	86185.200	2.0	87827.020	2.0
6089.4383	6.00	-1.19	86185.200	2.0	87826.940	3.0
6089.5346	12.00	.09	54250.086	1.0	55891.800	1.0
6089.9575	8.01	-.97	254481.500	3.5	256123.100	3.5
6090.0652	28.00	-2.98	42621.048	3.0	44262.619	2.0
6090.3285	15.00	-.80	76192.300	1.5	77833.800	1.5
6090.6588	7.00	-.30	111285.644	1.5	112927.055	1.5
6090.6996	30.02	-2.94	260878.800	3.0	262520.200	2.0
6090.8852	6.00	-1.50	86965.450	2.0	88606.800	3.0
6090.8852	19.00	-1.49	32230.110	1.5	33871.460	.5
6092.1471	28.01	-3.57	129474.270	3.5	131115.280	4.5
6092.8154	25.00	-4.55	47774.520	3.5	49415.350	2.5
6093.4282	7.00	-.72	110212.396	2.5	111853.061	1.5
6094.4125	6.00	-3.00	86519.470	1.0	88159.870	0.0
6095.1557	30.02	-3.95	260805.900	2.0	262446.100	3.0
6096.3079	28.01	-3.66	134262.070	3.5	135901.960	2.5
6096.3451	6.00	-.63	84851.530	1.0	86491.410	1.0
6098.5020	6.00	-1.08	86965.450	2.0	88604.750	2.0
6098.9783	7.00	-1.07	111198.848	.5	112838.020	1.5
6099.3206	15.00	-2.55	66544.120	2.5	68183.200	1.5
6099.3429	12.00	.31	54252.726	2.0	55891.800	1.0
6100.0612	7.00	-3.18	105119.850	1.5	106758.731	.5
6100.3627	26.00	-3.77	54266.760	5.0	55905.560	4.0
6100.7349	29.01	-3.82	146427.600	1.0	148066.300	2.0
6101.2934	6.00	-.07	83761.260	3.0	85399.810	2.0
6102.2245	29.01	-4.73	146423.400	4.0	148061.700	3.0
6103.6402	23.02	-3.33	162760.280	4.5	164398.200	4.5
6103.9010	9.02	-1.41	489494.530	3.5	491132.380	3.5
6104.8329	29.01	-2.50	135135.600	1.0	136773.200	1.0
6104.8329	13.01	-.69	144638.900	2.0	146276.500	3.0
6104.8329	13.01	-1.59	144638.900	3.0	146276.500	3.0
6105.2281	14.00	-1.11	62156.816	2.0	63794.310	2.0
6105.2430	22.00	-.73	42107.060	4.0	43744.550	4.0
6105.2803	7.00	-1.75	111271.596	.5	112909.076	1.5
6105.5152	14.00	.60	60010.458	1.0	61647.875	2.0
6105.6159	6.00	-1.39	88135.810	3.0	89773.200	3.0
6105.6159	14.00	-2.66	62226.390	1.0	63863.780	2.0
6106.2312	17.00	-1.52	100166.217	3.5	101803.442	2.5
6106.3990	28.01	-4.20	114874.880	2.5	116512.060	3.5
6106.8466	28.01	-4.09	132225.150	1.5	133862.210	1.5
6106.8466	6.00	-2.29	88135.810	3.0	89772.870	2.0
6107.0705	15.04	-.81	466893.000	2.5	468530.000	2.5
6107.0705	15.04	.49	466893.000	2.5	468530.000	3.5
6107.0705	15.04	.33	466893.000	1.5	468530.000	2.5
6107.4361	14.00	.41	60010.458	1.0	61647.360	1.0
6107.6674	9.02	.26	489494.530	3.5	491131.370	4.5
6107.7420	29.01	.12	136765.380	4.0	138402.200	3.0
6108.1152	6.00	-1.98	87713.380	3.0	89350.100	2.0
6108.1750	14.00	-2.10	62156.816	2.0	63793.520	1.0
6110.0565	6.00	-1.11	86912.860	1.0	88549.060	1.0
6110.3179	9.02	-4.24	466191.030	2.5	467827.160	1.5
6110.9154	14.00	-2.94	62450.400	1.0	64086.370	1.0
6111.2778	7.00	-.23	111165.158	1.5	112801.031	1.5
6112.5969	14.00	-.04	59221.110	0.0	60856.630	1.0
6112.6715	15.01	-1.08	127934.900	1.0	129570.400	1.0
6114.9149	13.01	-1.05	146497.800	3.0	148132.700	2.0
6115.2889	19.00	-1.32	32648.350	.5	34283.150	1.5
6115.6630	6.00	-1.96	86185.200	2.0	87819.900	3.0
6115.8239	7.00	-3.11	105143.680	2.5	106778.337	1.5
6115.9249	24.00	-4.83	47189.870	4.0	48824.500	4.0
6116.2242	24.00	-4.39	53011.650	1.0	54646.200	0.0
6116.2617	6.00	-1.56	87002.260	3.0	88636.800	2.0
6116.7107	19.00	-1.62	32648.350	.5	34282.770	.5
6116.8604	24.00	-4.06	53037.520	2.0	54671.900	1.0
6117.5342	18.02	-3.85	207532.150	1.0	209166.350	0.0
6117.9085	55.00	-1.29	26047.860	0.0	27682.406	0.0
6118.2680	7.00	-.93	111204.016	2.5	112838.020	1.5
6118.2830	28.01	-3.18	135901.960	2.5	137535.960	3.5
6118.7960	10.00	-1.68	169839.450	1.0	171473.313	2.0
6118.9570	26.00	-.32	49558.500	4.0	51192.320	4.0
6119.7736	17.00	-2.91	100169.840	3.5	101803.442	2.5
6120.4105	17.00	-1.98	100170.010	2.5	101803.442	2.5
6121.3923	22.00	-3.76	47281.900	3.0	48915.070	2.0
6121.7747	17.00	-.61	100589.312	2.5	102222.380	3.5
6122.2020	7.00	-2.32	110220.107	1.5	111853.061	1.5
6122.3295	25.00	-2.42	47782.430	1.5	49415.350	2.5
6122.5170	14.00	-1.80	62718.990	0.0	64351.860	1.0
6122.9332	14.00	-2.29	61303.381	3.0	62936.140	3.0
6123.0607	10.00	-4.36	170578.390	1.0	172211.115	2.0
6123.5296	13.01	-.32	144781.900	3.0	146414.500	3.0
6123.5296	13.01	.94	144781.900	3.0	146414.500	4.0
6123.5296	13.01	-.30	144781.900	3.0	146414.500	4.0
6123.6046	28.01	-3.50	132225.150	1.5	133857.730	.5
6123.9459	18.00	-2.99	115366.900	1.0	116999.389	2.0
6124.2648	7.00	-.03	111271.596	.5	112904.000	.5
6124.4561	17.00	.38	95706.534	1.5	97338.887	2.5
6124.4674	9.00	-1.92	128140.480	2.5	129772.830	2.5
6125.5932	22.00	-3.25	44375.570	5.0	46007.620	4.0
6125.9948	12.00	-.93	54676.438	3.0	56308.381	2.0
6126.3176	14.00	-4.23	61304.283	2.0	62936.140	3.0
6126.5692	10.00	-3.78	169516.990	1.0	171148.780	0.0
6126.5692	14.00	-1.12	62231.990	2.0	63863.780	2.0
6126.5804	17.00	-.86	95313.749	1.5	96945.536	2.5
6127.0160	12.00	-.28	54676.710	3.0	56308.381	2.0
6127.0160	12.00	-2.26	54676.710	2.0	56308.381	2.0
6127.5080	6.00	-2.09	87718.560	1.0	89350.100	2.0
6128.3569	26.00	-2.87	32133.977	2.0	33765.291	2.0
6128.3719	10.01	-3.99	302192.920	4.5	303824.230	3.5
6129.1984	14.00	-2.13	61305.050	3.0	62936.140	3.0
6129.3300	7.00	-.85	111060.905	.5	112691.960	.5
6129.6457	28.00	-.70	49158.529	5.0	50789.500	4.0
6129.9125	6.00	-1.59	86912.860	1.0	88543.760	0.0
6130.3636	14.00	-3.99	62985.960	1.0	64616.740	2.0
6130.5892	10.00	-4.44	170578.390	1.0	172209.110	1.0
6130.8523	23.00	-3.73	36611.810	2.5	38242.460	3.5
6131.1907	22.00	-3.31	45832.500	5.0	47463.060	4.0
6131.7171	14.00	-3.33	62986.320	2.0	64616.740	2.0
6131.9241	7.00	-.62	111260.873	3.5	112891.238	3.5
6133.0338	14.00	-1.71	61595.430	1.0	63225.500	2.0
6133.6734	24.00	-2.85	42438.820	2.0	44068.720	3.0
6133.9106	10.00	-2.47	168967.353	1.0	170597.190	2.0
6135.2055	10.00	-.89	169843.820	2.0	171473.313	2.0
6135.4539	14.00	-.60	61306.713	4.0	62936.140	3.0
6135.6762	17.00	-1.30	100589.312	2.5	102218.680	2.5
6136.0980	18.00	-.15	121161.356	1.0	122790.612	0.0
6136.6478	6.00	-2.53	86506.700	2.0	88135.810	3.0
6136.8061	17.00	-2.57	100589.312	2.5	102218.380	1.5
6137.3636	28.01	-3.01	133929.880	3.5	135558.800	4.5
6137.4013	28.01	-4.98	129474.270	3.5	131103.180	2.5
6137.6273	9.00	-1.07	128520.220	.5	130149.070	.5
6138.7957	6.00	-2.37	86912.860	1.0	88541.400	2.0
6138.9465	6.00	-2.99	87819.900	3.0	89448.400	3.0
6139.0219	14.00	-3.04	62141.800	1.0	63770.280	1.0
6139.0596	23.00	-4.33	37498.760	2.5	39127.230	1.5
6139.3235	6.00	-3.18	87820.000	4.0	89448.400	3.0
6140.4548	6.00	-2.36	86956.160	1.0	88584.260	2.0
6140.4548	15.00	-4.05	78133.500	2.5	79761.600	2.5
6142.7185	15.00	-2.77	78069.000	1.5	79696.500	1.5
6142.7185	6.00	-2.69	87819.900	3.0	89447.400	2.0
6143.4320	12.00	-1.86	58476.689	0.0	60104.000	1.0
6143.4735	29.01	-.91	137614.300	0.0	139241.600	1.0
6144.6818	12.00	-1.38	58477.020	1.0	60104.000	1.0
6144.8102	26.00	-3.18	45509.112	1.0	47136.058	2.0
6144.9839	10.00	-1.65	164285.882	0.0	165912.782	1.0
6147.2472	26.00	-4.07	46410.366	1.0	48036.667	2.0
6147.4779	12.00	-1.16	58477.760	2.0	60104.000	1.0
6147.5156	22.00	-1.92	38159.710	3.0	39785.940	4.0
6148.0222	14.00	-4.14	62669.164	3.0	64295.260	3.0
6148.0789	14.00	-2.76	62669.179	4.0	64295.260	3.0
6148.7634	29.01	-3.70	146402.900	5.0	148028.800	5.0
6149.1037	18.00	-.92	119566.110	3.0	121191.920	2.0
6149.1794	9.00	-1.58	128523.280	1.5	130149.070	.5
6149.8981	6.00	-.42	82251.710	0.0	83877.310	1.0
6150.1629	24.00	-4.49	48558.570	2.0	50184.100	2.0
6151.0711	28.01	-2.69	135652.930	1.5	137278.220	1.5
6152.2219	7.00	-.24	111285.644	1.5	112910.630	2.5
6153.0397	28.01	-3.09	135901.960	2.5	137526.730	2.5
6153.1192	7.00	-.46	111213.271	1.5	112838.020	1.5
6153.5699	22.00	-1.78	41958.510	2.0	43583.140	3.0
6154.0851	28.00	-1.34	47328.850	2.0	48953.344	1.0
6154.7823	18.01	-.69	201720.670	1.5	203344.980	1.5
6155.3886	19.00	-2.87	32227.440	.5	33851.590	1.5
6155.6918	10.00	-4.85	170585.040	1.0	172209.110	1.0
6156.2452	18.00	-3.95	119444.880	2.0	121068.804	1.0
6156.7153	12.02	-1.63	582839.700	3.0	584463.500	4.0
6156.9049	28.01	-4.13	118379.110	2.5	120002.860	3.5
6157.0565	9.02	-1.12	442147.190	2.5	443770.900	3.5
6158.0427	28.01	-2.58	129479.730	1.5	131103.180	2.5
6158.1110	7.00	-1.61	111285.644	1.5	112909.076	1.5
6158.6117	22.00	-4.33	41457.620	3.0	43080.920	2.0
6158.8393	23.00	-6.16	14949.300	4.5	16572.540	3.5
6159.0290	9.02	-4.72	466982.860	2.5	468606.050	3.5
6159.0670	24.01	-4.97	51943.040	4.5	53566.220	3.5
6159.1429	18.00	-.75	122514.290	1.0	124137.450	2.0
6159.1847	18.00	-1.80	121011.979	1.0	122635.128	2.0
6160.2055	28.01	1.01	133715.130	4.5	135338.010	5.5
6160.7370	6.00	-2.21	87002.260	3.0	88625.000	3.0
6161.1546	28.01	-4.83	121190.340	4.5	122812.970	3.5
6161.6711	18.00	-.52	119847.810	1.0	121470.304	0.0
6162.6738	28.01	-1.84	130174.030	1.5	131796.260	2.5
6164.5358	23.00	-4.17	36989.200	2.5	38610.940	3.5
6164.5358	10.00	-3.53	170585.040	1.0	172206.780	2.0
6165.2581	28.01	-4.78	135901.960	2.5	137523.510	3.5
6165.3836	14.00	-.48	61304.283	2.0	62925.800	1.0
6165.5243	19.00	-3.57	32230.110	1.5	33851.590	1.5
6165.6003	6.00	-3.89	87826.940	3.0	89448.400	3.0
6165.6764	19.00	-2.61	32230.110	1.5	33851.550	2.5
6165.7144	9.00	-1.46	128520.220	.5	130141.650	1.5
6165.9045	6.00	-4.12	87827.020	2.0	89448.400	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6166.2164	20.00	-1.29	46303.649	2.0	47924.947	3.0
6166.2506	10.00	.16	165828.175	2.0	167449.464	1.0
6167.3157	17.00	-.07	99269.121	2.5	100890.130	2.5
6167.5783	28.01	-1.93	103025.580	2.5	104646.520	3.5
6168.3622	17.00	.88	99269.121	2.5	100889.855	3.5
6169.1654	26.00	-4.38	46600.800	1.0	48221.323	1.0
6169.4052	6.00	-3.88	87826.940	3.0	89447.400	2.0
6169.4700	7.00	-2.63	111204.016	2.5	112824.459	2.5
6169.7098	6.00	-3.45	87827.020	2.0	89447.400	2.0
6171.9190	15.01	-2.24	127950.600	2.0	129570.400	1.0
6172.4144	18.02	-4.28	207532.150	1.0	209151.820	2.0
6173.8095	7.00	-3.43	110286.305	2.5	111905.609	2.5
6174.8543	28.01	-4.57	129474.270	3.5	131093.300	4.5
6174.9268	7.00	.12	111326.798	2.5	112945.809	2.5
6175.1976	19.00	-1.17	31953.170	2.5	33572.110	1.5
6175.3882	19.00	-1.02	31953.170	3.5	33572.060	2.5
6175.3882	19.00	-2.32	31953.170	2.5	33572.060	2.5
6175.3959	20.00	-4.86	46306.059	3.0	47924.947	3.0
6175.6935	6.00	-1.31	86965.450	2.0	88584.260	2.0
6175.7316	29.01	-3.51	148631.200	3.0	150250.000	2.0
6176.6092	28.01	-3.72	135261.990	4.5	136880.560	4.5
6176.8382	29.01	-4.03	135135.600	1.0	136754.110	2.0
6177.3725	9.00	-.67	128523.280	1.5	130141.650	1.5
6177.4260	7.00	-1.55	111285.644	1.5	112904.000	.5
6177.4679	26.00	-4.25	46137.140	3.0	47755.485	3.0
6177.4870	28.01	-3.36	135944.400	3.5	137562.740	3.5
6177.5176	20.00	-.50	46303.649	2.0	47921.981	3.0
6177.8306	14.00	-.94	62226.390	1.0	63844.640	0.0
6177.9375	17.00	-2.92	100185.220	1.5	101803.442	2.5
6178.0978	10.00	-1.64	170851.320	1.0	172469.500	2.0
6178.4033	7.00	-2.18	104859.700	1.5	106477.800	.5
6179.7285	26.00	-4.66	52213.207	3.0	53830.960	3.0
6179.9348	14.00	-2.06	61303.381	3.0	62921.080	2.0
6180.7869	10.00	-3.83	170296.004	1.0	171913.480	0.0
6181.5741	28.01	-4.06	135901.960	2.5	137519.230	2.5
6182.2240	30.02	-3.99	260878.800	3.0	262495.900	4.0
6183.2181	10.00	-3.45	170585.040	1.0	172201.880	1.0
6183.3826	14.00	-3.08	61304.283	2.0	62921.080	2.0
6183.5087	14.00	-1.84	62156.816	2.0	63773.580	2.0
6183.7918	20.00	-.44	46308.257	2.0	47924.947	3.0
6184.6181	14.00	-.38	62156.816	2.0	63773.290	3.0
6184.7788	17.00	-1.88	95313.749	1.5	96930.181	.5
6184.9051	7.00	.16	111143.567	.5	112759.966	1.5
6185.2838	9.00	-3.05	128525.350	2.5	130141.650	1.5
6185.5556	16.00	-.44	76653.861	2.0	78270.090	1.0
6185.6933	16.00	-.74	76653.897	1.0	78270.090	1.0
6185.6933	16.00	-.74	76653.897	1.0	78270.090	0.0
6186.3173	14.00	-1.35	61305.050	3.0	62921.080	2.0
6186.5317	20.00	-.28	46306.059	3.0	47922.033	4.0
6186.7308	20.00	-1.35	46306.059	3.0	47921.981	3.0
6187.1864	16.00	-.01	76653.817	4.0	78269.620	3.0
6187.1979	12.00	-.72	59342.510	1.0	60958.310	2.0
6187.1979	12.00	-1.19	59342.510	2.0	60958.310	2.0
6187.2898	16.00	-.20	76653.844	3.0	78269.620	2.0
6187.2898	16.00	-.56	76653.844	3.0	78269.620	3.0
6187.3549	16.00	-.58	76653.861	2.0	78269.620	2.0
6187.3549	16.00	-1.58	76653.861	2.0	78269.620	3.0
6187.4927	16.00	-1.58	76653.897	1.0	78269.620	2.0
6187.5808	28.01	-4.06	133922.910	4.5	135538.610	5.5
6187.8490	17.00	-2.23	97739.040	.5	99354.670	1.5
6187.9255	14.00	-3.75	62935.760	3.0	64551.370	4.0
6188.1094	26.00	-4.75	53763.280	3.0	55378.842	2.0
6188.7951	16.00	-.71	76653.817	4.0	78269.200	4.0
6188.8027	16.00	.16	76653.819	5.0	78269.200	4.0
6188.8986	16.00	-1.88	76653.844	3.0	78269.200	4.0
6188.9215	17.00	-1.11	97739.320	1.5	99354.670	1.5
6189.0747	10.00	-3.80	170585.040	1.0	172200.350	0.0
6189.4043	14.00	-2.37	61198.036	0.0	62813.260	1.0
6190.1477	9.00	-2.24	128606.090	2.5	130221.120	1.5
6190.9221	17.00	-4.95	84120.263	2.5	85735.091	1.5
6191.0295	6.00	-3.36	87735.300	1.0	89350.100	2.0
6191.4550	28.00	-1.97	49174.811	4.0	50789.500	4.0
6191.9497	14.00	-2.48	62936.810	4.0	64551.370	4.0
6192.2949	6.00	-1.28	88096.030	2.0	89710.500	3.0
6192.4867	22.00	-2.69	39640.980	3.0	41255.400	4.0
6192.5634	17.00	-.68	95534.923	.5	97149.323	.5
6193.7949	10.00	-4.97	170597.190	2.0	172211.269	3.0
6194.1326	18.00	-1.41	122440.109	2.0	124054.100	3.0
6194.3860	10.00	-4.47	170597.190	2.0	172211.115	2.0
6195.1575	20,00	-1.35	46308.257	2.0	47921.981	3.0
6195.7104	7.01	-1.34	209673.650	2.0	211287.230	3.0
6196.4208	26.00	-3.66	49737.110	5.0	51350.505	4.0
6197.4387	55.00	-.26	26068.830	0.0	27682.400	0.0
6201.6292	22.00	-3.66	37690.320	5.0	39302.360	4.0
6201.8523	12.00	-1.58	56968.248	2.0	58580.230	1.0
6202.2833	28.01	-1.64	130184.390	2.5	131796.260	2.5
6202.8490	22.00	-2.85	36132.210	4.0	37743.933	3.0
6203.3994	6.00	-2.68	87819.900	3.0	89431.480	2.0
6204.0576	14.00	-2.96	56700.250	1.0	58311.659	0.0
6204.9086	7.00	-.66	111213.271	1.5	112824.459	2.5
6205.4902	10.00	-4.50	168967.353	1.0	170578.390	1.0
6206.8657	18.00	-1.64	123172.090	1.0	124782.770	1.0
6206.9427	26.00	-3.70	50456.790	3.0	52067.450	2.0
6207.0622	10.00	-2.64	170858.871	3.0	172469.500	2.0
6207.0622	10.00	-1.58	170858.871	3.0	172469.500	3.0
6207.0622	10.00	-1.44	170858.871	3.0	172469.500	3.0
6207.0622	10.00	-.14	170858.871	3.0	172469.500	4.0
6207.1354	19.00	.25	27397.100	2.5	29007.710	1.5
6207.7405	14.00	-.18	59034.988	3.0	60645.441	2.0
6208.3303	29.01	-4.38	146423.400	4.0	148033.700	4.0
6208.3304	12.00	.48	56968.218	3.0	58578.518	4.0
6208.7159	13.01	-.19	143170.000	1.0	144780.200	2.0
6209.7957	28.01	-3.70	133903.000	1.5	135512.920	2.5
6210.7988	6.00	-4.33	87837.740	1.0	89447.400	2.0
6210.7988	6.00	-4.29	87837.740	2.0	89447.400	2.0
6211.0689	10.00	-4.54	170597.190	2.0	172206.780	2.0
6211.1461	19.00	-.71	27398.140	1.5	29007.710	1.5
6211.8021	29.01	-2.82	146496.200	3.0	148105.600	4.0
6212.1881	15.00	.21	76045.900	2.5	77655.200	3.5

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
6212.5742	9.00	-2.69	128611.920	1.5	130221.120	1.5
6213.5395	28.01	-3.07	131834.940	2.5	133443.890	2.5
6213.7480	28.00	-2.39	42653.723	2.0	44262.619	2.0
6214.2347	6.00	-1.39	83791.040	2.0	85399.810	2.0
6214.4317	7.00	-.46	111198.848	.5	112807.567	.5
6214.9301	14.00	-1.51	62141.800	1.0	63750.390	1.0
6215.2701	7.00	-1.19	111204.016	2.5	112812.518	2.5
6216.4372	29.01	-3.35	118484.000	3.0	120092.200	2.0
6216.7968	10.00	-4.02	170597.190	2.0	172205.297	3.0
6217.3651	26.02	-4.25	198717.600	4.0	200325.560	4.0
6217.6821	7.00	-2.25	110245.183	.5	111853.061	1.5
6217.9258	10.00	-3.37	171489.485	1.0	173097.300	0.0
6218.2545	28.01	-3.24	135670.490	.5	137278.220	1.5
6218.5756	26.00	-2.72	31805.059	3.0	33412.706	3.0
6219.1984	14.00	-2.00	61597.404	3.0	63204.890	2.0
6219.5311	29.01	-3.38	148642.600	2.0	150250.000	2.0
6219.9181	12.00	-2.13	56968.218	3.0	58575.518	2.0
6219.9181	12.00	-.96	56968.218	3.0	58575.518	3.0
6220.0342	12.00	-.76	56968.248	2.0	58575.518	2.0
6220.0342	12.00	-.32	56968.248	2.0	58575.518	3.0
6220.0381	12.00	-.83	56968.218	3.0	58575.487	3.0
6220.1232	12.00	.15	56968.271	1.0	58575.518	2.0
6220.1541	12.00	-.03	56968.248	2.0	58575.487	3.0
6220.6147	21.00	-1.24	36572.800	2.5	38179.920	1.5
6221.0793	29.01	-4.91	146496.200	3.0	148103.200	3.0
6221.1954	28.01	-2.92	134294.990	2.5	135901.960	2.5
6221.5981	18.00	-1.87	123468.034	1.0	125074.900	2.0
6221.8536	12.02	-3.74	582747.300	2.0	584354.100	2.0
6221.9698	26.00	-4.92	54491.080	3.0	56097.850	3.0
6222.0665	14.00	-2.66	61598.145	2.0	63204.890	2.0
6222.9458	10.00	-2.21	170862.982	2.0	172469.500	2.0
6222.9458	10.00	-1.15	170862.982	2.0	172469.500	3.0
6222.9458	10.00	-.69	170862.982	2.0	172469.500	3.0
6223.7825	28.00	-3.02	42656.317	1.0	44262.619	2.0
6224.5653	8.01	-1.83	254481.500	3.5	256087.600	2.5
6224.6428	25.00	-4.59	43524.080	3.5	45130.160	4.5
6225.4568	9.02	-3.00	442147.190	2.5	443753.060	2.5
6225.6584	18.00	-1.07	120188.340	1.0	121794.158	0.0
6226.3680	7.00	-1.61	110299.974	2.5	111905.609	2.5
6227.2794	29.01	-2.74	146423.400	4.0	148028.800	5.0
6227.3415	14.00	-.42	62156.816	2.0	63762.200	3.0
6229.3747	14.00	.50	60042.500	0.0	61647.360	1.0
6230.3065	6.00	-3.90	86491.410	1.0	88096.030	2.0
6230.5161	18.00	-1.91	123468.034	1.0	125072.600	1.0
6230.6171	6.00	-.72	87002.260	3.0	88606.800	3.0
6230.6171	6.00	-3.68	87826.940	3.0	89431.480	2.0
6230.8501	28.01	-4.84	116838.330	1.5	118442.810	1.5
6230.9278	6.00	-3.05	87827.020	2.0	89431.480	2.0
6234.3977	12.00	-1.81	59400.763	2.0	61004.330	2.0
6234.3977	12.00	-.91	59400.763	2.0	61004.330	1.0
6234.3977	12.00	-.77	59400.763	3.0	61004.330	2.0
6234.3977	12.00	-2.66	59400.763	3.0	61004.330	2.0
6234.3977	12.00	-3.18	59400.763	2.0	61004.330	3.0
6234.3977	12.00	-1.85	59400.763	3.0	61004.330	3.0
6234.3977	12.00	-2.05	59400.763	3.0	61004.330	3.0
6234.3977	12.00	-.57	59400.763	4.0	61004.330	3.0
6235.2414	17.00	-2.31	95400.731	2.5	97004.081	1.5
6236.6029	18.00	-1.11	124692.020	2.0	126295.020	3.0
6236.7662	14.00	-.85	58893.400	3.0	60496.358	2.0
6237.0308	24.00	-3.53	48661.590	3.0	50264.480	3.0
6237.0697	18.00	-2.43	124692.020	2.0	126294.900	3.0
6237.4978	27.00	-1.92	46375.170	1.5	47977.940	.5
6237.6535	28.01	-4.76	134067.760	1.5	135670.490	.5
6237.9259	28.01	-2.68	135960.080	4.5	137562.740	3.5
6238.5877	6.00	-2.28	87002.260	3.0	88604.750	2.0
6238.7824	6.00	-3.13	86956.160	1.0	88558.600	1.0
6238.8096	17.00	.72	99269.121	2.5	100871.554	3.5
6239.7831	7.00	-.62	111198.848	.5	112801.031	1.5
6240.4959	9.02	-.32	442636.270	3.5	444238.270	4.5
6241.0997	12.00	.46	54706.536	1.0	56308.381	2.0
6241.5673	17.00	-4.44	97667.396	3.5	99269.121	2.5
6242.2532	10.00	-.44	170867.951	1.0	172469.500	2.0
6243.1459	24.01	-4.28	51669.750	2.5	53271.070	2.5
6243.5358	12.00	-2.85	59403.110	1.0	61004.330	2.0
6243.8868	19.00	-.01	27398.140	1.5	28999.270	.5
6244.1870	20.00	-3.60	46164.644	2.0	47765.697	3.0
6244.7369	20.00	-2.06	46164.785	3.0	47765.697	3.0
6245.0491	17.00	-3.48	100202.610	1.5	101803.442	2.5
6245.4625	20.00	-.99	46164.971	4.0	47765.697	3.0
6245.5367	26.00	-3.23	49502.530	5.0	51103.237	5.0
6245.9542	29.01	-4.52	146415.700	2.0	148016.300	1.0
6245.9542	6.00	-2.64	86491.410	1.0	88092.010	1.0
6246.4421	7.00	.88	111260.873	3.5	112861.348	4.5
6247.2930	7.00	-.82	111326.798	2.5	112927.055	1.5
6247.4335	28.00	-3.14	42605.964	3.0	44206.185	3.0
6249.9371	18.00	-.94	123172.090	1.0	124771.670	2.0
6250.9493	18.00	-.67	119566.110	3.0	121165.431	3.0
6251.2385	7.00	-.68	111213.271	1.5	112812.518	2.5
6251.5238	17.00	-4.89	98372.970	1.5	99972.144	.5
6252.0086	28.01	-4.70	114869.350	1.5	116468.400	1.5
6252.0868	28.01	-2.28	130197.230	1.5	131796.260	2.5
6253.4791	7.00	-3.17	111271.596	.5	112870.270	.5
6253.5338	6.00	-2.89	87633.750	2.0	89232.410	1.0
6253.7294	9.00	-3.86	128338.720	.5	129937.330	1.5
6254.5511	12.02	-2.47	582747.300	2.0	584345.700	1.0
6255.5686	26.02	-4.88	184780.800	5.0	186378.940	4.0
6256.1949	24.00	-4.72	48507.560	1.0	50105.540	1.0
6256.7822	26.00	-1.45	49737.110	5.0	51334.940	4.0
6256.9741	18.00	-.77	121011.979	1.0	122609.760	1.0
6258.5919	13.00	.76	42233.722	1.5	43831.090	2.5
6259.9753	7.00	-1.09	111204.016	2.5	112801.031	1.5
6260.3869	14.00	-3.71	62954.460	3.0	64551.370	4.0
6260.8808	55.00	.05	24472.046	0.0	26069.265	0.0
6261.2142	17.00	-.64	99269.121	2.5	100865.820	2.5
6261.4377	10.00	-1.19	170872.858	2.0	172469.500	2.0
6261.4377	10.00	-.70	170872.858	2.0	172469.500	3.0
6261.4377	10.00	-.67	170872.858	2.0	172469.500	3.0
6261.5906	55.00	-1.26	24472.227	0.0	26069.265	0.0
6261.9475	22.00	-3.62	37617.868	4.0	39214.380	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6262.5045	6.00	-2.03	87753.730	2.0	89350.100	2.0
6262.8890	10.00	-2.12	170873.228	3.0	172469.500	3.0
6262.8890	10.00	-1.92	170873.228	3.0	172469.500	3.0
6262.8890	10.00	-.68	170873.228	3.0	172469.500	4.0
6262.8890	10.00	-3.14	170873.228	3.0	172469.500	2.0
6263.0185	17.00	-1.52	99269.121	2.5	100865.360	1.5
6263.3677	28.01	-3.43	116167.760	1.5	117763.910	1.5
6263.7601	28.01	-2.97	129479.730	1.5	131075.780	1.5
6265.1340	23.00	-3.96	36408.230	1.5	38003.930	1.5
6265.1340	24.00	-4.33	47228.800	5.0	48824.500	4.0
6265.2125	22.00	-1.34	41871.870	2.0	43467.550	2.0
6265.8801	19.00	-1.68	31695.890	2.5	33291.400	2.5
6265.8801	19.00	-.38	31695.890	2.5	33291.400	3.5
6265.8998	14.00	-2.11	59109.959	3.0	60705.464	3.0
6266.3239	9.00	-.42	128064.103	3.5	129659.500	3.5
6266.9013	19.00	-.53	31696.150	1.5	33291.400	2.5
6267.2274	7.00	.33	111165.158	1.5	112760.325	2.5
6267.7421	26.00	-4.35	49108.876	4.0	50703.912	5.0
6267.7697	17.00	-2.07	97674.092	3.5	99269.121	2.5
6268.3159	18.02	-3.46	207532.150	1.0	209127.040	1.0
6268.6382	7.00	-.76	111165.158	1.5	112759.966	1.5
6268.7050	17.00	-2.51	97674.330	2.5	99269.121	2.5
6268.8662	22.00	-.90	41988.390	3.0	43583.140	3.0
6269.5660	14.00	-2.37	59110.892	2.0	60705.464	3.0
6269.8491	13.01	-.06	138496.700	1.0	140091.200	0.0
6269.8491	13.01	.33	138496.700	1.0	140091.200	1.0
6269.8491	13.01	.63	138496.700	1.0	140091.200	2.0
6270.6514	7.00	-.76	111213.271	1.5	112807.567	.5
6270.8716	6.00	-.09	87002.260	3.0	88596.500	4.0
6270.8755	22.00	-3.87	37555.021	3.0	39149.260	2.0
6271.6584	26.00	-4.79	52214.330	1.0	53808.370	1.0
6272.8390	6.00	-4.26	87837.740	2.0	89431.480	2.0
6272.8390	6.00	-4.15	87837.740	1.0	89431.480	2.0
6272.9610	7.00	.59	111204.016	2.5	112797.725	3.5
6273.3113	18.01	-2.22	172816.210	.5	174409.830	1.5
6274.2011	7.00	-1.65	111143.567	.5	112736.961	1.5
6274.5200	13.00	.92	42237.781	2.5	43831.094	3.5
6274.5358	13.00	-.39	42237.781	2.5	43831.090	2.5
6274.5712	13.01	-1.20	146496.700	2.0	148090.000	2.0
6274.5712	13.01	-.47	146496.700	2.0	148090.000	1.0
6274.5712	13.01	-2.74	146496.700	2.0	148090.000	3.0
6275.1621	6.00	-2.23	86965.450	2.0	88558.600	1.0
6275.6347	26.00	-4.22	50456.790	3.0	52049.820	2.0
6275.6347	6.00	-.58	84032.150	1.0	85625.180	0.0
6275.9893	28.01	-4.31	113407.310	2.5	115000.250	3.5
6276.1469	6.00	-2.27	86956.160	1.0	88549.060	1.0
6276.9350	17.01	-4.91	146013.000	2.0	147605.700	3.0
6277.1636	20.00	-2.09	46164.644	2.0	47757.286	2.0
6277.7194	20.00	-1.18	46164.785	3.0	47757.286	2.0
6278.9061	13.01	-1.57	146497.800	3.0	148090.000	3.0
6278.9061	13.01	-.67	146497.800	3.0	148090.000	2.0
6279.3518	10.00	-3.74	171473.313	2.0	173065.400	2.0
6279.6555	22.00	-4.64	45689.890	3.0	47281.900	3.0
6279.7738	6.00	-1.53	87789.630	1.0	89381.610	0.0
6280.1565	20.00	-2.26	37748.197	1.0	39340.080	2.0
6280.4563	22.00	-4.38	37622.573	3.0	39214.380	3.0
6280.6181	18.00	-2.85	123468.034	1.0	125059.800	2.0
6280.7601	7.00	-2.50	104886.070	.5	106477.800	.5
6281.4310	28.01	-3.79	135944.400	3.5	137535.960	3.5
6281.7468	14.00	-2.29	62596.320	2.0	64187.800	3.0
6284.0764	6.00	-4.50	87708.210	2.0	89299.100	3.0
6284.1554	24.00	-3.59	46967.700	2.0	48558.570	2.0
6284.4319	13.01	-.14	146499.200	4.0	148090.000	3.0
6286.1311	26.00	-1.01	49558.500	4.0	51148.870	3.0
6286.5659	28.01	-4.71	133903.000	1.5	135493.260	1.5
6288.5827	9.02	-2.31	442278.930	2.5	443868.680	2.5
6289.1366	27.00	-4.42	47128.960	2.5	48718.570	2.5
6289.8488	55.00	-.38	26047.860	0.0	27637.723	0.0
6289.9675	15.01	-4.12	130174.300	2.0	131763.700	1.0
6290.2445	6.00	-3.43	86506.700	2.0	88096.030	2.0
6290.3197	18.00	-1.10	121011.979	1.0	122601.290	1.0
6290.7195	26.00	-4.21	53840.680	6.0	55429.890	5.0
6291.4717	22.00	-2.21	36065.750	3.0	37654.770	2.0
6292.7389	29.01	-4.86	146427.600	1.0	148016.300	1.0
6292.8617	17.00	-.93	100165.638	4.5	101754.307	3.5
6293.0559	18.01	-4.06	201608.820	3.5	203197.440	3.5
6293.7293	18.01	-.49	204515.000	.5	206103.450	1.5
6294.0463	27.00	-2.33	46746.000	2.5	48334.370	1.5
6294.4466	14.00	-2.08	57468.239	2.0	59056.508	1.0
6294.6685	20.00	-1.50	37751.867	2.0	39340.080	2.0
6295.1560	17.00	-1.54	100166.217	3.5	101754.307	3.5
6295.4692	20.00	-1.37	46164.644	2.0	47752.655	1.0
6296.2265	6.00	-1.44	84935.340	1.0	86523.160	0.0
6296.4644	7.00	-.80	111213.271	1.5	112801.031	1.5
6296.7540	14.00	.34	60010.458	1.0	61598.145	2.0
6297.0990	6.00	-1.09	86956.160	1.0	88543.760	0.0
6297.2219	18.00	.40	119683.113	2.0	121270.682	2.0
6298.0114	28.01	-2.10	130208.890	3.5	131796.260	2.5
6298.9837	20.00	-1.16	37748.197	1.0	39335.322	1.0
6300.3531	28.01	-3.38	135944.400	3.5	137531.180	4.5
6301.2267	7.01	-2.24	209823.910	4.0	211410.470	3.0
6301.2704	17.00	-4.90	95144.623	2.5	96731.172	3.5
6301.2704	14.00	-2.71	60645.441	2.0	62231.990	2.0
6301.3141	14.00	-2.72	48264.292	3.0	49850.830	2.0
6301.4651	14.00	.08	59118.030	3.0	60704.530	3.0
6301.6120	14.00	.10	57450.580	3.0	59037.043	4.0
6301.9418	9.02	-3.62	442278.930	2.5	443865.310	1.5
6302.8953	29.01	-3.33	116080.460	3.0	117666.600	4.0
6304.4057	6.00	-.64	86912.860	1.0	88498.620	2.0
6304.5647	6.00	-2.80	87713.380	3.0	89299.100	3.0
6305.7179	28.01	-4.34	135977.310	4.5	137562.740	3.5
6306.0759	23.00	-3.93	37025.600	3.5	38610.940	3.5
6306.1952	6.00	-2.88	86506.700	2.0	88092.010	1.0
6306.3146	10.00	-4.77	170875.760	1.0	172461.040	1.0
6306.4737	6.00	-.74	86956.160	1.0	88541.400	2.0
6306.5135	28.01	-4.55	66571.340	2.5	68156.570	1.5
6306.6926	20.00	-1.08	37748.197	1.0	39333.382	0.0
6306.7522	28.01	-4.41	134067.760	1.5	135652.930	1.5
6306.7522	28.01	-2.41	121227.800	2.5	122812.970	3.5
6307.9500	22.00	-3.61	44375.570	5.0	45960.439	6.0
6308.3838	14.00	-1.92	62966.610	5.0	64551.370	4.0
6308.9173	7.00	-.17	111285.644	1.5	112870.270	.5
6309.5504	17.00	-2.04	100169.840	3.5	101754.307	3.5
6309.7853	14.00	-.43	57450.580	3.0	59034.988	3.0
6310.2274	17.00	-2.47	100170.010	2.5	101754.307	3.5
6310.2912	7.00	.48	111326.798	2.5	112911.079	3.5
6310.3868	14.00	-3.54	62667.823	3.0	64252.080	2.0
6310.8926	6.00	-.82	84935.340	1.0	86519.470	1.0
6310.9325	28.01	-3.43	129479.730	1.5	131063.850	.5
6312.0801	7.00	-.09	111326.798	2.5	112910.630	2.5
6312.3550	26.00	-2.82	50186.814	2.0	51770.577	3.0
6312.4627	12.00	-2.41	59318.764	3.0	60902.500	2.0
6312.4627	12.00	-1.09	59318.764	3.0	60902.500	3.0
6312.4627	12.00	-1.28	59318.764	3.0	60902.500	3.0
6312.4627	12.00	.19	59318.764	3.0	60902.500	4.0
6312.5065	12.00	-1.04	59318.775	2.0	60902.500	2.0
6312.5065	12.00	-.32	59318.775	2.0	60902.500	3.0
6312.5065	12.00	-.61	59318.775	2.0	60902.500	3.0
6312.5783	12.00	-.14	59318.793	1.0	60902.500	2.0
6312.9649	6.00	-.67	86965.450	2.0	88549.060	1.0
6313.5829	20.00	-1.15	37751.867	2.0	39335.322	1.0
6313.9657	17.00	-4.25	94314.206	1.5	95897.565	1.5
6314.2408	27.00	-4.48	50578.730	3.5	52162.020	3.5
6315.1781	14.00	-.10	59273.575	1.0	60856.630	1.0
6315.7327	14.00	-1.40	62669.164	3.0	64252.080	2.0
6315.8445	7.00	-2.83	110322.721	1.5	111905.609	2.5
6315.8764	14.00	-2.95	62968.490	4.0	64551.370	4.0
6316.7224	10.00	-4.62	170875.760	2.0	172458.428	2.0
6316.8701	20.00	-.47	37757.449	3.0	39340.080	2.0
6317.8681	28.00	-4.67	50458.187	1.0	52040.568	2.0
6317.9799	14.00	-3.74	62669.727	2.0	64252.080	2.0
6318.0717	28.01	-4.47	135944.400	3.5	137526.730	2.5
6318.2793	7.00	-2.58	111326.798	2.5	112909.076	1.5
6318.4870	28.00	-1.74	50689.490	2.0	52271.716	2.0
6318.7346	26.00	-3.42	45595.046	0.0	47177.210	1.0
6318.7506	14.01	-.59	112394.820	1.5	113976.980	1.5
6319.2298	28.01	-4.25	128732.030	1.5	130314.070	2.5
6319.3896	6.00	-.41	87002.260	3.0	88584.260	2.0
6319.3896	14.01	.36	112394.980	2.5	113976.980	1.5
6319.5494	24.00	-3.91	33816.060	4.0	35398.020	4.0
6320.5083	23.00	-4.54	39398.820	3.5	40980.540	4.5
6323.5907	14.00	-1.22	60645.441	2.0	62226.390	1.0
6324.2667	28.01	-4.77	118563.390	3.5	120144.170	2.5
6324.4267	14.00	-1.71	62802.860	3.0	64383.600	4.0
6324.6669	6.00	-2.12	88198.220	2.0	89778.900	3.0
6325.1070	6.00	-1.32	88192.300	1.0	89772.870	2.0
6327.9496	18.00	-3.86	124715.160	3.0	126295.020	3.0
6328.1098	28.01	-4.65	135956.010	5.5	137535.830	5.5
6328.3741	14.00	-.50	58801.524	1.0	60381.278	1.0
6328.4302	18.00	-3.58	124715.160	3.0	126294.900	3.0
6328.4302	18.00	-2.42	124715.160	3.0	126294.900	4.0
6328.4703	14.00	-1.09	62141.800	1.0	63721.530	2.0
6328.6706	6.00	-2.99	83820.130	1.0	85399.810	2.0
6329.5922	6.00	-.38	86965.450	2.0	88544.900	3.0
6330.3537	28.01	-4.78	134380.820	3.5	135960.080	4.5
6330.9550	28.01	-3.41	135944.400	3.5	137523.510	3.5
6331.4682	14.00	-2.77	60381.278	1.0	61960.260	0.0
6332.9081	18.00	-.44	118651.447	1.0	120230.070	2.0
6333.6022	19.00	-1.04	31069.900	.5	32648.350	.5
6334.2042	15.00	-1.95	76192.300	1.5	77770.600	.5
6334.5252	28.01	-3.71	135382.530	1.5	136960.750	2.5
6334.9266	7.01	-1.62	209823.910	4.0	211402.030	4.0
6335.2478	6.00	.35	86185.200	2.0	87763.240	3.0
6335.6091	18.01	-2.30	203007.690	1.5	204585.640	2.5
6336.3399	10.00	-4.60	170880.660	3.0	172458.428	2.0
6336.4925	27.00	-4.53	50578.730	3.5	52156.460	4.5
6339.1443	26.00	-4.88	45428.385	4.0	47005.455	5.0
6339.3454	6.00	-.50	86185.200	2.0	87762.220	2.0
6339.3855	6.00	-3.32	87773.090	2.0	89350.100	2.0
6339.7473	29.01	-1.96	136336.880	1.0	137913.800	1.0
6339.7473	6.00	.26	86185.200	2.0	87762.120	3.0
6339.8277	10.01	-4.14	302247.780	3.5	303824.680	2.5
6339.9886	28.01	-4.65	66579.710	1.5	68156.570	1.5
6340.4630	26.00	-4.66	51969.140	3.0	53545.882	3.0
6340.7124	28.01	-1.99	135986.060	3.5	137562.740	3.5
6342.0398	28.01	-4.90	134053.050	2.5	135629.400	3.5
6343.6495	6.00	-1.80	86965.450	2.0	88541.400	2.0
6343.7903	10.00	-2.85	171489.485	1.0	173065.400	2.0
6343.9836	10.00	-1.86	169748.150	1.0	171324.017	1.0
6344.4546	28.01	-4.62	135960.080	4.5	137535.830	5.5
6344.9257	55.00	.01	24472.227	0.0	26048.290	0.0
6345.2318	14.00	-2.91	62667.823	3.0	64243.380	2.0
6347.4757	18.01	-.95	202155.860	2.5	203730.860	1.5
6347.5564	6.00	-1.00	88198.220	2.0	89773.200	3.0
6347.9312	20.00	-3.29	46182.399	3.0	47757.286	2.0
6348.1610	28.01	-3.71	135944.400	3.5	137519.230	2.5
6348.6568	7.00	.12	109926.661	2.5	111501.368	1.5
6348.7254	6.00	-2.38	88135.810	3.0	89710.500	3.0
6348.8867	6.00	-1.53	88198.220	2.0	89772.870	2.0
6349.9352	14.01	-.78	124822.340	3.5	126396.730	3.5
6349.9352	14.01	.76	124822.340	3.5	126396.730	4.5
6349.9755	9.02	-3.38	464728.420	4.5	466302.800	3.5
6350.0157	9.02	-1.11	442294.310	1.5	443868.680	2.5
6350.1771	14.01	.65	124822.400	2.5	126396.730	3.5
6350.6370	14.00	-1.94	62669.164	3.0	64243.380	2.0
6351.0485	18.00	-.46	119683.113	2.0	121257.227	1.0
6351.7103	19.00	-.74	31074.400	1.5	32648.350	.5
6352.8000	28.01	-4.26	137529.370	6.5	139103.050	5.5
6352.9091	14.00	-3.52	62669.727	2.0	64243.380	2.0
6353.3169	14.00	-.47	59131.912	4.0	60705.464	3.0
6353.9306	22.00	-4.91	47463.060	4.0	49036.460	4.0
6354.0921	28.01	-3.68	135956.010	5.5	137529.370	6.5
6354.7787	28.01	.92	135100.450	3.5	136673.640	4.5
6355.8292	6.00	-2.78	87777.170	3.0	89350.100	2.0
6357.1629	14.00	-2.31	62141.800	1.0	63714.400	2.0
6357.4054	6.00	-3.24	86519.470	1.0	88092.010	1.0
6357.8098	28.01	-3.81	116191.470	2.5	117763.910	1.5
6358.0927	10.00	-1.41	170689.370	0.0	172261.740	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6358.4972	26.02	-3.91	198333.760	6.0	199906.030	6.0
6359.2495	14.00	-.48	60848.946	4.0	62421.030	3.0
6359.3061	28.01	-3.19	121240.900	3.5	122812.970	3.5
6359.5893	29.01	-3.75	146415.700	2.0	147987.700	2.0
6360.0181	12.00	-.04	53134.642	2.0	54706.536	1.0
6360.1153	28.01	-4.58	137531.180	4.5	139103.050	5.5
6360.3782	10.00	-4.10	169488.415	1.0	171060.220	2.0
6360.3863	7.00	-.84	111165.158	1.5	112736.961	1.5
6360.5604	26.00	-4.96	53874.300	5.0	55446.060	4.0
6360.9206	9.00	-1.21	128087.829	2.5	129659.500	3.5
6361.3456	18.00	-1.64	123468.034	1.0	125039.600	1.0
6362.1795	6.00	-1.57	84935.340	1.0	86506.700	2.0
6362.9489	27.00	-1.87	46746.000	2.5	48317.170	3.5
6363.2324	28.01	-4.39	135960.080	4.5	137531.180	4.5
6363.2364	14.00	-.48	61303.381	3.0	62874.480	2.0
6363.6374	9.02	-2.46	442294.310	1.5	443865.310	1.5
6366.1093	28.01	-1.21	130225.870	3.5	131796.260	2.5
6366.4904	17.00	-1.39	99972.144	.5	101542.440	1.5
6366.8918	14.00	-1.67	61304.283	2.0	62874.480	2.0
6367.3662	28.01	-2.22	134978.470	2.5	136548.550	2.5
6368.2180	6.00	-3.32	86491.410	1.0	88061.280	1.0
6369.1511	14.00	-3.31	62421.030	3.0	63990.670	2.0
6369.9222	26.02	-2.97	198336.580	5.0	199906.030	6.0
6370.0034	14.00	-1.25	61305.050	3.0	62874.480	2.0
6370.2712	18.00	-3.44	123505.536	2.0	125074.900	2.0
6370.7746	6.00	-1.69	87077.360	0.0	88646.600	1.0
6371.3024	6.00	-2.58	84950.360	2.0	86519.470	1.0
6371.7857	28.00	-1.99	49185.146	2.0	50754.137	2.0
6372.0334	27.00	-4.01	49484.050	3.5	51052.980	3.5
6372.2324	17.00	-2.85	100185.426	2.5	101754.307	3.5
6372.3584	6.00	-3.67	86523.160	0.0	88092.010	1.0
6372.8052	28.01	-1.48	130227.520	2.5	131796.260	2.5
6373.1302	28.01	-2.05	134978.470	2.5	136547.130	3.5
6374.1054	6.00	-3.26	82251.710	0.0	83820.130	1.0
6374.7151	24.00	-2.98	53640.740	3.0	55209.010	4.0
6374.7557	28.01	-4.45	99040.750	1.5	100609.010	2.5
6375.6908	18.00	-1.04	124643.540	1.0	126211.570	1.0
6376.1787	14.00	-4.44	62450.400	1.0	64018.310	1.0
6376.4918	20.00	-1.05	35730.454	2.0	37298.287	2.0
6377.1955	18.00	-3.66	123220.730	2.0	124788.390	1.0
6377.7651	14.01	.10	112394.820	1.5	113962.340	.5
6378.6604	30.02	-3.56	260878.800	3.0	262446.100	3.0
6378.9860	28.01	-4.42	137535.830	5.5	139103.050	5.5
6379.6210	18.00	-3.85	123505.536	2.0	125072.600	1.0
6380.8751	7.00	-.45	110286.305	2.5	111853.061	1.5
6381.0625	14.00	-1.77	62519.660	2.0	64086.370	1.0
6382.2276	7.00	-1.19	111271.596	.5	112838.020	1.5
6382.3742	26.00	-2.58	31307.235	4.0	32873.623	4.0
6382.5290	27.00	-1.66	45105.590	3.5	46671.940	2.5
6382.5698	28.01	-4.74	130184.390	2.5	131750.730	3.5
6383.2178	28.00	-4.58	49777.619	3.0	51343.800	2.0
6383.7924	7.01	.16	209823.910	4.0	211389.950	5.0
6384.3225	14.00	-3.11	62318.700	0.0	63884.610	1.0
6384.6078	18.00	-.50	123205.830	3.0	124771.670	2.0
6385.4765	17.00	-3.21	100188.680	4.5	101754.307	3.5
6385.9945	29.01	-4.99	146496.200	3.0	148061.700	3.0
6386.4024	13.01	-.34	142958.900	1.0	144524.300	1.0
6387.3001	17.00	-4.15	97703.941	2.5	99269.121	2.5
6387.4960	14.00	.01	59056.508	1.0	60621.640	0.0
6387.9531	6.00	-.17	84851.530	1.0	86416.550	1.0
6389.1779	10.00	-2.04	169748.150	1.0	171312.870	0.0
6389.3167	20.00	-2.51	47006.194	2.0	48570.880	2.0
6389.3167	20.00	-1.60	47006.194	2.0	48570.880	1.0
6389.3167	20.00	-3.88	47006.194	2.0	48570.880	3.0
6389.6678	20.00	-1.60	47006.280	3.0	48570.880	2.0
6389.6678	20.00	-2.33	47006.280	3.0	48570.880	3.0
6389.9130	7.01	-3.06	209925.760	2.0	211490.300	2.0
6390.1580	20.00	-1.27	47006.400	4.0	48570.880	3.0
6392.5238	14.00	-.72	57468.239	2.0	59032.140	2.0
6392.5279	15.00	-3.92	78132.600	.5	79696.500	1.5
6392.8958	28.01	-2.10	134978.470	2.5	136542.280	3.5
6393.4968	26.00	-4.89	49135.003	3.0	50698.666	2.0
6393.5909	18.00	-2.36	123508.960	0.0	125072.600	1.0
6393.8116	7.00	-3.45	111260.873	3.5	112824.459	2.5
6394.4496	28.01	-4.78	135960.080	4.5	137523.510	3.5
6394.9814	18.01	-.12	204585.640	2.5	206148.940	3.5
6395.4314	18.01	-2.19	201781.790	2.5	203344.980	1.5
6395.8406	14.00	-2.03	61423.230	3.0	62986.320	2.0
6395.8815	27.00	-4.94	50593.380	4.5	52156.460	4.5
6396.2089	15.00	-.12	78133.500	2.5	79696.500	1.5
6396.2089	12.00	-1.36	58580.230	1.0	60143.230	0.0
6398.3375	9.02	-1.74	464728.420	4.5	466290.900	4.5
6398.7061	14.02	-2.06	225526.330	3.0	227088.720	3.0
6400.1398	18.00	-.75	123220.730	2.0	124782.770	1.0
6401.1151	26.00	-3.36	43499.485	4.0	45061.287	3.0
6401.4102	6.00	-2.48	83838.080	2.0	85399.810	2.0
6401.6972	6.00	-3.04	87077.360	0.0	88639.020	1.0
6402.2711	10.01	-1.30	301948.000	1.5	303509.520	2.5
6402.3941	10.00	-1.69	171009.340	1.0	172570.830	1.0
6402.8862	22.00	-3.39	47463.060	4.0	49024.430	3.0
6402.8902	14.00	-.21	59636.667	1.0	61198.036	0.0
6403.9198	7.00	-.29	111198.848	.5	112759.966	1.5
6404.8346	14.00	-2.25	60815.925	2.0	62376.820	3.0
6405.1178	17.00	-2.19	99972.144	.5	101532.970	1.5
6405.1424	7.01	-2.82	209925.760	2.0	211486.580	1.0
6406.3738	18.00	-1.34	124651.050	1.0	126211.570	1.0
6406.5379	10.01	-2.35	301948.000	1.5	303508.480	1.5
6406.5790	6.00	-1.06	87789.630	1.0	89350.100	2.0
6406.7022	28.01	-3.33	116312.340	1.5	117872.780	2.5
6408.1806	28.01	-2.37	135400.670	3.5	136960.750	2.5
6408.3039	10.00	-.99	171009.340	1.0	172569.390	2.0
6408.4188	22.00	-4.21	45721.878	4.0	47281.900	3.0
6408.9611	22.00	-.39	42184.660	4.0	43744.550	4.0
6411.4684	18.00	-1.34	124643.540	1.0	126202.820	0.0
6412.6199	28.01	-.93	135652.930	1.5	137211.930	.5
6413.9652	37.00	.41	26311.437	0.0	27870.535	0.0
6414.0598	28.01	-3.36	135977.310	4.5	137535.960	3.5
6414.4714	28.01	-3.83	133903.000	1.5	135461.550	2.5
6414.5949	28.01	-3.67	135977.310	4.5	137535.830	5.5
6415.0065	21.00	-4.12	17012.980	2.5	18571.400	2.5
6415.7228	26.00	-3.17	50045.900	2.0	51604.146	3.0
6415.8710	27.00	-3.76	49484.050	3.5	51042.260	2.5
6416.2828	22.00	-2.67	36132.210	4.0	37690.320	5.0
6416.3240	15.00	-2.44	77843.900	2.5	79402.000	2.5
6416.9994	10.00	-4.29	169502.284	3.0	171060.220	2.0
6417.2300	14.02	-1.18	225526.330	3.0	227084.210	2.0
6417.3948	22.00	-4.90	47281.900	3.0	48839.740	3.0
6417.5185	10.00	-4.79	171791.700	2.0	173349.510	3.0
6417.5185	10.00	-4.79	171791.700	2.0	173349.510	3.0
6418.6021	12.00	-4.48	59400.763	3.0	60958.310	2.0
6418.6021	12.00	-.81	59400.763	3.0	60958.310	2.0
6418.6021	12.00	-2.13	59400.763	2.0	60958.310	2.0
6418.6721	14.00	-3.08	61647.360	1.0	63204.890	2.0
6420.7746	19.00	.41	27450.690	.5	29007.710	1.5
6420.7952	14.00	-2.67	61647.875	2.0	63204.890	2.0
6421.3519	7.01	-.27	209737.970	3.0	211294.850	4.0
6421.5870	22.00	-2.67	36065.750	3.0	37622.573	3.0
6422.4121	17.00	-.43	98693.013	3.5	100249.636	2.5
6422.6720	10.00	-1.08	171009.340	1.0	172565.900	1.0
6423.2663	17.00	-1.73	98693.220	2.5	100249.636	2.5
6423.5799	6.00	-1.80	84950.360	2.0	86506.700	2.0
6423.7079	7.00	-.08	111204.016	2.5	112760.325	2.5
6424.6945	6.00	-.98	84935.340	1.0	86491.410	1.0
6425.1900	7.00	-3.38	111204.016	2.5	112759.966	1.5
6426.0614	20.00	-1.90	47015.141	3.0	48570.880	2.0
6426.5819	22.00	-2.59	39785.940	4.0	41341.553	5.0
6426.6000	4.01	-.31	96498.000	0.0	98054.033	0.0
6426.8835	10.00	-1.39	171009.340	1.0	172564.880	0.0
6427.6273	17.00	-3.84	100170.010	2.5	101725.370	1.5
6428.2886	12.00	-2.55	59403.110	1.0	60958.310	2.0
6429.7273	14.00	-4.02	60381.278	1.0	61936.130	1.0
6430.5214	26.00	-4.18	45333.834	2.0	46888.494	2.0
6430.8523	6.00	-4.47	86506.700	2.0	88061.280	1.0
6432.1598	18.00	-3.79	123505.536	2.0	125059.800	2.0
6433.7907	28.01	-4.26	135977.310	4.5	137531.180	4.5
6434.7639	17.00	-4.61	98693.220	2.5	100246.855	1.5
6435.6669	20.00	-3.37	46479.813	1.0	48033.230	2.0
6436.1102	14.00	-2.10	61936.130	1.0	63489.440	2.0
6436.2345	27.00	-2.34	45971.190	3.5	47524.470	4.5
6436.2469	17.00	-2.49	95706.534	1.5	97259.811	1.5
6436.7733	26.00	-3.59	50186.814	2.0	51739.964	2.0
6437.0343	7.00	-.05	110299.974	2.5	111853.061	1.5
6437.1877	18.00	-.65	124658.520	2.0	126211.570	1.0
6437.3949	9.00	-2.30	128219.830	1.5	129772.830	2.5
6438.2656	28.01	-2.89	134978.470	2.5	136531.260	1.5
6439.0535	8.01	-3.44	254590.700	4.5	256143.300	3.5
6439.5926	10.00	-4.29	171798.300	1.0	173350.770	1.0
6439.5926	10.00	-4.29	171798.300	1.0	173350.770	1.0
6439.5926	9.00	-2.41	128220.360	3.5	129772.830	2.5
6439.9825	7.00	-.32	111285.644	1.5	112838.020	1.5
6441.0531	22.00	-2.72	36065.750	3.0	37617.868	4.0
6442.4975	18.00	-1.04	124651.050	1.0	126202.820	0.0
6442.5722	12.00	-2.59	58575.487	3.0	60127.239	2.0
6442.6636	17.00	-2.85	95597.593	.5	97149.323	.5
6442.7010	12.00	-1.24	58575.518	3.0	60127.239	2.0
6442.7010	12.00	-2.76	58575.518	2.0	60127.239	2.0
6442.9625	10.00	-3.38	169508.562	2.0	171060.220	2.0
6443.0165	7.00	-3.84	111260.873	3.5	112812.518	2.5
6443.4941	28.01	-4.08	117763.910	1.5	119315.440	2.5
6443.8679	6.00	-1.58	87830.170	1.0	89381.610	0.0
6444.4494	18.01	-2.68	189040.870	1.5	190592.170	1.5
6445.6128	26.00	-2.78	31322.603	3.0	32873.623	4.0
6445.7790	6.00	-1.38	83848.830	3.0	85399.810	2.0
6445.9453	18.00	-1.30	123220.730	2.0	124771.670	2.0
6448.3152	27.00	-1.89	43555.220	3.5	45105.590	3.5
6448.4815	19.00	-1.52	32598.300	2.5	34148.630	1.5
6449.0223	19.00	-2.47	32598.430	1.5	34148.630	1.5
6449.3135	11.00	-.77	38540.180	.5	40090.310	1.5
6449.3967	22.00	-2.97	37976.780	2.0	39526.890	2.0
6449.6464	24.00	-3.46	48507.560	1.0	50057.610	2.0
6450.2706	28.01	-4.38	135986.060	3.5	137535.960	3.5
6451.0198	19.00	-1.77	32598.430	1.5	34148.150	.5
6452.4354	11.00	-.52	38540.930	1.5	40090.310	2.5
6452.4354	11.00	-1.47	38540.930	1.5	40090.310	1.5
6452.6103	10.00	-4.44	169508.562	2.0	171057.900	1.0
6452.6437	9.02	-4.12	464491.890	3.5	466041.220	3.5
6452.6853	18.01	-.71	200880.520	3.5	202429.840	3.5
6452.8519	24.00	-3.38	48661.590	3.0	50210.870	4.0
6452.9352	7.01	-1.01	209737.970	3.0	211287.230	3.0
6453.5184	22.00	-2.56	41780.950	4.0	43330.070	5.0
6454.8517	26.00	-4.47	46672.523	0.0	48221.323	1.0
6455.2394	7.00	-1.23	111060.905	.5	112609.612	1.5
6455.7687	19.00	.11	27450.690	.5	28999.270	.5
6456.5484	7.00	-.61	111143.567	.5	112691.960	.5
6456.6860	29.01	-4.21	135664.340	1.0	137212.700	1.0
6457.1240	14.00	-.96	57583.657	4.0	59131.912	4.0
6458.9387	20.00	-1.28	46258.380	1.0	47806.200	1.0
6458.9804	26.02	-3.75	198336.580	5.0	199884.390	5.0
6462.1367	7.00	-.20	111213.271	1.5	112760.325	2.5
6462.3246	12.00	-1.98	58580.230	1.0	60127.239	2.0
6462.9471	28.01	.27	133715.130	4.5	135261.990	4.5
6463.6366	7.00	-1.42	111213.271	1.5	112759.966	1.5
6464.0336	29.01	-3.26	146556.600	3.0	148103.200	3.0
6464.9950	10.00	-4.15	171803.100	2.0	173349.470	2.0
6464.9950	10.00	-4.15	171803.100	2.0	173349.470	2.0
6465.3295	15.01	-1.76	103756.900	1.0	105303.190	1.0
6465.3713	9.02	-3.83	464491.890	3.5	466038.170	2.5
6465.7058	15.01	-.74	130143.300	3.0	131689.500	4.0
6466.6260	6.00	-1.20	87103.120	1.0	88649.100	0.0
6467.3790	29.01	-3.44	146559.800	4.0	148105.600	4.0
6467.5045	26.02	-3.20	198338.620	4.0	199884.390	5.0
6468.0610	20.00	-3.89	44762.620	2.0	46308.257	2.0
6468.1949	26.00	-4.82	49804.900	3.0	51350.505	4.0
6468.6343	8.01	-.71	254590.700	4.5	256136.200	4.5
6468.9273	20.00	-1.06	46260.770	2.0	47806.200	1.0
6468.9775	20.00	-3.01	44762.839	3.0	46308.257	2.0
6469.1785	6.00	-1.10	87753.730	2.0	89299.100	3.0
6469.6390	14.00	-.20	61423.230	3.0	62968.490	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6470.2252	28.01	-3.46	135986.060	3.5	137531.180	4.5
6471.5445	17.00	-2.10	95400.731	2.5	96945.536	2.5
6471.8043	14.00	.78	57583.657	4.0	59128.400	5.0
6471.8294	26.00	-2.46	49558.500	4.0	51103.237	5.0
6472.1143	26.00	-3.23	45833.240	4.0	47377.909	4.0
6472.8645	18.01	-1.66	191012.350	1.5	192556.840	2.5
6473.1997	28.01	-4.76	134783.140	2.5	136327.550	1.5
6473.5770	12.00	-.66	59342.510	1.0	60886.830	1.0
6473.5770	12.00	-1.84	59342.510	2.0	60886.830	1.0
6473.5770	12.00	-.36	59342.510	1.0	60886.830	2.0
6473.5770	12.00	-.54	59342.510	0.0	60886.830	1.0
6473.5770	12.00	-.84	59342.510	2.0	60886.830	2.0
6473.5770	12.00	.08	59342.510	2.0	60886.830	3.0
6475.3800	14.00	-.52	62226.390	1.0	63770.280	1.0
6475.6316	28.01	-2.05	130206.900	4.5	131750.730	3.5
6477.1000	6.00	-2.00	87103.120	1.0	88646.600	1.0
6477.1420	24.00	-3.22	48558.570	2.0	50102.040	3.0
6477.2721	20.00	-4.66	44762.620	2.0	46306.059	3.0
6478.1493	10.00	-4.98	169516.990	1.0	171060.220	2.0
6478.1913	20.00	-3.12	44762.839	3.0	46306.059	3.0
6478.4012	6.00	-.98	87806.930	3.0	89350.100	2.0
6478.4977	7.00	.10	110362.462	3.5	111905.609	2.5
6479.3627	20.00	-2.05	44763.118	4.0	46306.059	3.0
6480.6270	6.00	-4.35	87002.260	3.0	88544.900	3.0
6481.2992	18.01	-1.74	191169.520	1.5	192712.000	1.5
6481.3832	6.00	-1.32	86956.160	1.0	88498.620	2.0
6481.6354	26.00	-3.87	54555.450	4.0	56097.850	3.0
6481.8455	14.00	.37	59273.575	1.0	60815.925	2.0
6482.4759	15.00	-2.20	76192.300	1.5	77734.500	2.5
6483.0308	12.00	-.90	53134.642	2.0	54676.710	2.0
6483.0308	12.00	.51	53134.642	2.0	54676.710	3.0
6483.9895	28.01	-3.16	130208.890	3.5	131750.730	3.5
6483.9937	14.00	-1.68	49060.601	1.0	50602.440	0.0
6484.0316	22.00	-4.03	39302.360	4.0	40844.190	3.0
6484.1157	6.00	-4.05	86519.470	1.0	88061.280	1.0
6484.1746	12.00	-1.37	53134.642	2.0	54676.438	3.0
6484.6624	23.00	-3.71	36700.780	2.5	38242.460	3.5
6485.6721	28.01	-2.91	135670.490	.5	137211.930	.5
6485.8151	10.00	-3.13	169502.284	3.0	171043.690	2.0
6485.9203	10.00	-3.39	170289.319	2.0	171830.700	1.0
6486.3875	14.00	-3.22	62545.100	1.0	64086.370	1.0
6487.3134	6.00	-.90	84950.360	2.0	86491.410	1.0
6487.4018	20.00	-3.09	44762.620	2.0	46303.649	2.0
6487.9029	10.00	-3.83	169516.990	1.0	171057.900	1.0
6488.3240	20.00	-2.19	44762.839	3.0	46303.649	2.0
6488.4503	28.01	-4.79	116838.330	1.5	118379.110	2.5
6490.5986	14.00	-1.95	62450.400	1.0	63990.670	2.0
6490.7166	26.00	-3.40	53838.600	3.0	55378.842	2.0
6491.9727	17.00	-2.07	100185.426	2.5	101725.370	1.5
6492.3268	24.00	-4.08	46967.700	2.0	48507.560	1.0
6492.5376	23.00	-6.53	14910.040	3.5	16449.850	2.5
6494.0981	10.00	-1.01	171032.790	3.0	172572.230	3.0
6494.4652	20.00	-2.30	44762.620	2.0	46301.973	1.0
6494.5158	10.00	-4.23	170288.959	2.0	171828.300	2.0
6494.5200	10.00	-2.31	171032.790	3.0	172572.130	2.0
6495.1951	9.00	-.90	128520.220	.5	130059.400	.5
6495.3639	6.00	-3.77	87002.260	3.0	88541.400	2.0
6496.0350	10.00	-4.16	170289.319	2.0	171828.300	2.0
6496.7358	7.00	.11	111285.644	1.5	112824.459	2.5
6497.5464	10.00	-3.13	170289.677	3.0	171828.300	2.0
6498.1082	6.00	-.89	87760.610	4.0	89299.100	3.0
6498.2349	14.00	-1.25	61447.860	2.0	62986.320	2.0
6498.4461	28.01	-3.98	133954.850	.5	135493.260	1.5
6498.9107	30.02	-4.80	260981.900	3.0	262520.200	2.0
6498.9530	14.00	-1.11	62231.990	2.0	63770.280	1.0
6499.6713	6.00	-4.90	86523.160	0.0	88061.280	1.0
6499.7009	7.00	-.74	111198.848	.5	112736.961	1.5
6499.7431	14.00	-1.42	49028.294	0.0	50566.397	1.0
6499.7558	14.00	-1.23	61447.860	2.0	62985.960	1.0
6500.8124	6.00	-.85	84851.530	1.0	86389.380	2.0
6501.4466	6.00	-2.30	87843.910	1.0	89381.610	0.0
6501.6580	6.00	-2.68	87077.360	0.0	88615.010	1.0
6502.2923	29.01	-4.59	146496.200	3.0	148033.700	4.0
6502.5037	28.01	-3.42	135986.060	3.5	137523.510	3.5
6502.8844	18.00	-.76	122514.290	1.0	124051.650	2.0
6503.1805	22.00	-4.50	47187.540	2.0	48724.830	1.0
6503.5063	18.00	.03	118651.447	1.0	120188.660	2.0
6503.7728	9.00	-.35	128611.920	1.5	130149.070	.5
6504.5514	17.00	-1.57	95612.357	1.5	97149.323	.5
6504.8603	18.00	-.21	118651.447	1.0	120188.340	1.0
6505.0339	7.00	-2.55	111260.873	3.5	112797.725	3.5
6505.1694	24.00	-4.06	47021.750	1.0	48558.570	2.0
6505.5504	25.00	-4.23	43524.080	3.5	45060.810	3.5
6505.7536	10.00	-.55	165912.782	1.0	167449.464	1.0
6506.1007	10.00	-1.94	171032.790	3.0	172569.390	2.0
6508.1338	9.00	-.56	128523.280	1.5	130059.400	.5
6508.3456	28.01	-4.85	119656.250	3.5	121192.320	3.5
6508.7651	7.00	-.80	111271.596	.5	112807.567	.5
6509.0659	6.00	-1.04	87103.120	1.0	88639.020	1.0
6509.9560	56.01	.05	59800.310	0.0	61336.419	0.0
6510.5072	9.00	-.14	128606.090	2.5	130141.650	1.5
6510.8379	14.00	-1.69	59109.959	3.0	60645.441	2.0
6510.9312	17.00	-.60	99354.670	1.5	100890.130	2.5
6511.6097	23.00	-4.81	37075.640	4.5	38610.940	3.5
6511.6394	10.00	-1.79	171032.790	3.0	172568.083	3.0
6511.9066	28.01	-2.06	130215.500	4.5	131750.730	3.5
6512.5853	10.00	-.36	171032.790	3.0	172567.860	4.0
6512.9672	28.01	-4.72	133929.880	3.5	135464.860	3.5
6513.3915	23.02	-4.86	159146.600	2.5	160681.480	3.5
6514.1130	18.01	-3.24	204585.640	2.5	206120.350	2.5
6514.1724	10.00	-3.94	170296.004	1.0	171830.700	1.0
6514.7964	14.00	-1.45	59110.892	2.0	60645.441	2.0
6515.0045	13.01	-3.75	144964.700	3.0	146499.200	4.0
6515.0045	13.01	-2.18	144964.700	4.0	146499.200	4.0
6515.0045	13.01	-2.32	144964.700	4.0	146499.200	4.0
6515.0045	13.01	-.66	144964.700	5.0	146499.200	4.0
6515.6839	26.00	-3.88	52213.207	3.0	53747.547	3.0
6516.8562	18.00	-3.11	123505.536	2.0	125039.600	1.0
6517.1068	14.00	-2.56	60815.925	2.0	62349.930	2.0
6517.3319	10.00	-4.68	169526.268	2.0	171060.220	2.0
6518.2668	17.00	-.28	97666.650	4.5	99200.382	3.5
6518.4878	6.00	-1.66	87103.120	1.0	88636.800	2.0
6519.6781	18.00	-2.67	123254.990	1.0	124788.390	1.0
6519.7206	6.00	-1.94	87113.210	2.0	88646.600	1.0
6519.9544	10.00	-3.09	169526.885	3.0	171060.220	2.0
6520.3542	10.00	-3.48	170288.959	2.0	171822.200	1.0
6520.6561	6.00	-1.58	86965.450	2.0	88498.620	2.0
6520.6562	28.01	-3.69	135986.060	3.5	137519.230	2.5
6520.9539	13.01	-2.32	144964.700	3.0	146497.800	3.0
6520.9539	13.01	-.76	144964.700	4.0	146497.800	3.0
6520.9539	13.01	-.09	144964.700	4.0	146497.800	3.0
6521.4388	17.00	-1.21	97667.396	3.5	99200.382	3.5
6521.6133	7.00	-.53	111204.016	2.5	112736.961	1.5
6523.9326	8.01	-1.75	254590.700	4.5	256123.100	3.5
6525.2527	28.01	-1.81	135746.130	1.5	137278.220	1.5
6525.6360	13.01	-.89	144964.700	3.0	146496.700	2.0
6526.2750	23.00	-4.54	36408.230	1.5	37940.080	.5
6526.5690	28.00	-3.45	49185.146	2.0	50716.927	1.0
6526.6159	14.00	-1.51	61423.230	3.0	62955.000	2.0
6527.2040	10.00	-3.45	169526.268	2.0	171057.900	1.0
6528.5764	28.01	-2.23	136031.430	2.5	137562.740	3.5
6528.9175	14.00	-.56	61423.230	3.0	62954.460	3.0
6529.2416	10.00	-2.84	169501.636	4.0	171032.790	3.0
6531.4342	18.00	-2.23	123508.960	0.0	125039.600	1.0
6531.5622	28.01	-4.13	118379.110	2.5	119909.720	1.5
6531.7329	24.00	-3.71	48488.230	0.0	50018.800	1.0
6531.9889	27.00	-1.65	44394.470	3.5	45924.980	3.5
6532.0060	10.00	-4.12	169502.284	3.0	171032.790	3.0
6532.3304	28.00	-1.38	49159.060	2.0	50689.490	2.0
6532.3731	22.00	-.56	42052.720	3.0	43583.140	3.0
6532.7146	7.00	-.81	110322.721	1.5	111853.061	1.5
6533.3123	15.00	-4.18	72741.600	1.5	74271.800	1.5
6533.9954	26.00	-1.30	49804.900	3.0	51334.940	4.0
6534.5507	24.00	-4.82	42538.810	3.0	44068.720	3.0
6535.0162	17.00	-3.26	97739.320	1.5	99269.121	2.5
6535.3195	9.00	-1.16	128611.920	1.5	130141.650	1.5
6535.6186	27.00	-3.48	46671.940	2.5	48201.600	3.5
6536.5032	17.00	-1.98	96313.330	1.5	97842.783	1.5
6536.5801	7.00	.02	111271.596	.5	112801.031	1.5
6538.3414	22.00	-3.96	39640.980	3.0	41170.003	3.0
6539.0813	28.01	-4.26	119665.290	2.5	121194.140	2.5
6540.2791	10.00	-1.69	171822.200	1.0	173350.770	1.0
6540.4075	10.00	-3.28	171043.690	2.0	172572.230	3.0
6540.4502	19.00	-1.30	31069.900	.5	32598.430	1.5
6540.5187	28.00	-2.58	47424.830	1.0	48953.344	1.0
6540.8353	10.00	-1.10	171043.690	2.0	172572.130	2.0
6541.3489	26.00	-4.51	52857.840	1.0	54386.160	1.0
6541.6485	14.00	-1.29	62231.990	2.0	63760.240	3.0
6543.6610	18.00	-.96	123254.990	1.0	124782.770	1.0
6545.7175	10.00	-.66	171822.200	1.0	173349.500	2.0
6545.8461	10.00	-2.39	171822.200	1.0	173349.470	2.0
6546.4033	10.00	-1.96	171043.690	2.0	172570.830	1.0
6546.6177	18.00	-.85	122514.290	1.0	124041.380	2.0
6546.8749	28.01	-3.34	119665.290	2.5	121192.320	3.5
6547.3895	18.00	-2.31	122514.290	1.0	124041.200	1.0
6547.5438	7.00	-.03	111285.644	1.5	112812.518	2.5
6547.8525	7.00	-.60	111165.158	1.5	112691.960	.5
6547.8740	18.00	-4.72	123261.593	2.0	124788.390	1.0
6548.2729	17.00	-4.53	94468.857	.5	95995.561	.5
6548.2900	10.00	-4.73	169516.990	1.0	171043.690	2.0
6549.0364	14.00	-.57	60705.464	3.0	62231.990	2.0
6549.1823	14.00	-.45	58774.368	3.0	60300.860	2.0
6549.7143	10.00	-4.08	169482.972	0.0	171009.340	1.0
6549.9975	14.00	-1.54	57583.657	4.0	59109.959	3.0
6550.0490	17.00	-1.84	97674.092	3.5	99200.382	3.5
6550.4525	10.00	-4.47	170296.004	1.0	171822.200	1.0
6550.4782	26.00	-.87	49804.900	3.0	51331.090	2.0
6550.5212	23.00	-3.86	36477.750	.5	38003.930	1.5
6551.0707	17.00	-2.65	97674.330	2.5	99200.382	3.5
6551.2509	6.00	-2.87	87773.090	2.0	89299.100	3.0
6551.8949	23.00	-4.08	36580.460	1.5	38106.320	2.5
6552.1097	6.00	-1.38	87113.210	2.0	88639.020	1.0
6552.5820	10.00	-2.89	171043.690	2.0	172569.390	2.0
6553.8321	14.00	-1.34	58775.451	2.0	60300.860	2.0
6554.7302	9.02	-4.46	466301.960	2.5	467827.160	1.5
6556.1916	28.01	-2.41	130225.870	3.5	131750.730	3.5
6556.4926	24.00	-3.66	37205.880	3.0	38730.670	2.0
6558.2001	10.00	-.51	171043.690	2.0	172568.083	3.0
6558.6433	28.01	-3.51	119656.250	3.5	121180.540	4.5
6558.7724	26.00	-2.23	50045.900	2.0	51570.160	3.0
6558.9101	10.00	-4.37	169508.562	2.0	171032.790	3.0
6559.0306	6.00	-2.10	87708.210	2.0	89232.410	1.0
6559.6331	14.00	-1.02	62421.030	3.0	63945.090	3.0
6559.7622	19.00	-2.02	31074.400	1.5	32598.430	1.5
6559.8052	22.00	-4.40	41624.130	4.0	43148.150	3.0
6559.8913	14.00	-.96	62226.390	1.0	63750.390	1.0
6560.3218	19.00	-1.07	31074.400	1.5	32598.300	2.5
6560.9246	6.00	-1.49	79310.850	2.0	80834.610	3.0
6561.2260	7.00	-.04	111213.271	1.5	112736.961	1.5
6561.6566	6.00	-.72	87113.210	2.0	88636.800	2.0
6561.6868	37.00	.12	26311.437	0.0	27835.435	0.0
6562.5827	28.00	-2.80	49327.845	2.0	50851.220	1.0
6563.2074	9.00	-.05	128697.890	2.5	130221.120	1.5
6563.2936	28.01	-3.39	130227.520	2.5	131750.730	3.5
6564.1124	17.00	-3.37	100202.350	.5	101725.370	1.5
6565.2331	17.00	-2.43	100202.610	1.5	101725.370	1.5
6566.3112	24.00	-4.48	48661.590	3.0	50184.100	2.0
6566.3543	6.00	.51	83877.310	1.0	85399.810	2.0
6566.4836	10.00	-2.39	171828.300	2.0	173350.770	1.0
6567.1738	28.01	-4.41	119656.250	3.5	121178.560	3.5
6567.6052	10.00	-3.15	171043.690	2.0	172565.900	1.0
6568.8135	6.00	-1.51	87777.170	3.0	89299.100	3.0
6569.6769	6.00	-.78	84984.970	3.0	86506.700	2.0
6570.1604	12.00	-1.83	59041.019	2.0	60562.637	2.0
6570.1604	12.00	-1.14	59041.019	2.0	60562.637	3.0
6570.1604	12.00	-1.35	59041.019	2.0	60562.637	3.0
6571.1019	15.00	-.04	76425.200	2.5	77946.600	2.5
6571.9226	10.00	-.47	171828.300	2.0	173349.510	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6571.9659	10.00	-1.62	171828.300	2.0	173349.500	2.0
6572.0652	18.00	-1.33	123261.593	2.0	124782.770	1.0
6572.0954	10.00	-1.44	171828.300	2.0	173349.470	2.0
6572.6572	6.00	-2.76	87711.370	0.0	89232.410	1.0
6573.0028	26.00	-2.76	50045.900	2.0	51566.860	1.0
6573.1541	10.00	-3.61	169488.415	1.0	171009.340	1.0
6573.3054	28.01	-4.69	133443.890	2.5	134964.780	1.5
6574.8617	27.00	-4.74	50593.380	4.5	52113.910	5.5
6575.7698	28.01	-4.05	133862.210	1.5	135382.530	1.5
6576.7216	6.00	-3.88	86317.640	2.0	87837.740	1.0
6576.7216	6.00	-.97	86317.640	2.0	87837.740	2.0
6576.8513	10.00	-1.39	171830.700	1.0	173350.770	1.0
6577.2537	14.00	-2.19	62667.823	3.0	64187.800	3.0
6577.4572	6.00	-2.71	87830.170	1.0	89350.100	2.0
6577.4572	18.00	-4.52	123172.090	1.0	124692.020	2.0
6578.2794	10.00	-3.25	170689.370	0.0	172209.110	1.0
6581.3975	9.00	-2.11	128140.480	2.5	129659.500	3.5
6582.4808	10.00	-.70	171830.700	1.0	173349.470	2.0
6583.1267	14.00	-1.01	62669.179	4.0	64187.800	3.0
6583.5212	6.00	-.89	88260.370	2.0	89778.900	3.0
6584.0849	14.00	-2.12	62231.990	2.0	63750.390	1.0
6584.5055	28.00	-1.69	49171.187	1.0	50689.490	2.0
6584.5185	28.01	-2.38	121294.670	4.5	122812.970	3.5
6585.5031	14.00	-3.97	62669.727	2.0	64187.800	3.0
6585.5161	6.00	-3.07	84851.530	1.0	86369.600	2.0
6586.1582	28.00	-1.98	49271.578	3.0	50789.500	4.0
6586.3013	10.00	-.59	167449.464	1.0	168967.353	1.0
6586.6442	18.01	-2.23	204585.640	2.5	206103.450	1.5
6587.0782	28.01	-4.12	128803.230	2.5	130320.940	3.5
6587.7293	6.00	-2.02	87832.540	2.0	89350.100	2.0
6588.2459	18.00	-4.29	123557.459	3.0	125074.900	2.0
6588.3284	10.00	-3.76	169526.268	2.0	171043.690	2.0
6588.6410	27.00	-2.70	45876.580	2.5	47393.930	2.5
6588.8582	13.01	-.37	144780.200	2.0	146297.500	1.0
6590.4652	10.01	-2.82	302307.750	2.5	303824.680	2.5
6591.0301	28.01	-3.70	135382.530	1.5	136899.330	1.5
6591.5515	18.00	-1.65	123254.990	1.0	124771.670	2.0
6592.4209	10.01	-3.31	302307.750	2.5	303824.230	3.5
6593.2904	28.01	-3.47	135444.470	3.5	136960.750	2.5
6593.3774	26.02	-2.77	199139.760	5.0	200656.020	6.0
6593.5035	7.00	-1.17	111165.158	1.5	112681.389	2.5
6597.0321	16.00	.09	78269.200	4.0	79784.620	3.0
6597.1758	7.00	-.66	111285.644	1.5	112801.031	1.5
6598.8610	16.00	-1.34	78269.620	2.0	79784.620	3.0
6598.8610	16.00	-.50	78269.620	3.0	79784.620	3.0
6600.0547	26.00	-3.55	47017.170	3.0	48531.896	3.0
6600.6473	28.01	-3.94	133929.880	3.5	135444.470	3.5
6600.6473	14.00	-1.13	57541.918	1.0	59056.508	1.0
6600.8914	26.00	-3.70	53610.440	4.0	55124.974	3.0
6601.0046	13.00	-3.75	43831.090	2.5	45345.598	2.5
6601.0221	13.00	-2.44	43831.094	3.5	45345.598	2.5
6601.4754	12.02	-2.29	582839.700	3.0	584354.100	2.0
6601.5103	14.00	-2.61	59191.072	2.0	60705.464	3.0
6602.2166	10.00	-.82	171057.900	1.0	172572.130	2.0
6603.2195	14.00	-.29	58786.860	3.0	60300.860	2.0
6603.2196	30.02	-4.30	260981.900	3.0	262495.900	4.0
6603.8739	6.00	-2.25	87718.560	1.0	89232.410	1.0
6605.0518	14.00	-.06	61423.230	3.0	62936.810	4.0
6606.4049	28.01	-3.79	119665.290	2.5	121178.560	3.5
6607.1909	18.00	-.19	121096.670	0.0	122609.760	1.0
6607.2607	13.00	-2.60	43831.090	2.5	45344.164	1.5
6607.2782	28.01	-3.61	99844.130	3.5	101357.200	4.5
6607.8459	8.01	-4.99	206971.300	2.5	208484.240	2.5
6607.8896	10.00	-1.19	171057.900	1.0	172570.830	1.0
6607.9333	28.01	-3.43	138495.840	4.5	140008.760	3.5
6608.3263	6.00	-2.03	88260.370	2.0	89773.200	3.0
6608.6977	10.00	-1.43	169976.740	0.0	171489.485	1.0
6609.6371	14.00	-.57	61423.230	3.0	62935.760	3.0
6609.7245	10.00	-3.81	170689.370	0.0	172201.880	1.0
6609.7682	6.00	-3.41	88260.370	2.0	89772.870	2.0
6609.9430	17.00	-4.83	98693.220	2.5	100205.680	2.5
6610.4238	28.01	-4.09	133922.910	4.5	135435.260	4.5
6610.7298	6.00	-2.61	88198.220	2.0	89710.500	3.0
6611.0358	28.01	.80	136050.530	2.5	137562.740	3.5
6611.6916	24.00	-4.32	42538.810	3.0	44050.870	4.0
6611.9103	10.00	-.62	171060.220	2.0	172572.230	3.0
6612.3039	12.01	-.71	114332.680	2.5	115844.600	2.5
6612.3039	12.01	.59	114332.680	2.5	115844.600	3.5
6612.3475	10.00	-2.20	171060.220	2.0	172572.130	2.0
6612.4350	6.00	-2.55	87103.120	1.0	88615.010	1.0
6612.5663	12.01	.43	114332.740	1.5	115844.600	2.5
6612.8724	6.00	-2.34	87113.210	2.0	88625.000	3.0
6614.1849	10.00	-1.89	171057.900	1.0	172569.390	2.0
6615.2791	24.00	-3.68	48507.560	1.0	50018.800	1.0
6615.3579	7.00	-.29	111326.798	2.5	112838.020	1.5
6615.6731	17.00	-1.30	99354.670	1.5	100865.820	2.5
6616.3737	6.00	-.61	84851.530	1.0	86362.520	1.0
6617.0305	28.01	-3.97	128803.230	2.5	130314.070	2.5
6617.6876	17.00	-1.46	99354.670	1.5	100865.360	1.5
6618.0380	10.00	-2.04	171060.220	2.0	172570.830	1.0
6618.0818	15.01	-1.57	127600.000	1.0	129110.600	1.0
6618.1695	6.00	-3.37	86327.160	3.0	87837.740	2.0
6618.6864	18.00	-.05	119760.220	1.0	121270.682	2.0
6618.9581	13.01	-.73	143269.800	3.0	144780.200	2.0
6619.2649	28.01	-2.12	138495.840	4.5	140006.170	4.5
6620.0714	7.00	-1.63	110395.463	1.5	111905.609	2.5
6620.2293	28.01	-4.03	132225.150	1.5	133735.260	2.5
6620.3740	18.00	-.77	123261.593	2.0	124771.670	2.0
6621.0930	8.00	.64	102116.710	2.0	103626.623	3.0
6622.0272	29.01	-4.06	146556.600	3.0	148066.300	2.0
6622.7202	12.00	-.67	56968.218	3.0	58477.760	2.0
6622.7290	22.00	-1.44	42724.110	2.0	44233.650	3.0
6622.8519	12.00	-1.59	56968.248	2.0	58477.760	2.0
6622.9528	12.00	-2.60	56968.271	1.0	58477.760	2.0
6623.0362	28.01	-1.49	120189.550	.5	121699.020	1.5
6623.2863	8.00	.50	102116.710	2.0	103626.123	2.0
6623.4003	10.00	-3.11	169814.630	2.0	171324.017	1.0
6623.4311	6.00	-.95	86317.640	2.0	87827.020	2.0
6623.6505	18.00	-2.88	123205.830	3.0	124715.160	3.0
6623.7821	6.00	-.72	86317.640	2.0	87826.940	3.0
6624.3527	10.00	-.94	171060.220	2.0	172569.390	2.0
6624.6161	14.00	-.82	62802.860	3.0	64311.970	4.0
6624.7039	6.00	-.74	84116.090	1.0	85625.180	0.0
6624.8531	8.00	.28	102116.710	2.0	103625.766	1.0
6624.9234	22.00	-.56	41958.510	2.0	43467.550	2.0
6625.3493	17.00	-4.91	97184.277	3.5	98693.220	2.5
6625.8894	9.00	-1.06	128712.300	1.5	130221.120	1.5
6625.9464	18.00	-.04	119683.113	2.0	121191.920	2.0
6626.1002	12.00	-1.12	56968.248	2.0	58477.020	1.0
6626.2012	12.00	-1.42	56968.271	1.0	58477.020	1.0
6626.2583	17.00	-3.50	97184.277	3.5	98693.013	3.5
6626.3285	28.01	-4.44	115565.980	2.5	117074.700	3.5
6627.6552	12.00	-1.30	56968.271	1.0	58476.689	0.0
6628.0858	22.00	-4.09	39686.100	2.0	41194.420	3.0
6629.4923	10.00	-2.40	171057.900	1.0	172565.900	1.0
6629.5275	28.00	-2.40	50689.490	2.0	52197.482	3.0
6629.6682	28.01	-3.80	130147.870	.5	131655.830	.5
6630.0946	10.00	-1.95	171060.220	2.0	172568.083	3.0
6630.7235	29.01	-3.85	136754.110	2.0	138261.830	3.0
6630.9434	29.01	-3.24	116375.470	3.0	117883.140	4.0
6631.6911	30.02	-3.16	260988.400	4.0	262495.900	4.0
6632.5270	18.01	-2.85	203007.690	1.5	204515.000	.5
6633.2752	14.00	-.06	61447.860	2.0	62955.000	2.0
6633.9795	10.00	-2.10	171057.900	1.0	172564.880	0.0
6634.4417	28.00	-3.47	49327.560	3.0	50834.435	2.0
6635.6527	14.00	-.54	61447.860	2.0	62954.460	3.0
6635.9963	10.00	-4.68	169526.268	2.0	171032.790	3.0
6636.0932	8.03	-1.72	552495.100	3.5	554001.600	3.5
6636.0932	8.03	-.18	552495.100	3.5	554001.600	4.5
6636.0932	8.03	-.29	552495.100	2.5	554001.600	3.5
6637.4590	6.00	-3.27	87843.910	1.0	89350.100	2.0
6638.7152	10.00	-3.48	169526.885	3.0	171032.790	3.0
6639.1957	14.00	-2.21	49060.601	1.0	50566.397	1.0
6639.7073	10.00	-1.71	171060.220	2.0	172565.900	1.0
6639.8704	14.00	-.68	57295.881	0.0	58801.524	1.0
6640.6775	28.01	-4.11	134783.140	2.5	136288.600	2.5
6643.0295	20.00	-2.19	46260.770	2.0	47765.697	3.0
6643.4003	28.00	-2.80	48953.344	1.0	50458.187	1.0
6644.1641	28.01	-3.75	104503.220	2.5	106007.890	2.5
6644.3849	18.00	.12	121096.670	0.0	122601.290	1.0
6644.6277	7.00	-1.30	111060.905	.5	112565.470	.5
6644.7824	28.01	-1.49	136031.430	2.5	137535.960	3.5
6645.0076	28.00	-1.56	49327.560	3.0	50832.039	3.0
6645.1357	17.00	-4.16	98693.220	2.5	100197.670	3.5
6646.0060	7.00	-.64	110401.356	2.5	111905.609	2.5
6646.3285	23.00	-4.33	37025.600	3.5	38529.780	4.5
6646.3462	11.00	-1.89	37036.754	2.5	38540.930	1.5
6646.4346	11.00	-2.84	37036.774	1.5	38540.930	1.5
6646.4478	28.00	-2.29	49032.589	2.0	50536.742	1.0
6648.3616	19.00	-.20	33178.120	2.5	34681.840	1.5
6648.8480	19.00	-1.15	33178.230	1.5	34681.840	1.5
6648.8480	19.00	-.46	33178.230	1.5	34681.840	.5
6649.3345	30.02	-4.30	260418.100	2.0	261921.600	2.0
6649.7503	11.00	-2.15	37036.774	1.5	38540.180	.5
6649.8696	20.00	-1.81	44804.878	3.0	46308.257	2.0
6650.8385	10.00	-4.86	171752.100	1.0	173255.260	0.0
6651.2810	19.00	-2.22	32598.300	2.5	34101.360	2.5
6651.2810	19.00	-.92	32598.300	2.5	34101.360	3.5
6651.3385	7.00	-2.46	110350.014	.5	111853.061	1.5
6651.8563	19.00	-1.07	32598.430	1.5	34101.360	2.5
6652.4760	21.00	-2.60	17012.980	2.5	18515.770	1.5
6654.2516	7.00	-.86	110403.220	3.5	111905.609	2.5
6654.4642	18.00	-3.46	123557.459	3.0	125059.800	2.0
6654.8230	6.00	.10	86317.640	2.0	87819.900	3.0
6655.5319	28.01	-3.08	116261.810	.5	117763.910	1.5
6655.5319	8.01	-.73	254481.500	3.5	255983.600	4.5
6656.1965	28.01	-1.73	130184.610	5.5	131686.560	4.5
6656.4181	29.01	-4.06	146559.800	4.0	148061.700	3.0
6656.5954	26.00	-3.32	54224.680	1.0	55726.540	0.0
6656.8614	6.00	-3.08	87113.210	2.0	88615.010	1.0
6657.6150	6.00	-1.08	87103.120	1.0	88604.750	2.0
6660.0987	14.00	-4.20	62802.860	3.0	64303.930	3.0
6661.3946	10.00	-3.47	169508.562	2.0	171009.340	1.0
6661.6165	22.00	-3.90	34700.212	5.0	36200.940	5.0
6661.7408	6.00	-2.01	82251.710	0.0	83752.410	1.0
6663.4192	14.00	-1.45	60381.278	1.0	61881.600	1.0
6663.5169	15.00	-.11	79122.100	1.5	80622.400	2.5
6663.6058	19.00	-2.20	32648.350	.5	34148.630	1.5
6664.5830	18.00	-1.53	117151.387	1.0	118651.447	1.0
6665.2806	26.00	-3.10	47960.973	4.0	49460.876	5.0
6665.3162	26.00	-4.36	49850.610	3.0	51350.505	4.0
6665.4717	6.00	-2.14	86327.160	3.0	87827.020	2.0
6665.5606	28.01	-1.11	120199.180	1.5	121699.020	1.5
6665.7384	19.00	-2.50	32648.350	.5	34148.150	.5
6665.8273	6.00	-4.62	86327.160	3.0	87826.940	3.0
6667.1653	14.00	-4.69	61303.381	3.0	62802.860	3.0
6667.2854	7.00	-4.31	111260.873	3.5	112760.325	2.5
6667.7390	15.01	-.89	104051.100	3.0	105550.450	2.0
6668.3394	14.00	-1.02	61598.145	2.0	63097.360	1.0
6668.4061	28.01	-2.84	135461.550	2.5	136960.750	2.5
6669.1178	24.00	-3.52	48558.570	2.0	50057.610	2.0
6669.7140	20.00	-3.31	46258.380	1.0	47757.286	2.0
6670.0522	6.00	-.93	84950.360	2.0	86449.190	3.0
6670.3148	20.00	-2.62	44804.878	3.0	46303.649	2.0
6670.8534	14.00	-4.19	62519.660	2.0	64018.310	1.0
6672.0243	17.00	-4.73	98693.013	3.5	100191.400	3.5
6672.0243	17.00	-4.83	98693.013	3.5	100191.400	4.5
6673.8950	17.00	-4.14	98693.013	3.5	100190.980	4.5
6675.2586	7.00	-3.03	111326.798	2.5	112824.459	2.5
6677.7153	6.00	-2.46	87735.300	1.0	89232.410	1.0
6678.1748	18.00	.21	119760.220	1.0	121257.227	1.0
6678.9199	28.01	-3.00	130174.030	1.5	131670.870	2.5
6679.5892	29.01	-2.21	120919.410	1.0	122416.100	0.0
6680.0802	28.01	-2.92	101246.160	.5	102742.740	1.5
6680.3480	28.01	-4.75	119665.290	2.5	121161.810	1.5
6680.3659	20.00	-3.79	46260.770	2.0	47757.286	2.0
6680.6605	29.01	-4.97	136765.380	4.0	138261.830	3.0
6680.7007	17.00	-1.94	97703.941	2.5	99200.382	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6681.0668	14.00	-.80	60645.441	2.0	62141.800	1.0
6681.3302	13.01	.28	144780.200	2.0	146276.500	3.0
6682.0135	14.00	-1.96	61306.713	4.0	62802.860	3.0
6682.0448	16.00	-.47	79784.620	3.0	81280.760	2.0
6682.2234	15.00	-2.44	77843.300	1.5	79339.400	1.5
6683.1615	28.01	-1.22	135464.860	3.5	136960.750	2.5
6683.2240	10.00	-4.75	170585.040	1.0	172080.916	1.0
6683.6395	18.00	-2.73	123372.987	2.0	124868.770	3.0
6683.7870	15.01	-1.88	104054.700	1.0	105550.450	2.0
6684.7702	28.01	-.96	120203.490	2.5	121699.020	1.5
6684.9043	15.00	-1.99	77843.900	2.5	79339.400	1.5
6685.4855	28.01	-3.50	101247.370	2.5	102742.740	1.5
6685.7984	28.01	-1.42	136031.430	2.5	137526.730	2.5
6686.5139	14.00	-.86	62226.390	1.0	63721.530	2.0
6686.7823	28.01	-2.67	121317.890	3.5	122812.970	3.5
6686.8493	20.00	-.07	47036.225	1.0	48531.290	2.0
6687.0059	9.02	-2.80	442370.280	.5	443865.310	1.5
6687.8111	14.00	-2.34	62802.860	3.0	64297.710	4.0
6688.3972	28.00	-2.29	42767.900	3.0	44262.619	2.0
6688.4822	25.00	-4.20	57621.900	1.5	59116.600	2.5
6689.2430	29.01	-3.56	116576.810	0.0	118071.340	1.0
6689.3326	23.00	-4.37	36611.810	2.5	38106.320	2.5
6689.4221	22.00	-4.32	37654.770	2.0	39149.260	2.0
6689.5877	17.00	-4.87	99681.887	1.5	101176.340	2.5
6689.6907	18.00	-2.92	123220.730	2.0	124715.160	3.0
6689.9279	17.00	-2.59	96313.330	1.5	97807.707	2.5
6690.0488	28.01	-2.81	116167.760	1.5	117662.110	1.5
6692.1984	26.00	-1.85	50045.900	2.0	51539.770	2.0
6692.5568	28.01	-4.72	128827.150	3.5	130320.940	3.5
6692.6151	12.00	-1.86	58442.853	2.0	59936.630	1.0
6693.4529	6.00	-.56	87113.210	2.0	88606.800	3.0
6694.0356	27.00	-4.55	47225.110	3.5	48718.570	2.5
6694.0356	7.00	-2.59	104984.340	.5	106477.800	.5
6694.7528	14.00	-1.28	60856.630	1.0	62349.930	2.0
6694.7977	28.01	-3.44	132120.700	.5	133613.990	1.5
6695.5958	7.00	-.49	111198.848	.5	112691.960	.5
6696.0981	29.01	-2.40	137649.100	2.0	139142.100	2.0
6696.8157	6.00	-.75	86327.160	3.0	87820.000	4.0
6696.9055	9.00	-3.80	128523.280	1.5	130016.100	2.5
6697.2644	6.00	-.67	86327.160	3.0	87819.900	3.0
6698.2201	12.00	-2.65	58442.843	3.0	59935.370	2.0
6698.2201	12.00	-1.32	58442.843	3.0	59935.370	3.0
6698.2201	12.00	-1.52	58442.843	3.0	59935.370	3.0
6698.2201	12.00	-.04	58442.843	3.0	59935.370	4.0
6698.2650	12.00	-1.28	58442.853	2.0	59935.370	2.0
6698.2650	12.00	-.55	58442.853	2.0	59935.370	3.0
6698.2650	12.00	-.85	58442.853	2.0	59935.370	3.0
6698.3413	13.01	-.57	144781.900	3.0	146274.400	2.0
6698.3593	12.00	-.37	58442.874	1.0	59935.370	2.0
6698.5523	28.00	-1.86	49185.146	2.0	50677.599	3.0
6699.6745	18.00	-2.15	123372.987	2.0	124865.190	2.0
6699.8227	6.00	-3.25	87806.930	3.0	89299.100	3.0
6699.9933	20.00	-3.32	47040.007	2.0	48532.139	3.0
6700.2268	28.01	-2.45	136031.430	2.5	137523.510	3.5
6700.3481	18.00	-2.53	123372.987	2.0	124865.040	3.0
6700.7208	9.02	-2.31	442278.930	2.5	443770.900	3.5
6701.3047	28.01	-4.71	128822.230	1.5	130314.070	2.5
6702.6525	6.00	-2.08	87113.210	2.0	88604.750	2.0
6702.8997	26.00	-.41	49737.110	5.0	51228.595	5.0
6703.5514	29.01	-3.75	115639.020	2.0	117130.360	2.0
6703.8076	20.00	.10	47040.007	2.0	48531.290	3.0
6703.8076	20.00	-.80	47040.007	2.0	48531.290	2.0
6705.0801	29.01	-3.29	146575.300	2.0	148066.300	2.0
6706.2046	9.00	-1.84	128525.350	2.5	130016.100	2.5
6706.8344	18.01	-.16	203730.860	1.5	205221.470	1.5
6707.6894	6.00	-1.98	79310.850	2.0	80801.270	2.0
6707.7344	21.00	-3.74	17025.360	1.5	18515.770	1.5
6707.9459	22.00	-2.37	36132.210	4.0	37622.573	3.0
6708.5806	14.00	-.45	57541.918	1.0	59032.140	2.0
6709.3550	14.00	-1.68	62596.320	2.0	64086.370	1.0
6709.6567	20.00	-3.68	44989.830	2.0	46479.813	1.0
6709.6747	12.00	-1.13	59689.991	2.0	61179.970	2.0
6709.6747	12.00	-.43	59689.991	2.0	61179.970	3.0
6709.6747	12.00	-.64	59689.991	2.0	61179.970	3.0
6711.6522	14.00	-.49	62231.990	2.0	63721.530	2.0
6712.2831	7.01	-2.55	209925.760	2.0	211415.160	2.0
6712.3732	22.00	-1.20	36200.940	5.0	37690.320	5.0
6712.8645	22.00	-1.45	36065.750	3.0	37555.021	3.0
6715.4392	15.01	-2.26	130143.300	3.0	131632.000	3.0
6715.5295	28.01	-4.49	133169.920	3.5	134658.600	4.5
6716.9281	7.00	-.57	111271.596	.5	112759.966	1.5
6718.5532	14.00	-2.86	62226.390	1.0	63714.400	2.0
6718.6436	14.00	-2.53	62534.080	4.0	64022.070	3.0
6719.0500	14.00	.51	61447.860	2.0	62935.760	3.0
6719.5016	28.01	-2.43	136031.430	2.5	137519.230	2.5
6719.8538	17.00	-4.92	97712.660	4.5	99200.382	3.5
6719.9532	19.02	-5.00	241039.000	1.5	242526.700	.5
6721.3673	26.00	-4.09	47755.485	3.0	49242.872	3.0
6721.5346	6.00	-2.78	83497.620	2.0	84984.970	3.0
6721.7786	12.00	-1.44	57855.214	1.0	59342.510	0.0
6721.7786	12.00	-.96	57855.214	1.0	59342.510	1.0
6721.7786	12.00	-.74	57855.214	1.0	59342.510	2.0
6722.2351	26.00	-4.13	47755.485	3.0	49242.680	2.0
6723.4783	28.01	-4.87	128827.150	3.5	130314.070	2.5
6723.5778	20.00	-4.19	47045.241	3.0	48532.139	3.0
6723.9758	27.00	-.88	43295.320	4.5	44782.130	4.5
6725.4685	28.01	-2.81	130184.390	2.5	131670.870	2.5
6725.8305	29.01	-2.82	146575.300	2.0	148061.700	3.0
6726.0296	10.00	-3.78	170585.040	1.0	172071.396	2.0
6726.7809	18.00	-3.66	123205.830	3.0	124692.020	2.0
6727.3376	12.00	-1.75	59400.763	2.0	60886.830	2.0
6727.3376	12.00	-.85	59400.763	2.0	60886.830	1.0
6727.3376	12.00	-.92	59400.763	3.0	60886.830	2.0
6727.3376	12.00	-1.56	59400.763	3.0	60886.830	2.0
6727.3376	12.00	-3.13	59400.763	2.0	60886.830	3.0
6727.3376	12.00	-1.80	59400.763	3.0	60886.830	3.0
6727.3376	12.00	-1.99	59400.763	3.0	60886.830	3.0
6727.3376	12.00	-.52	59400.763	4.0	60886.830	3.0
6727.4191	20.00	-.80	47045.241	3.0	48531.290	3.0
6727.4191	20.00	.26	47045.241	3.0	48531.290	4.0
6727.4191	20.00	-2.34	47045.241	3.0	48531.290	2.0
6727.5051	14.00	-1.75	62534.080	4.0	64020.110	4.0
6728.0031	25.00	-3.88	51638.170	2.5	53124.090	3.5
6728.0937	12.00	-.69	59342.510	1.0	60828.410	2.0
6728.0937	12.00	-1.17	59342.510	2.0	60828.410	2.0
6728.5012	24.00	-3.71	47021.750	1.0	48507.560	1.0
6728.9088	7.00	-1.35	111326.798	2.5	112812.518	2.5
6729.1896	22.00	-1.34	36132.210	4.0	37617.868	4.0
6730.1409	14.00	-.25	59221.110	0.0	60706.558	1.0
6730.7209	14.00	-2.98	62534.080	4.0	64019.400	3.0
6733.3956	28.01	-4.17	101258.010	1.5	102742.740	1.5
6733.4862	7.01	-3.37	209925.760	2.0	211410.470	3.0
6734.1349	10.00	-4.27	169839.450	1.0	171324.017	1.0
6734.1576	28.00	-3.81	47686.625	0.0	49171.187	1.0
6734.7428	18.00	-3.69	123372.987	2.0	124857.420	2.0
6735.1148	9.00	-1.02	128122.719	1.5	129607.070	.5
6735.4234	18.00	-4.73	123372.987	2.0	124857.270	1.0
6737.7521	9.02	-4.38	442147.190	2.5	443630.960	3.5
6737.9791	12.00	-3.35	59403.110	1.0	60886.830	2.0
6741.9324	29.01	-1.69	136919.350	3.0	138402.200	3.0
6743.5696	6.00	-1.90	79318.780	1.0	80801.270	2.0
6743.9335	14.00	-1.92	62231.990	2.0	63714.400	2.0
6744.3521	18.00	.65	119683.113	2.0	121165.431	3.0
6745.2985	27.00	-2.17	44394.470	3.5	45876.580	2.5
6746.4365	24.01	-4.89	51789.210	3.5	53271.070	2.5
6746.7097	28.01	-3.88	130174.030	1.5	131655.830	.5
6746.7097	15.00	-.70	76173.400	3.5	77655.200	3.5
6747.2106	28.01	-3.81	119665.290	2.5	121146.980	2.5
6747.8026	7.00	-3.12	104996.240	1.5	106477.800	.5
6748.7136	23.00	-3.24	38115.650	3.5	39597.010	4.5
6749.1237	22.00	-3.17	38159.710	3.0	39640.980	3.0
6749.2603	6.00	-1.11	87077.360	0.0	88558.600	1.0
6749.3971	6.00	-.69	84935.340	1.0	86416.550	1.0
6749.7160	6.00	-.97	87103.120	1.0	88584.260	2.0
6750.5638	17.00	-.27	101045.386	1.5	102526.340	2.5
6750.6276	28.01	-2.72	130205.620	5.5	131686.560	4.5
6753.1356	24.00	.53	47697.440	2.0	49177.830	3.0
6753.3774	12.00	.11	54706.536	1.0	56186.873	0.0
6754.0161	10.00	-2.61	169843.820	2.0	171324.017	1.0
6754.4587	6.00	-.62	84851.530	1.0	86331.630	1.0
6755.7916	26.00	-4.28	55378.842	2.0	56858.650	2.0
6756.4673	28.01	-2.56	130206.900	4.5	131686.560	4.5
6756.7413	25.01	.05	98423.500	6.0	99903.100	5.0
6756.8601	20.00	-.68	35818.713	3.0	37298.287	2.0
6757.6547	25.01	-.72	98423.700	5.0	99903.100	5.0
6758.1116	25.01	-1.76	98423.800	4.0	99903.100	5.0
6758.7512	22.00	-1.44	41988.390	3.0	43467.550	2.0
6758.8426	20.01	-.67	88847.310	3.5	90326.450	3.5
6758.8426	20.01	.87	88847.310	3.5	90326.450	4.5
6758.8426	20.01	.76	88847.310	2.5	90326.450	3.5
6759.2539	23.00	-4.45	36763.410	2.5	38242.460	3.5
6759.5601	22.00	-4.89	39715.437	3.0	41194.420	3.0
6760.8995	21.00	-3.10	17025.360	1.5	18504.050	.5
6760.9041	7.00	-.78	111213.271	1.5	112691.960	.5
6760.9451	6.00	-1.91	87753.730	2.0	89232.410	1.0
6762.5458	20.01	-.64	83458.080	2.5	84936.410	2.5
6762.5458	20.01	.66	83458.080	3.5	84936.410	2.5
6762.9118	27.00	-4.88	28470.510	1.5	29948.760	2.5
6763.5066	9.02	-4.46	442147.190	2.5	443625.310	2.5
6764.2846	28.01	-4.32	108368.050	2.5	109846.000	3.5
6765.1543	17.00	-.61	98693.220	2.5	100170.980	1.5
6765.5663	28.01	-4.11	130208.890	3.5	131686.560	4.5
6765.7037	28.01	-2.41	103025.580	2.5	104503.220	2.5
6766.9264	7.00	-.19	111204.016	2.5	112681.389	2.5
6768.1771	29.01	-3.02	146556.600	3.0	148033.700	4.0
6772.6246	28.01	-.85	120222.890	1.5	121699.020	1.5
6772.8541	22.00	-1.33	42107.060	4.0	43583.140	3.0
6773.2212	14.00	-1.15	61647.360	1.0	63123.360	0.0
6773.3130	10.00	-3.58	170851.320	1.0	172327.300	0.0
6773.3130	10.00	-3.58	170851.320	1.0	172327.300	0.0
6775.1950	20.01	.50	83458.080	2.5	84933.650	1.5
6775.5026	14.00	-.66	57798.072	2.0	59273.575	1.0
6776.8024	6.00	-1.17	86362.520	1.0	87837.740	1.0
6776.8024	6.00	-1.91	86362.520	1.0	87837.740	2.0
6776.9540	10.00	.08	167449.464	1.0	168924.651	2.0
6778.2727	25.01	-.12	98423.700	5.0	99898.600	4.0
6778.7323	25.01	-.55	98423.800	4.0	99898.600	4.0
6779.2793	7.00	-.92	111285.644	1.5	112760.325	2.5
6779.5184	55.00	.42	24317.151	0.0	25792.182	0.0
6779.6517	25.01	-1.37	98424.000	3.0	99898.600	4.0
6779.8816	14.00	-.45	61511.770	1.0	62986.320	2.0
6780.9301	7.00	-.89	111285.644	1.5	112759.966	1.5
6781.3395	7.00	-1.35	111326.798	2.5	112801.031	1.5
6781.4637	10.00	-4.75	170597.190	2.0	172071.396	2.0
6781.5372	14.00	-.84	61511.770	1.0	62985.960	1.0
6781.8133	9.02	-2.59	442278.930	2.5	443753.060	2.5
6781.9513	15.00	-.77	76659.400	2.5	78133.500	2.5
6782.5954	9.02	-4.60	466295.150	1.5	467769.110	.5
6782.8716	29.01	-4.74	146559.800	4.0	148033.700	4.0
6783.4607	18.00	.50	121161.356	1.0	122635.128	2.0
6784.0683	28.01	-4.05	130197.230	1.5	131670.870	2.5
6784.4182	17.00	-.84	96945.536	2.5	98419.100	2.5
6784.7129	17.00	-3.49	101052.840	2.5	102526.340	2.5
6785.0813	10.00	-2.71	169839.450	1.0	171312.870	0.0
6785.0813	17.00	-2.21	101052.840	2.5	102526.260	3.5
6785.1227	7.00	-.07	109812.233	.5	111285.644	1.5
6785.3852	17.00	-2.59	96945.536	2.5	98418.890	3.5
6786.0484	14.00	-4.05	62545.100	1.0	64018.310	1.0
6786.2925	14.00	-1.34	60487.103	1.0	61960.260	0.0
6786.5552	18.01	-2.12	173347.830	1.5	174820.930	.5
6788.2371	14.00	-.98	57328.789	1.0	58801.524	1.0
6788.9516	28.01	-3.22	130147.870	.5	131620.450	1.5
6789.1084	17.00	-4.40	94314.206	1.5	95786.752	2.5
6789.2282	10.00	-2.11	171009.340	1.0	172481.860	1.0
6790.4734	28.01	-4.37	136542.280	3.5	138014.530	2.5
6790.5656	28.01	-2.99	136054.500	1.5	137526.730	2.5
6790.8424	28.01	-4.56	133169.920	3.5	134642.090	3.5
6791.3821	22.00	-3.94	27480.047	3.0	28952.100	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6791.6267	15.00	-2.59	79122.100	1.5	80594.100	1.5
6792.0881	13.01	-.66	143170.000	1.0	144641.900	0.0
6792.9188	24.00	-4.68	47189.870	4.0	48661.590	3.0
6793.0111	6.00	-1.35	87077.360	0.0	88549.060	1.0
6793.1958	6.00	-2.72	79310.850	2.0	80782.510	1.0
6794.7655	27.00	-3.05	46746.000	2.5	48217.320	3.5
6794.9041	18.00	-2.56	123220.730	2.0	124692.020	2.0
6795.9665	28.01	-4.36	130215.500	4.5	131686.560	4.5
6796.0127	6.00	-.69	87113.210	2.0	88584.260	2.0
6796.0589	25.00	-4.40	51638.170	2.5	53109.210	2.5
6796.1974	14.00	-2.23	62519.660	2.0	63990.670	2.0
6796.2437	25.01	-.33	98423.800	4.0	99894.800	3.0
6796.5208	7.01	-1.00	209823.910	4.0	211294.850	4.0
6796.5809	7.00	.19	111326.798	2.5	112797.725	3.5
6797.1678	25.01	-.52	98424.000	3.0	99894.800	3.0
6797.2140	28.01	-4.23	133929.880	3.5	135400.670	3.5
6797.6300	25.01	-1.16	98424.100	2.0	99894.800	3.0
6797.9073	28.01	-3.40	116191.470	2.5	117662.110	1.5
6798.7996	22.00	-4.17	37743.933	3.0	39214.380	3.0
6798.9707	6.00	-1.30	84851.530	1.0	86321.940	0.0
6799.0169	29.01	-1.66	137649.100	2.0	139119.500	3.0
6799.5810	7.00	.05	109856.520	1.5	111326.798	2.5
6800.7744	28.01	-3.79	116824.150	2.5	118294.170	3.5
6803.3661	22.00	-4.03	39785.940	4.0	41255.400	4.0
6804.3849	24.00	.67	47708.590	3.0	49177.830	3.0
6804.7646	17.00	-4.07	95534.923	.5	97004.081	1.5
6805.4965	29.01	-3.56	146559.800	4.0	148028.800	5.0
6805.7282	27.00	-1.49	45924.980	3.5	47393.930	2.5
6805.9599	13.01	.10	143170.000	1.0	144638.900	1.0
6805.9599	13.01	-.99	143170.000	2.0	144638.900	1.0
6805.9599	13.01	.58	143170.000	1.0	144638.900	2.0
6805.9599	13.01	.19	143170.000	2.0	144638.900	2.0
6805.9599	13.01	.93	143170.000	2.0	144638.900	3.0
6805.9599	13.01	.31	143170.000	0.0	144638.900	1.0
6807.8137	25.01	-.59	98424.000	3.0	99892.500	2.0
6808.2773	25.01	-.59	98424.100	2.0	99892.500	2.0
6808.8338	9.02	-3.71	464728.420	4.5	466196.700	3.5
6808.9265	22.00	-2.18	42611.580	1.0	44079.840	2.0
6809.0656	26.02	-4.97	198336.580	5.0	199804.810	4.0
6809.1398	14.00	-.42	61198.036	0.0	62666.250	1.0
6809.6686	13.01	-.58	144964.700	4.0	146432.800	4.0
6809.6686	13.01	-.72	144964.700	4.0	146432.800	4.0
6809.6686	13.01	1.05	144964.700	4.0	146432.800	5.0
6809.6686	13.01	-3.14	144964.700	4.0	146432.800	5.0
6809.6686	13.01	-2.05	144964.700	4.0	146432.800	5.0
6809.6686	13.01	1.05	144964.700	4.0	146432.800	5.0
6809.6686	13.01	-2.34	144964.700	5.0	146432.800	4.0
6809.6686	13.01	-.59	144964.700	5.0	146432.800	5.0
6809.6686	13.01	-.70	144964.700	5.0	146432.800	5.0
6809.6686	13.01	1.13	144964.700	5.0	146432.800	6.0
6809.6686	13.01	.95	144964.700	3.0	146432.800	4.0
6810.4572	15.01	-1.47	103756.900	1.0	105224.830	0.0
6810.9212	28.01	-4.68	128853.910	4.5	130321.740	5.5
6811.0929	18.00	-.66	117183.654	2.0	118651.447	1.0
6811.2924	26.02	-3.39	198337.060	3.0	199804.810	4.0
6811.3852	10.00	-4.37	171791.700	2.0	173259.430	1.0
6812.4992	28.01	-4.52	135493.260	1.5	136960.750	2.5
6812.9170	28.01	-4.36	136547.130	3.5	138014.530	2.5
6813.5392	7.00	-2.59	110385.795	.5	111853.061	1.5
6814.2637	24.01	-4.41	51584.440	1.5	53051.550	1.5
6814.4495	28.01	-3.98	128853.870	2.5	130320.940	3.5
6816.8192	6.00	-2.57	87832.540	2.0	89299.100	3.0
6817.1911	24.00	-3.99	47021.750	1.0	48488.230	0.0
6818.5394	6.00	-.83	84950.360	2.0	86416.550	1.0
6818.5395	26.02	-3.81	198338.620	4.0	199804.810	4.0
6818.9115	6.00	-.10	84851.530	1.0	86317.640	2.0
6818.9255	14.00	-3.73	62667.823	3.0	64133.930	4.0
6819.2139	7.00	-.97	111143.567	.5	112609.612	1.5
6819.5023	10.00	-1.41	171009.340	1.0	172475.323	2.0
6819.5162	28.01	-4.52	136548.550	2.5	138014.530	2.5
6819.7861	20.00	-.36	42514.845	0.0	43980.767	1.0
6820.3537	28.01	-.76	135746.130	1.5	137211.930	.5
6820.5770	26.00	-3.10	53913.090	2.0	55378.842	2.0
6821.0610	7.00	-1.28	110035.720	.5	111501.368	1.5
6822.3783	7.00	-.91	111271.596	.5	112736.961	1.5
6822.4808	26.00	-1.05	49502.530	5.0	50967.873	6.0
6822.6344	25.00	-4.66	43595.500	2.5	45060.810	3.5
6824.2644	29.01	-3.22	115665.400	1.0	117130.360	2.0
6825.1682	14.00	-3.76	62669.164	3.0	64133.930	4.0
6825.2381	14.00	-2.23	62669.179	4.0	64133.930	4.0
6825.3360	28.01	-4.18	136054.500	1.5	137519.230	2.5
6825.5224	28.01	-3.45	128837.110	5.5	130301.800	6.5
6825.6622	19.00	-.27	33178.120	2.5	34642.780	1.5
6826.1749	19.00	-1.23	33178.230	1.5	34642.780	1.5
6826.1749	19.00	-.53	33178.230	1.5	34642.780	.5
6826.4079	6.00	-1.06	86362.520	1.0	87827.020	2.0
6826.7389	26.00	-4.07	45913.480	3.0	47377.909	4.0
6827.5268	6.00	-2.13	88061.280	1.0	89525.540	1.0
6827.7133	6.00	-1.29	84984.970	3.0	86449.190	3.0
6827.7226	14.00	.05	59032.140	2.0	60496.358	2.0
6827.8066	30.02	-3.45	260981.900	3.0	262446.100	3.0
6829.4671	26.00	-4.67	53661.130	3.0	55124.974	3.0
6829.9990	6.00	-2.23	79318.780	1.0	80782.510	1.0
6830.6057	7.00	-4.69	112826.900	2.5	114290.500	2.5
6830.6057	7.00	-2.18	112826.900	3.5	114290.500	2.5
6831.0723	15.00	-1.61	76425.200	2.5	77888.700	1.5
6831.9127	7.01	-2.58	209823.910	4.0	211287.230	3.0
6833.2809	26.00	-4.60	53913.090	2.0	55376.117	1.0
6833.9955	20.00	-1.08	35835.413	2.0	37298.287	2.0
6835.6030	18.01	.13	210609.270	4.5	212071.800	3.5
6836.3976	14.00	-2.60	62935.760	3.0	64398.120	2.0
6837.0522	28.01	-4.94	128862.490	4.5	130324.710	4.5
6837.8051	20.00	-.36	42518.708	1.0	43980.767	1.0
6838.1745	28.01	-3.12	130208.890	3.5	131670.870	2.5
6839.5780	18.00	-1.37	124749.890	0.0	126211.570	1.0
6842.1526	10.00	-4.85	171798.300	1.0	173259.430	1.0
6842.1994	6.00	-3.71	88061.280	1.0	89522.400	2.0
6843.5483	18.00	-1.06	121794.158	0.0	123254.990	1.0
6844.2136	28.01	-3.59	130225.870	3.5	131686.560	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6844.3448	14.00	-1.00	60381.278	1.0	61841.940	2.0
6844.4479	28.01	-4.45	113408.710	1.5	114869.350	1.5
6846.3697	24.00	-4.27	48558.570	2.0	50018.800	1.0
6846.5104	28.01	-4.11	128853.870	2.5	130314.070	2.5
6846.6182	26.00	-3.91	44676.963	4.0	46137.140	3.0
6848.0580	28.01	-3.38	134053.050	2.5	135512.920	2.5
6849.3248	28.01	-4.79	128853.910	4.5	130313.510	5.5
6849.8410	18.01	-2.77	204937.800	4.5	206397.290	4.5
6850.4371	7.00	-.77	109812.233	.5	111271.596	.5
6850.4981	6.00	-2.23	79323.160	0.0	80782.510	1.0
6850.5028	10.00	-1.99	170867.951	1.0	172327.300	0.0
6850.5028	10.00	-1.99	170867.951	1.0	172327.300	0.0
6850.6389	6.00	-1.71	87773.090	2.0	89232.410	1.0
6850.9676	28.01	-4.99	128862.490	4.5	130321.740	5.5
6853.2970	28.00	-2.06	48817.600	1.0	50276.354	0.0
6853.3158	24.00	.78	47719.080	4.0	49177.830	3.0
6853.3158	9.02	-2.86	442294.310	1.5	443753.060	2.5
6853.7246	16.00	-3.52	77180.310	2.0	78638.973	3.0
6854.0206	28.01	-2.97	130197.230	1.5	131655.830	.5
6854.1286	7.00	-2.02	110447.032	1.5	111905.609	2.5
6854.6362	28.00	-3.57	42653.723	2.0	44112.192	1.0
6855.6891	8.00	-.19	102412.007	1.0	103870.252	0.0
6856.7424	8.00	.29	102412.007	1.0	103870.028	1.0
6857.0246	8.00	.51	102412.007	1.0	103869.968	2.0
6858.7323	7.00	-1.29	110395.463	1.5	111853.061	1.5
6859.2000	3.00	.51	35012.000	0.0	36469.896	0.0
6859.3346	6.00	-1.42	86369.470	4.0	87826.940	3.0
6861.7828	10.01	-4.70	322068.580	5.5	323525.530	4.5
6861.8770	22.00	-3.76	44375.570	5.0	45832.500	5.0
6862.2208	28.00	-1.35	49332.643	4.0	50789.500	4.0
6864.0913	24.00	-2.71	44186.920	2.0	45643.380	3.0
6864.7041	10.00	-4.73	171803.100	2.0	173259.430	1.0
6865.0812	6.00	-2.46	83747.390	2.0	85203.640	2.0
6865.2226	22.00	-4.06	39214.380	3.0	40670.600	2.0
6866.8494	28.00	-2.58	42656.317	1.0	44112.192	1.0
6867.4579	14.00	-.30	59506.359	2.0	60962.105	2.0
6867.5334	28.01	-3.36	128855.600	6.5	130311.330	7.5
6868.7130	6.00	-2.29	87103.120	1.0	88558.600	1.0
6869.9874	26.00	-.99	49737.110	5.0	51192.320	4.0
6870.4596	26.00	-4.78	32873.623	4.0	34328.733	3.0
6870.8987	12.00	-1.16	58442.843	3.0	59897.860	2.0
6870.9460	12.00	-1.60	58442.853	2.0	59897.860	1.0
6870.9460	12.00	-2.08	58442.853	2.0	59897.860	2.0
6871.0451	12.00	-1.90	58442.874	1.0	59897.860	1.0
6871.0451	12.00	-3.08	58442.874	1.0	59897.860	2.0
6871.0451	12.00	-1.78	58442.874	1.0	59897.860	0.0
6871.0687	14.00	-2.67	59190.460	1.0	60645.441	2.0
6871.1537	14.00	-.70	59032.140	2.0	60487.103	1.0
6872.3015	21.00	-3.07	35671.000	1.5	37125.720	.5
6872.4432	29.01	-3.63	136765.380	4.0	138220.070	4.0
6873.9600	14.00	-1.88	59191.072	2.0	60645.441	2.0
6874.8724	20.00	.34	42526.591	2.0	43980.767	1.0
6875.0426	23.00	-3.61	37075.640	4.5	38529.780	4.5
6875.5154	6.00	-.72	84935.340	1.0	86389.380	2.0
6875.9883	28.01	-4.60	128867.000	3.5	130320.940	3.5
6876.2721	18.02	-4.42	207673.160	0.0	209127.040	1.0
6876.6079	17.00	-4.70	98693.013	3.5	100146.822	3.5
6877.7527	18.00	-2.26	123261.593	2.0	124715.160	3.0
6878.6093	14.00	-.26	57583.657	4.0	59037.043	4.0
6881.6680	6.00	-1.16	83497.620	2.0	84950.360	2.0
6881.7154	29.01	-1.97	135759.970	2.0	137212.700	1.0
6881.8102	28.01	-4.97	130184.390	2.5	131637.100	3.5
6883.1842	10.00	-1.69	171644.880	1.0	173097.300	0.0
6883.1842	10.00	-1.69	171644.880	1.0	173097.300	0.0
6883.3738	6.00	.20	83947.430	3.0	85399.810	2.0
6883.8194	14.00	-1.97	60704.530	3.0	62156.816	2.0
6884.0848	28.01	.77	133809.760	3.5	135261.990	4.5
6884.1227	18.00	-1.26	121932.908	1.0	123385.130	0.0
6885.8866	28.01	-4.54	128869.890	5.5	130321.740	5.5
6886.5744	7.00	-1.16	110401.356	2.5	111853.061	1.5
6886.5981	10.00	-2.76	171009.340	1.0	172461.040	1.0
6886.8827	18.01	-3.58	187589.230	2.5	189040.870	1.5
6887.1673	14.00	-2.66	62318.700	0.0	63770.280	1.0
6887.2148	28.01	-3.15	116312.340	1.5	117763.910	1.5
6888.3490	14.00	-1.84	57583.657	4.0	59034.988	3.0
6888.4154	7.00	-1.40	111285.644	1.5	112736.961	1.5
6888.8284	6.00	-.02	83752.410	1.0	85203.640	2.0
6888.8759	10.01	-1.09	302057.260	.5	303508.480	1.5
6889.7304	22.00	-1.48	41780.950	4.0	43231.990	4.0
6889.8254	28.01	-4.66	128862.490	4.5	130313.510	5.5
6892.1528	6.00	-.12	86369.470	4.0	87820.000	4.0
6892.6280	6.00	-1.70	86369.470	4.0	87819.900	3.0
6893.4454	14.00	-1.08	60706.558	1.0	62156.816	2.0
6894.0540	6.00	-3.13	88260.370	2.0	89710.500	3.0
6894.6720	14.00	-1.17	61647.360	1.0	63097.360	1.0
6895.0239	22.00	-4.02	37852.434	4.0	39302.360	4.0
6897.1217	14.00	-1.23	61647.875	2.0	63097.360	1.0
6898.7161	6.00	-3.06	88061.280	1.0	89510.430	2.0
6899.0112	10.00	-2.05	171009.340	1.0	172458.428	2.0
6899.3017	14.00	-.91	60487.103	1.0	61936.130	1.0
6899.9541	6.00	-.10	83740.060	0.0	85188.950	1.0
6901.6212	10.00	-4.83	171009.340	1.0	172457.880	2.0
6902.2693	18.00	.10	121161.356	1.0	122609.760	1.0
6902.4790	6.00	-1.28	86389.380	2.0	87837.740	1.0
6902.4790	6.00	-1.55	86389.380	2.0	87837.740	2.0
6903.4799	24.01	-4.66	53051.550	1.5	54499.700	1.5
6903.7182	7.00	-2.75	112826.900	3.5	114275.000	3.5
6903.7325	12.00	-1.34	46403.065	2.0	47851.162	2.0
6904.9103	15.01	-1.31	104102.600	2.0	105550.450	2.0
6905.0057	28.01	-2.17	135512.920	2.5	136960.750	2.5
6906.2936	15.00	-2.63	66813.040	1.5	68260.600	.5
6906.6753	9.00	-3.12	128611.920	1.5	130059.400	.5
6906.7708	14.00	-2.34	62936.140	3.0	64383.600	4.0
6906.8662	6.00	-.49	84950.360	2.0	86397.800	3.0
6908.4890	7.00	-3.01	112826.900	2.5	114274.000	2.5
6908.4890	7.00	-1.65	112826.900	3.5	114274.000	2.5
6910.0170	18.01	.01	210630.120	3.5	212076.900	2.5
6911.7369	28.01	-3.47	130174.030	1.5	131620.450	1.5
6912.7405	18.01	-3.93	204951.090	3.5	206397.300	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
6912.7883	18.01	-2.06	204951.090	3.5	206397.290	4.5
6914.0313	6.00	-1.88	87103.120	1.0	88549.060	1.0
6915.6575	6.00	.15	86317.640	2.0	87763.240	3.0
6915.8009	14.00	-1.09	62545.100	1.0	63990.670	2.0
6915.8010	24.00	-2.91	53541.250	2.0	54986.820	3.0
6916.2028	18.00	-2.00	121068.804	1.0	122514.290	1.0
6916.6622	6.00	-3.01	87113.210	2.0	88558.600	1.0
6917.7630	28.01	-3.59	134067.760	1.5	135512.920	2.5
6918.5290	28.01	-3.18	130225.870	3.5	131670.870	2.5
6919.2952	27.00	-4.81	44480.140	2.5	45924.980	3.5
6920.4879	20.00	-3.90	43980.767	1.0	45425.358	1.0
6920.5405	6.00	-1.80	86317.640	2.0	87762.220	2.0
6920.6938	22.00	-3.05	33090.492	1.0	34535.040	2.0
6921.0196	6.00	.03	86317.640	2.0	87762.120	3.0
6921.1442	7.00	-.16	111165.158	1.5	112609.612	1.5
6921.1634	10.01	-4.69	322068.580	5.5	323513.030	4.5
6921.2065	7.00	-.04	111501.368	1.5	112945.809	2.5
6921.4988	14.00	-1.20	62349.930	2.0	63794.310	2.0
6922.7449	12.01	-.63	114403.550	3.5	115847.670	3.5
6922.7449	12.01	.91	114403.550	3.5	115847.670	4.5
6922.7449	12.01	.80	114403.550	2.5	115847.670	3.5
6924.4712	9.00	-1.52	128697.890	2.5	130141.650	1.5
6924.6678	18.00	-2.68	123205.830	3.0	124649.549	3.0
6924.7109	28.01	-4.59	134249.720	1.5	135693.430	2.5
6924.9507	14.00	-3.89	62954.460	3.0	64398.120	2.0
6925.2866	14.00	-2.99	62349.930	2.0	63793.520	1.0
6926.4381	28.01	-3.02	130227.520	2.5	131670.870	2.5
6927.0140	14.00	.23	61511.770	1.0	62955.000	2.0
6927.5420	14.00	-3.25	62955.000	2.0	64398.120	2.0
6927.6860	11.00	-1.53	38540.180	.5	39983.270	.5
6928.9824	28.01	-4.86	134252.850	3.5	135695.670	4.5
6929.1313	17.00	-3.19	95706.534	1.5	97149.323	.5
6929.1313	17.00	-.13	96930.181	.5	98372.970	1.5
6929.1745	6.00	-4.07	87789.630	1.0	89232.410	1.0
6929.3187	14.00	-.55	62421.030	3.0	63863.780	2.0
6929.7509	28.01	-4.80	117872.780	2.5	119315.440	2.5
6930.3610	26.00	-4.86	34636.820	2.0	36079.353	3.0
6930.3610	10.00	-.97	171032.790	3.0	172475.323	2.0
6930.8078	22.00	-4.04	47281.900	3.0	48724.340	2.0
6930.9039	14.00	-1.69	62141.800	1.0	63584.220	1.0
6931.0962	6.00	-1.36	83761.260	3.0	85203.640	2.0
6931.2883	11.00	-1.23	38540.930	1.5	39983.270	.5
6931.6151	14.00	-1.90	60381.278	1.0	61823.550	2.0
6933.5237	26.00	-3.68	46313.610	2.0	47755.485	3.0
6934.4615	18.01	-1.42	210630.120	3.5	212071.800	3.5
6935.0387	6.00	-2.92	83747.390	2.0	85188.950	1.0
6936.0539	12.00	-.86	46403.065	2.0	47844.414	1.0
6937.7338	29.01	-4.35	146575.300	2.0	148016.300	1.0
6939.4675	6.00	-1.70	87103.120	1.0	88543.760	0.0
6939.7565	28.01	-4.19	134252.850	3.5	135693.430	3.5
6940.3828	24.00	-3.74	48661.590	3.0	50102.040	3.0
6940.6238	12.01	-.61	114407.880	4.5	115848.280	4.5
6940.6238	12.01	1.12	114407.880	4.5	115848.280	5.5
6940.6238	12.01	1.03	114407.880	3.5	115848.280	4.5
6940.7683	9.00	.16	128219.130	4.5	129659.500	3.5
6941.0286	18.00	-3.32	118407.494	1.0	119847.810	1.0
6941.5394	28.01	-4.67	134053.050	2.5	135493.260	1.5
6942.1661	10.00	-3.14	170851.320	1.0	172291.400	1.0
6942.1661	10.00	-3.33	170851.320	1.0	172291.400	2.0
6942.1661	10.00	-3.14	170851.320	1.0	172291.400	1.0
6942.1661	10.00	-3.33	170851.320	1.0	172291.400	2.0
6942.6481	24.00	-4.17	48824.500	4.0	50264.480	3.0
6942.8410	6.00	-1.39	86397.800	3.0	87837.740	2.0
6942.8699	18.00	-.20	121161.356	1.0	122601.290	1.0
6943.2749	14.00	-.86	59056.508	1.0	60496.358	2.0
6943.6511	14.00	-1.43	60496.358	2.0	61936.130	1.0
6945.1079	28.01	-4.71	118563.390	3.5	120002.860	3.5
6945.2044	26.00	-3.60	50628.000	3.0	52067.450	2.0
6946.2322	14.00	-.98	49060.601	1.0	50499.838	2.0
6946.3963	26.00	-3.06	47092.693	3.0	48531.896	3.0
6946.5073	28.01	-4.74	114836.630	3.5	116275.810	3.5
6946.6039	23.00	-3.61	37959.660	2.5	39398.820	3.5
6946.7004	9.00	-1.34	128220.360	3.5	129659.500	3.5
6947.2797	6.00	.11	84950.360	2.0	86389.380	2.0
6947.7142	12.01	-2.15	114408.740	4.5	.115847.670	4.5
6947.7142	12.01	-.42	114408.740	5.5	115847.670	4.5
6947.7142	12.01	-.51	114408.740	4.5	115847.670	3.5
6948.6317	28.01	-3.80	134254.690	1.5	135693.430	2.5
6950.8541	6.00	-1.15	87103.120	1.0	88541.400	2.0
6951.3181	17.00	-.32	96945.536	2.5	98383.720	3.5
6951.3857	10.00	-1.24	171043.690	2.0	172481.860	1.0
6951.6275	10.01	-4.88	322075.380	4.5	323513.500	3.5
6952.4493	28.01	-4.81	117662.110	1.5	119100.060	1.5
6953.2713	28.01	-1.98	135461.550	2.5	136899.330	1.5
6953.5615	6.00	-.08	83497.620	2.0	84935.340	1.0
6953.9484	6.00	-.27	86389.380	2.0	87827.020	2.0
6953.9484	14.00	-1.87	62141.800	1.0	63579.440	0.0
6954.3354	6.00	-1.89	86389.380	2.0	87826.940	3.0
6955.2063	28.01	-4.35	134256.050	2.5	135693.430	2.5
6955.6418	10.00	-1.12	171913.480	0.0	173350.770	1.0
6955.9322	10.00	-1.83	171822.200	1.0	173259.430	1.0
6956.9003	18.00	-2.31	123254.990	1.0	124692.020	2.0
6957.0455	12.00	-3.22	59318.764	3.0	60755.764	2.0
6957.0455	12.00	-1.89	59318.764	3.0	60755.764	3.0
6957.0455	12.00	-2.08	59318.764	3.0	60755.764	3.0
6957.0455	12.00	-.61	59318.764	3.0	60755.764	4.0
6957.0988	12.00	-1.85	59318.775	2.0	60755.764	2.0
6957.0988	12.00	-1.13	59318.775	2.0	60755.764	3.0
6957.0988	12.00	-1.39	59318.775	2.0	60755.764	3.0
6957.1860	12.00	-.94	59318.793	1.0	60755.764	2.0
6957.8203	18.01	-4.62	201030.300	.5	202467.140	1.5
6958.1592	9.00	-3.88	128712.300	1.5	130149.070	.5
6958.4014	12.01	-1.79	114407.880	3.5	115844.600	3.5
6958.4014	12.01	-.25	114407.880	4.5	115844.600	3.5
6958.4014	12.01	-.36	114407.880	3.5	115844.600	2.5
6959.0892	22.00	-4.93	27355.042	1.0	28791.620	1.0
6959.2733	6.00	-.22	83752.410	1.0	85188.950	1.0
6959.5639	14.00	-1.75	63225.500	2.0	64661.980	3.0
6960.0000	14.00	-3.55	63488.010	3.0	64924.400	3.0
6961.5025	6.00	-1.92	86327.160	3.0	87763.240	3.0
6962.1812	6.00	.59	86327.160	3.0	87763.100	4.0
6962.5351	26.00	-4.08	46600.800	1.0	48036.667	2.0
6962.6176	6.00	-1.41	87113.210	2.0	88549.060	1.0
6962.8115	20.01	-2.13	88890.640	4.5	90326.450	4.5
6962.8115	20.01	-.40	88890.640	5.5	90326.450	4.5
6962.8115	20.01	-.49	88890.640	4.5	90326.450	3.5
6964.3637	14.00	-1.58	63488.910	4.0	64924.400	3.0
6964.4122	10.00	-4.02	170851.320	1.0	172286.800	2.0
6964.4122	10.00	-4.02	170851.320	1.0	172286.800	2.0
6964.9702	7.00	-.98	110470.244	2.5	111905.609	2.5
6966.4505	6.00	-1.88	86327.160	3.0	87762.220	2.0
6966.9360	6.00	-.53	86327.160	3.0	87762.120	3.0
6966.9360	14.00	-2.56	63489.440	2.0	64924.400	3.0
6967.1302	22.00	-1.51	41895.150	5.0	43330.070	5.0
6970.3363	6.00	-1.30	84935.340	1.0	86369.600	2.0
6970.5792	14.00	-2.47	62450.400	1.0	63884.610	1.0
6972.8643	14.00	-1.31	63490.660	3.0	64924.400	3.0
6973.8857	6.00	-1.82	88092.010	1.0	89525.540	1.0
6973.9003	7.00	-.46	111326.798	2.5	112760.325	2.5
6974.2263	15.00	-3.83	66813.040	1.5	68246.500	2.5
6975.6472	7.00	-4.35	111326.798	2.5	112759.966	1.5
6976.1730	10.00	-1.54	171822.200	1.0	173255.260	0.0
6976.5478	14.00	-1.68	59273.575	1.0	60706.558	1.0
6977.7360	22.00	-4.72	18141.229	5.0	19573.968	4.0
6978.2181	24.00	-3.67	42648.260	3.0	44080.900	2.0
6978.7589	10.00	-1.98	170858.871	3.0	172291.400	2.0
6978.7589	10.00	-1.98	170858.871	3.0	172291.400	2.0
6980.8494	7.00	-2.75	112826.900	2.5	114259.000	1.5
6981.3466	22.00	-4.16	34700.212	5.0	36132.210	4.0
6981.7757	28.01	-4.57	128869.890	5.5	130301.800	6.5
6981.9854	18.00	-2.58	123172.090	1.0	124603.957	2.0
6982.0195	6.00	-2.84	86412.050	2.0	87843.910	1.0
6982.7998	18.00	.35	119760.220	1.0	121191.920	2.0
6982.8486	6.00	-1.27	87113.210	2.0	88544.900	3.0
6982.8486	14.00	-.29	62318.700	0.0	63750.390	1.0
6983.1266	10.00	-1.75	171043.690	2.0	172475.323	2.0
6984.4584	28.01	-4.84	134262.070	3.5	135693.430	2.5
6985.3857	16.00	-.79	78691.890	1.0	80123.060	0.0
6985.5809	10.00	-1.13	171828.300	2.0	173259.430	1.0
6986.0203	18.00	-1.97	124658.520	2.0	126089.560	3.0
6986.1423	28.00	-1.31	49403.420	1.0	50834.435	2.0
6988.1933	14.00	-.13	59056.508	1.0	60487.103	1.0
6988.5597	6.00	.33	86389.380	2.0	87819.900	3.0
6989.0141	18.00	-3.33	123261.593	2.0	124692.020	2.0
6989.1948	6.00	-2.15	88092.010	1.0	89522.400	2.0
6990.1234	28.01	-3.37	130206.900	4.5	131637.100	3.5
6993.7909	14.00	-.75	62874.480	2.0	64303.930	3.0
6994.0649	20.00	-3.19	45050.419	2.0	46479.813	1.0
6994.2802	9.00	-2.51	128712.300	1.5	130141.650	1.5
6994.9164	6.00	-1.18	86397.800	3.0	87827.020	2.0
6995.3080	6.00	-.13	86397.800	3.0	87826.940	3.0
6995.3862	7.00	-.48	109856.520	1.5	111285.644	1.5
6996.8795	18.00	-2.05	123220.730	2.0	124649.549	3.0
6996.9236	28.01	-1.34	135849.410	2.5	137278.220	1.5
6997.1195	24.00	-2.85	48824.500	4.0	50253.270	5.0
6997.3154	10.00	-1.53	171830.700	1.0	173259.430	1.0
6997.3154	16.00	-.42	78690.680	2.0	80119.410	1.0
6997.4232	17.00	-4.20	94468.857	.5	95897.565	1.5
6998.7850	10.00	-4.37	171831.000	0.0	173259.430	1.0
6998.8438	10.00	-2.34	170862.982	2.0	172291.400	1.0
6998.8438	10.00	-1.77	170862.982	2.0	172291.400	2.0
6998.8438	10.00	-2.34	170862.982	2.0	172291.400	1.0
6998.8438	10.00	-1.77	170862.982	2.0	172291.400	2.0
6999.2260	6.00	-2.26	87218.260	2.0	88646.600	1.0
6999.8631	28.01	-3.55	130208.890	3.5	131637.100	3.5
6999.9611	6.00	-3.54	87113.210	2.0	88541.400	2.0
7000.4219	20.00	-3.37	47006.194	2.0	48434.290	2.0
7000.4219	20.00	-2.46	47006.194	2.0	48434.290	1.0
7000.4219	20.00	-4.74	47006.194	2.0	48434.290	3.0
7000.8435	20.00	-2.46	47006.280	3.0	48434.290	2.0
7000.8435	20.00	-3.20	47006.280	3.0	48434.290	3.0
7001.2405	10.00	-1.25	170858.871	3.0	172286.800	2.0
7001.2405	10.00	-1.25	170858.871	3.0	172286.800	2.0
7001.4122	17.00	-2.86	96945.536	2.5	98373.430	2.5
7001.4318	20.00	-2.13	47006.400	4.0	48434.290	3.0
7002.4616	28.01	-4.12	133954.850	.5	135382.530	1.5
7002.6235	12.00	-1.81	59400.763	3.0	60828.410	2.0
7002.6235	12.00	-1.19	59400.763	3.0	60828.410	2.0
7002.6235	12.00	-2.08	59400.763	2.0	60828.410	2.0
7003.2465	16.00	-.90	78691.890	1.0	80119.410	1.0
7003.6684	17.00	-1.70	96945.536	2.5	98372.970	1.5
7004.9148	6.00	-.45	84935.340	1.0	86362.520	1.0
7005.5530	28.01	-.83	120271.970	2.5	121699.020	1.5
7007.8758	28.00	-2.98	49327.560	3.0	50754.137	2.0
7008.8928	6.00	-1.98	88096.030	2.0	89522.400	2.0
7009.5317	24.00	-2.32	53782.770	4.0	55209.010	4.0
7011.5423	10.00	-3.73	171032.790	3.0	172458.621	3.0
7011.7145	12.00	-.16	57017.078	0.0	58442.874	1.0
7012.2505	7.00	-.87	111501.368	1.5	112927.055	1.5
7012.4916	10.00	-4.25	171032.790	3.0	172458.428	2.0
7013.1704	28.01	-3.79	134067.760	1.5	135493.260	1.5
7013.5001	26.00	-4.53	47106.463	4.0	48531.896	3.0
7013.5050	10.00	-2.03	171639.968	2.0	173065.400	2.0
7013.5050	10.00	-2.03	171639.968	2.0	173065.400	2.0
7013.5148	14.00	-2.29	62519.660	2.0	63945.090	3.0
7013.7608	10.00	-4.13	171671.920	1.0	173097.300	0.0
7013.7608	10.00	-4.13	171671.920	1.0	173097.300	0.0
7014.1545	12.00	-3.05	59403.110	1.0	60828.410	2.0
7014.8386	14.00	-.07	57468.239	2.0	58893.400	3.0
7014.8927	12.00	-.28	57017.724	1.0	58442.874	1.0
7014.9961	12.00	.03	57017.724	1.0	58442.853	2.0
7017.7980	10.00	-1.84	171830.700	1.0	173255.260	0.0
7018.0937	13.01	-2.01	144990.000	4.0	146414.500	4.0
7018.0937	13.01	-2.15	144990.000	4.0	146414.500	4.0
7018.0937	13.01	-.39	144990.000	5.0	146414.500	4.0
7018.0937	13.01	-4.58	144990.000	5.0	146414.500	4.0
7018.0937	13.01	-3.49	144990.000	5.0	146414.500	4.0
7018.0937	13.01	-.39	144990.000	5.0	146414.500	4.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7018.0937	13.01	-3.77	144990.000	4.0	146414.500	5.0
7018.0937	13.01	-2.03	144990.000	5.0	146414.500	5.0
7018.0937	13.01	-2.14	144990.000	5.0	146414.500	5.0
7018.0937	13.01	-.31	144990.000	6.0	146414.500	5.0
7018.0937	13.01	-.49	144990.000	4.0	146414.500	3.0
7020.5579	15.00	-2.98	76709.500	3.5	78133.500	2.5
7020.7551	10.00	-1.43	171057.900	1.0	172481.860	1.0
7021.3024	12.00	-1.46	57019.025	2.0	58442.874	1.0
7021.4060	12.00	-.45	57019.025	2.0	58442.853	2.0
7021.4553	10.00	-2.45	170862.982	2.0	172286.800	2.0
7021.4553	10.00	-2.45	170862.982	2.0	172286.800	2.0
7021.4553	12.00	.47	57019.025	2.0	58442.843	3.0
7021.8646	10.00	-2.76	170858.465	4.0	172282.200	3.0
7021.8646	10.00	-2.76	170858.465	4.0	172282.200	3.0
7022.2345	12.01	.55	108784.330	.5	110207.990	1.5
7022.2839	14.00	-1.31	62349.930	2.0	63773.580	2.0
7023.1719	23.00	-4.79	36580.460	1.5	38003.930	1.5
7023.2754	10.00	-1.83	170867.951	1.0	172291.400	1.0
7023.2754	10.00	-2.65	170867.951	1.0	172291.400	2.0
7023.2754	10.00	-1.83	170867.951	1.0	172291.400	1.0
7023.2754	10.00	-2.65	170867.951	1.0	172291.400	2.0
7023.7146	14.00	-1.03	62349.930	2.0	63773.290	3.0
7023.8676	10.00	-1.95	170858.871	3.0	172282.200	3.0
7023.8676	10.00	-1.95	170858.871	3.0	172282.200	3.0
7024.2920	10.00	-2.68	171642.157	2.0	173065.400	2.0
7024.2920	10.00	-2.68	171642.157	2.0	173065.400	2.0
7024.4055	28.01	-2.24	130197.230	1.5	131620.450	1.5
7024.9979	6.00	-1.21	88096.030	2.0	89519.130	3.0
7025.7236	10.00	-1.17	171642.447	3.0	173065.400	2.0
7025.7236	10.00	-1.17	171642.447	3.0	173065.400	2.0
7026.0347	14.00	-1.30	62874.480	2.0	64297.370	3.0
7026.1236	18.00	-2.78	119847.810	1.0	121270.682	2.0
7026.4248	22.00	-2.57	36132.210	4.0	37555.021	3.0
7029.4435	6.00	.48	86397.800	3.0	87820.000	4.0
7029.9377	6.00	-.44	86397.800	3.0	87819.900	3.0
7030.0366	9.00	-.97	128184.990	.5	129607.070	.5
7030.1849	10.00	-1.43	171148.780	0.0	172570.830	1.0
7030.4816	14.00	-2.92	62596.320	2.0	64018.310	1.0
7030.5310	28.01	-4.31	134271.590	4.5	135693.570	4.5
7030.5310	14.00	-1.61	63225.500	2.0	64647.480	3.0
7030.9117	7.00	-.46	111143.567	.5	112565.470	.5
7031.4210	7.00	-1.31	112868.700	3.5	114290.500	2.5
7031.9000	3.00	.47	39016.000	0.0	40438.091	0.0
7032.2124	10.00	-1.75	171060.220	2.0	172481.860	1.0
7032.4103	28.01	-2.97	130215.500	4.5	131637.100	3.5
7033.1524	16.00	-.88	78690.680	2.0	80112.130	2.0
7033.9936	14.00	-4.09	63225.500	2.0	64646.780	2.0
7034.6370	10.00	-3.97	169727.630	1.0	171148.780	0.0
7034.7509	26.00	-3.65	49558.500	4.0	50979.627	4.0
7034.8846	7.00	-4.09	112826.900	2.5	114248.000	3.5
7034.8846	7.00	-2.30	112826.900	3.5	114248.000	3.5
7035.4291	16.00	-.14	78691.140	3.0	80112.130	2.0
7035.5777	18.00	-2.21	124643.540	1.0	126064.500	2.0
7037.2219	22.00	-2.64	33114.412	2.0	34535.040	2.0
7037.5588	6.00	-3.02	86411.980	3.0	87832.540	2.0
7037.7569	10.00	-2.93	171644.880	1.0	173065.400	2.0
7037.7569	10.00	-2.93	171644.880	1.0	173065.400	2.0
7037.7767	7.00	.48	111260.873	3.5	112681.389	2.5
7037.8758	28.00	-2.88	50851.220	1.0	52271.716	2.0
7037.9056	6.00	-3.70	86412.050	2.0	87832.540	2.0
7038.0542	24.00	-2.84	42648.260	3.0	44068.720	3.0
7038.5299	7.00	-1.26	111271.596	.5	112691.960	.5
7039.1444	16.00	-2.06	78691.890	1.0	80112.130	2.0
7039.7095	10.00	-3.97	170848.274	0.0	172268.400	1.0
7039.7095	10.00	-3.97	170848.274	0.0	172268.400	1.0
7040.3341	13.01	-.38	138496.700	1.0	139916.700	1.0
7041.7722	18.01	-3.54	204977.590	2.5	206397.300	3.5
7043.1117	28.01	-4.99	134267.200	6.5	135686.640	6.5
7043.1117	28.01	-3.21	134267.200	6.5	135686.640	7.5
7044.0546	12.01	.25	108784.330	.5	110203.580	.5
7044.1042	6.00	-.27	84950.360	2.0	86369.600	2.0
7044.2134	10.00	-2.68	170862.982	2.0	172282.200	3.0
7044.2134	10.00	-2.68	170862.982	2.0	172282.200	3.0
7044.3027	15.02	-.76	213982.800	2.5	215402.000	2.5
7044.3027	15.02	.54	213982.800	2.5	215402.000	3.5
7044.3027	15.02	.39	213982.800	1.5	215402.000	2.5
7044.5558	20.00	-2.76	47015.141	3.0	48434.290	2.0
7045.5438	28.01	-4.60	134274.620	5.5	135693.570	4.5
7046.0453	10.00	-2.79	170867.951	1.0	172286.800	2.0
7046.0453	10.00	-2.79	170867.951	1.0	172286.800	2.0
7046.6364	23.00	-4.36	38003.930	1.5	39422.660	2.5
7047.5703	10.00	-1.51	170872.858	2.0	172291.400	1.0
7047.5703	10.00	-1.67	170872.858	2.0	172291.400	2.0
7047.5703	10.00	-1.51	170872.858	2.0	172291.400	1.0
7047.5703	10.00	-1.67	170872.858	2.0	172291.400	2.0
7047.5802	6.00	-2.36	87218.260	2.0	88636.800	2.0
7048.1765	6.00	-1.04	88092.010	1.0	89510.430	2.0
7048.2311	7.00	-3.79	112826.900	3.5	114245.309	4.5
7048.6734	28.01	-3.99	134783.140	2.5	136201.460	3.5
7049.4090	10.00	-2.16	170873.228	3.0	172291.400	2.0
7049.4090	10.00	-2.16	170873.228	3.0	172291.400	2.0
7049.5184	19.00	-.32	33178.120	2.5	34596.270	1.5
7049.6674	6.00	-4.08	86412.050	2.0	87830.170	1.0
7050.0155	25.00	-4.81	43595.500	2.5	45013.550	2.5
7050.0155	6.00	-3.13	86414.490	3.0	87832.540	2.0
7050.0652	19.00	-1.28	33178.230	1.5	34596.270	1.5
7050.0652	19.00	-.58	33178.230	1.5	34596.270	.5
7050.7016	28.00	-2.72	49271.578	3.0	50689.490	2.0
7052.6514	28.01	-4.25	53601.190	1.5	55018.710	2.5
7052.8007	14.00	-2.09	62376.820	3.0	63794.310	2.0
7053.1341	10.00	-2.13	171057.900	1.0	172475.323	2.0
7053.4973	10.00	-3.82	171043.690	2.0	172461.040	1.0
7054.2439	6.00	-.18	83752.410	1.0	85169.610	0.0
7054.6421	10.00	-1.43	171148.780	0.0	172565.900	1.0
7054.6919	9.00	-2.53	128520.220	.5	129937.330	1.5
7054.8412	10.00	-2.95	170851.320	1.0	172268.400	1.0
7054.8412	10.00	-2.95	170851.320	1.0	172268.400	1.0
7054.9458	12.00	-1.15	59689.991	2.0	61107.050	2.0
7054.9458	12.00	-.44	59689.991	2.0	61107.050	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7054.9458	12.00	-.70	59689.991	2.0	61107.050	3.0
7055.4387	18.01	-4.04	205214.710	3.5	206631.670	2.5
7055.5981	22.00	-2.65	36200.940	5.0	37617.868	4.0
7059.4344	28.00	-2.85	42790.027	2.0	44206.185	3.0
7059.7734	14.00	-2.50	62935.760	3.0	64351.850	3.0
7063.3647	28.01	-3.91	119909.720	1.5	121325.090	2.5
7063.5693	17.00	-1.91	94482.236	2.5	95897.565	1.5
7063.6641	21.00	-4.13	35671.000	1.5	37086.310	1.5
7064.4627	20.01	-1.70	88884.540	3.5	90299.690	3.5
7064.4627	20.01	-.15	88884.540	4.5	90299.690	3.5
7064.4627	20.01	-.27	88884.540	3.5	90299.690	2.5
7064.6974	10.00	-1.24	171060.220	2.0	172475.323	2.0
7064.8322	7.00	.01	109856.520	1.5	111271.596	.5
7065.0119	14.00	-1.85	62936.810	4.0	64351.850	3.0
7065.1167	17.00	-1.75	97004.081	1.5	98419.100	2.5
7065.5561	10.00	-2.38	171043.690	2.0	172458.621	3.0
7065.8607	6.00	-1.09	88096.030	2.0	89510.900	3.0
7066.0106	28.01	-4.30	75917.630	3.5	77332.470	2.5
7066.0605	22.00	-1.05	42052.720	3.0	43467.550	2.0
7066.5201	10.00	-3.23	171043.690	2.0	172458.428	2.0
7066.6349	14.00	-.99	60962.105	2.0	62376.820	3.0
7067.0595	26.00	-1.62	50045.900	2.0	51460.530	3.0
7067.3943	14.00	.14	57372.297	2.0	58786.860	3.0
7067.9089	26.00	-4.49	54683.390	4.0	56097.850	3.0
7068.2087	6.00	-2.26	88096.030	2.0	89510.430	2.0
7068.3287	10.00	-3.95	171682.924	1.0	173097.300	0.0
7068.3287	10.00	-3.95	171682.924	1.0	173097.300	0.0
7069.2583	10.00	-4.46	171043.690	2.0	172457.880	2.0
7069.4133	26.00	-3.84	49804.900	3.0	51219.059	3.0
7069.9582	9.00	-4.74	128523.280	1.5	129937.330	1.5
7070.4983	10.00	-1.77	170872.858	2.0	172286.800	2.0
7070.4983	10.00	-1.77	170872.858	2.0	172286.800	2.0
7072.3490	10.00	-2.01	170873.228	3.0	172286.800	2.0
7072.3490	10.00	-2.01	170873.228	3.0	172286.800	2.0
7072.9594	18.00	-3.56	124651.050	1.0	126064.500	2.0
7073.3097	14.00	-1.11	62450.400	1.0	63863.780	2.0
7073.6099	14.00	-1.22	61305.670	1.0	62718.990	0.0
7076.0633	6.00	.29	84984.970	3.0	86397.800	3.0
7076.4139	26.01	-3.43	86124.140	4.5	87536.900	3.5
7077.1653	7.00	-2.01	112877.890	3.5	114290.500	2.5
7077.2153	6.00	.38	83791.040	2.0	85203.640	2.0
7078.2175	29.01	-3.64	146575.300	2.0	147987.700	2.0
7078.8691	14.00	-.27	62349.930	2.0	63762.200	3.0
7079.4205	14.00	-3.45	62985.960	1.0	64398.120	2.0
7079.4205	6.00	-.93	84950.360	2.0	86362.520	1.0
7080.1224	28.01	-3.80	134274.620	5.5	135686.640	6.5
7080.3230	9.00	-.09	128525.350	2.5	129937.330	1.5
7081.1755	28.01	-3.53	134053.050	2.5	135464.860	3.5
7081.2257	14.00	-4.27	62986.320	2.0	64398.120	2.0
7081.3260	18.01	-2.36	205212.020	4.5	206623.800	3.5
7082.0584	26.00	-.82	50698.666	2.0	52110.300	1.0
7082.7006	14.00	-.95	61574.814	3.0	62986.320	2.0
7084.0858	28.01	-2.80	130225.870	3.5	131637.100	3.5
7084.3268	26.00	-3.66	43922.652	3.0	45333.834	2.0
7084.5326	26.00	-4.33	45333.834	2.0	46744.975	3.0
7085.3410	26.00	-4.71	50803.350	2.0	52214.330	1.0
7085.8683	26.00	-.39	50534.435	3.0	51945.310	2.0
7086.4258	7.00	-1.46	111198.848	.5	112609.612	1.5
7086.9734	18.00	-.57	121068.804	1.0	122479.459	1.0
7087.7773	22.00	-4.20	27418.015	2.0	28828.510	2.0
7089.2600	18.01	-.73	205221.470	1.5	206631.670	2.5
7089.4460	7.00	-.86	111326.798	2.5	112736.961	1.5
7089.7124	18.01	-2.32	209248.550	2.5	210658.660	2.5
7089.8633	18.01	-3.91	204937.800	4.5	206347.880	4.5
7090.1147	18.01	-1.60	204937.800	4.5	206347.830	5.5
7090.2656	7.00	-4.66	112880.500	2.5	114290.500	2.5
7090.2656	18.01	-3.66	209248.550	2.5	210658.550	1.5
7091.3720	14.00	-1.21	62231.990	2.0	63641.770	3.0
7091.7896	20.00	-1.49	45425.358	1.0	46835.055	0.0
7091.9253	18.00	-4.64	124643.540	1.0	126053.210	2.0
7092.2775	15.00	-2.35	76659.400	2.5	78069.000	1.5
7092.3782	28.01	-3.57	130227.520	2.5	131637.100	3.5
7092.5795	18.01	-3.79	203007.690	1.5	204417.230	1.5
7093.1984	18.00	-.62	119847.810	1.0	121257.227	1.0
7093.5759	10.00	-2.50	170872.858	2.0	172282.200	3.0
7093.5759	10.00	-2.50	170872.858	2.0	172282.200	3.0
7093.9786	7.00	-.80	111501.368	1.5	112910.630	2.5
7094.8445	18.01	-2.63	205214.710	3.5	206623.800	3.5
7094.8445	18.01	-2.17	205214.710	4.5	206623.800	3.5
7095.4387	10.00	-2.32	170873.228	3.0	172282.200	3.0
7095.4387	10.00	-2.32	170873.228	3.0	172282.200	3.0
7097.3126	15.00	-1.26	76425.200	2.5	77833.800	1.5
7097.8164	28.01	-3.58	134053.050	2.5	135461.550	2.5
7100.4277	28.00	-1.43	50789.500	4.0	52197.482	3.0
7101.4465	6.00	-4.82	87762.220	2.0	89170.000	1.0
7101.6988	29.01	-2.40	133727.870	2.0	135135.600	1.0
7101.8097	7.00	-4.50	111501.368	1.5	112909.076	1.5
7102.4556	9.02	-.84	465414.140	2.5	466821.720	3.5
7103.1116	17.00	-1.18	100185.220	1.5	101592.670	.5
7104.3735	18.01	-3.62	209251.460	3.5	210658.660	2.5
7104.4240	28.01	-3.87	134286.380	4.5	135693.570	5.5
7105.3329	10.01	-4.39	302192.920	4.5	303599.930	3.5
7106.3430	22.00	-4.41	39149.260	2.0	40556.070	1.0
7106.6966	6.00	-.48	87218.260	2.0	88625.000	3.0
7107.9599	14.00	-.54	62376.820	3.0	63783.310	4.0
7107.9700	17.00	-1.17	95597.593	.5	97004.081	1.5
7108.4147	28.01	-4.36	107142.210	1.5	108548.610	1.5
7108.6169	23.00	-3.50	37834.980	1.5	39241.340	2.5
7108.8393	7.00	-.56	111285.644	1.5	112691.960	.5
7108.9202	7.00	-2.04	112868.700	3.5	114275.000	3.5
7110.0830	28.01	-1.92	135493.260	1.5	136899.330	1.5
7110.2903	7.00	-1.67	110447.032	1.5	111853.061	1.5
7110.5382	18.00	-3.02	124658.520	2.0	126064.500	2.0
7111.3474	21.00	-4.54	37553.340	2.5	38959.160	3.5
7112.4807	7.00	.15	111204.016	2.5	112609.612	1.5
7112.7641	23.00	-4.33	36700.780	2.5	38106.320	2.5
7113.3816	10.00	-1.98	170862.982	2.0	172268.400	1.0
7113.3816	10.00	-1.98	170862.982	2.0	172268.400	1.0
7113.9788	7.00	-3.73	112826.900	2.5	114232.200	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7113.9788	7.00	-2.13	112868.700	3.5	114274.000	2.5
7115.1433	26.02	-4.54	200514.460	4.0	201919.530	4.0
7117.9954	12.00	-.75	58476.689	0.0	59881.196	1.0
7118.4871	6.00	-.86	84984.970	3.0	86389.380	2.0
7118.6392	28.01	-3.04	116468.400	1.5	117872.780	2.5
7119.6531	9.00	-3.28	128611.920	1.5	130016.100	2.5
7119.6734	12.00	-.87	58477.020	1.0	59881.196	1.0
7119.7494	12.00	-.56	58477.020	1.0	59881.181	2.0
7120.1246	18.00	-2.01	123205.830	3.0	124609.917	4.0
7123.4274	12.00	-2.05	58477.760	2.0	59881.196	1.0
7123.5035	12.00	-1.04	58477.760	2.0	59881.181	2.0
7123.5695	12.00	-.12	58477.760	2.0	59881.168	3.0
7124.3208	18.00	-2.65	123385.130	0.0	124788.390	1.0
7124.4224	28.01	-4.01	99844.130	3.5	101247.370	2.5
7124.8591	14.00	-.88	57372.297	2.0	58775.451	2.0
7124.9301	10.00	-2.97	171057.900	1.0	172461.040	1.0
7125.1333	13.01	.39	144781.900	3.0	146185.000	2.0
7125.1333	13.01	-.51	144781.900	3.0	146185.000	3.0
7127.5106	7.00	-1.05	111501.368	1.5	112904.000	.5
7127.6224	24.00	-2.34	42648.260	3.0	44050.870	4.0
7128.4864	22.00	-2.77	40556.070	1.0	41958.510	2.0
7128.6846	10.00	-3.96	170288.959	2.0	171691.360	3.0
7128.6897	19.02	-3.36	243120.600	2.5	244523.000	2.5
7128.7253	22.00	-3.90	27480.047	3.0	28882.440	3.0
7129.5031	6.00	-4.05	87830.170	1.0	89232.410	1.0
7129.9099	18.00	-2.05	124651.050	1.0	126053.210	2.0
7130.3625	14.00	-1.63	57372.297	2.0	58774.368	3.0
7130.9779	14.00	-2.56	61823.550	2.0	63225.500	2.0
7132.3362	10.00	-3.86	170289.677	3.0	171691.360	4.0
7134.7439	18.01	-3.67	204996.090	3.5	206397.300	3.5
7134.7947	18.01	-2.42	204996.090	3.5	206397.290	4.5
7135.0443	10.00	-4.42	170288.959	2.0	171690.110	2.0
7135.6197	7.00	-1.42	109812.233	.5	111213.271	1.5
7136.7302	10.00	-3.82	171060.220	2.0	172461.040	1.0
7136.8780	10.00	-4.57	170289.319	2.0	171690.110	2.0
7136.8780	10.00	-3.43	170289.319	2.0	171690.110	3.0
7138.6209	10.00	-2.42	170867.951	1.0	172268.400	1.0
7138.6209	10.00	-2.42	170867.951	1.0	172268.400	1.0
7138.7024	10.00	-4.28	170289.677	3.0	171690.110	3.0
7139.3193	7.00	-.45	111165.158	1.5	112565.470	.5
7139.3805	28.01	-4.29	116261.810	.5	117662.110	1.5
7139.9413	28.01	-4.05	116893.980	2.5	118294.170	3.5
7140.2116	7.00	.43	109926.661	2.5	111326.798	2.5
7140.5533	29.01	-3.08	134359.900	1.0	135759.970	2.0
7141.0124	10.00	-2.82	171057.900	1.0	172457.880	2.0
7141.0124	6.00	-4.95	87762.220	2.0	89162.200	2.0
7141.5735	6.00	-3.02	87832.540	2.0	89232.410	1.0
7141.8081	8.00	-4.66	105385.389	3.0	106785.213	3.0
7141.8081	8.00	-3.59	105385.389	3.0	106785.213	4.0
7141.9000	8.00	-1.28	105385.366	4.0	106785.172	3.0
7141.9000	8.00	-.10	105385.366	4.0	106785.172	4.0
7141.9000	8.00	.77	105385.366	4.0	106785.172	5.0
7141.9714	8.00	-4.72	105385.421	2.0	106785.213	2.0
7141.9714	8.00	-3.82	105385.421	2.0	106785.213	3.0
7142.0174	8.00	-.97	105385.389	3.0	106785.172	2.0
7142.0174	8.00	.05	105385.389	3.0	106785.172	3.0
7142.0174	8.00	.60	105385.389	3.0	106785.172	4.0
7142.1092	8.00	-4.37	105385.448	1.0	106785.213	2.0
7142.1806	8.00	-.97	105385.421	2.0	106785.172	1.0
7142.1806	8.00	.03	105385.421	2.0	106785.172	2.0
7142.1806	8.00	.41	105385.421	2.0	106785.172	3.0
7142.3184	8.00	-.13	105385.448	1.0	106785.172	1.0
7142.3184	8.00	.17	105385.448	1.0	106785.172	2.0
7142.3847	8.00	-.13	105385.461	0.0	106785.172	1.0
7142.4409	6.00	.35	86362.520	1.0	87762.220	2.0
7143.8087	26.00	-4.34	49135.003	3.0	50534.435	3.0
7143.9720	19.02	-3.67	242548.000	.5	243947.400	1.5
7144.3294	28.01	-3.90	137529.370	6.5	138928.700	7.5
7144.5490	13.00	-3.22	45194.663	2.5	46593.950	2.5
7144.5490	13.00	-1.91	45194.663	3.5	46593.950	2.5
7144.9932	18.01	-4.39	204937.800	4.5	206337.000	3.5
7145.8614	26.00	-4.21	53160.530	3.0	54559.560	3.0
7146.2189	6.00	-4.01	87763.240	3.0	89162.200	2.0
7146.9852	10.01	-4.88	302425.870	1.5	303824.680	2.5
7147.7671	13.00	-2.07	45194.663	2.5	46593.320	1.5
7148.6717	22.00	-.91	42184.660	4.0	43583.140	3.0
7148.8762	28.01	-4.72	134294.990	2.5	135693.430	2.5
7149.0756	10.00	-3.25	171060.220	2.0	172458.621	3.0
7150.0624	10.00	-2.83	171060.220	2.0	172458.428	2.0
7150.4767	18.00	-3.46	123205.830	3.0	124603.957	2.0
7150.5635	14.01	.64	123097.890	.5	124496.000	1.5
7151.5867	6.00	-.23	83791.040	2.0	85188.950	1.0
7152.8658	10.00	-4.12	171060.220	2.0	172457.880	2.0
7152.9682	18.00	-1.39	123385.130	0.0	124782.770	1.0
7153.5107	7.00	-1.58	110103.834	1.5	111501.368	1.5
7154.2478	14.00	-2.71	62954.460	3.0	64351.850	3.0
7154.7035	10.00	-4.89	170289.319	2.0	171686.620	1.0
7154.7035	10.00	-3.94	170289.319	2.0	171686.620	2.0
7155.4461	18.00	-1.78	123468.034	1.0	124865.190	2.0
7155.6305	7.00	-1.82	112877.880	4.5	114275.000	3.5
7155.6612	26.00	-2.94	45608.341	6.0	47005.455	5.0
7155.6817	7.00	-2.59	112877.890	3.5	114275.000	3.5
7157.0136	14.00	-3.29	62955.000	2.0	64351.850	3.0
7157.1110	9.00	-.82	128087.829	2.5	129484.660	1.5
7157.3210	18.01	-1.96	204951.090	3.5	206347.880	4.5
7157.4748	14.00	-2.78	62376.820	3.0	63773.580	2.0
7157.5261	6.00	-.65	87218.260	2.0	88615.010	1.0
7158.7048	28.01	-3.28	134281.660	5.5	135678.180	6.5
7158.9612	14.00	-1.65	62376.820	3.0	63773.290	3.0
7159.1098	26.00	-4.53	48036.667	2.0	49433.108	2.0
7159.1149	27.00	-3.34	44480.140	2.5	45876.580	2.5
7159.6225	7.00	-.75	111213.271	1.5	112609.612	1.5
7159.8840	6.00	-.49	84935.340	1.0	86331.630	1.0
7160.8072	7.00	-1.50	112877.890	3.5	114274.000	2.5
7161.2688	24.00	-4.00	48661.590	3.0	50057.610	2.0
7162.2025	26.00	-4.03	47136.058	2.0	48531.896	3.0
7162.6797	7.00	-.16	111285.644	1.5	112681.389	2.5
7163.7217	10.00	-2.16	170872.858	2.0	172268.400	1.0
7163.7217	10.00	-2.16	170872.858	2.0	172268.400	1.0

WAVELENGTH	ELEM	LOGCF	ELO	JLO	EUP	JUP
7163.9373	6.00	-3.41	87103.120	1.0	88498.620	2.0
7165.1798	17.00	-.51	95534.923	.5	96930.181	.5
7166.7618	6.00	-2.31	86411.980	3.0	87806.930	3.0
7167.1215	6.00	-4.76	86412.050	2.0	87806.930	3.0
7167.5840	14.00	-1.93	63488.010	3.0	64882.800	2.0
7168.0979	18.00	-3.07	124658.520	2.0	126053.210	2.0
7160.3549	14.02	.04	242473.860	4.0	243868.500	3.0
7169.0900	14.00	-.38	60487.103	1.0	61881.600	1.0
7169.8458	14.00	-3.13	62596.320	2.0	63990.670	2.0
7170.4114	14.00	-.92	62450.400	1.0	63844.640	0.0
7170.4629	14.02	.13	242474.270	4.0	243868.500	3.0
7171.1007	10.00	-3.93	170296.004	1.0	171690.110	2.0
7172.7265	28.01	-3.37	134067.760	1.5	135461.550	2.5
7172.8294	6.00	-3.08	86369.470	4.0	87763.240	3.0
7173.1897	12.00	-1.03	58009.410	0.0	59403.110	1.0
7173.3132	14.00	-.73	61574.814	3.0	62968.490	4.0
7173.5500	6.00	-1.97	86369.470	4.0	87763.100	4.0
7173.8073	6.00	-3.47	87762.120	3.0	89155.700	3.0
7173.9464	8.00	.11	103625.766	1.0	105019.319	2.0
7174.2192	7.00	-3.01	112880.500	2.5	114274.000	2.5
7174.3222	10.00	-4.52	171671.920	1.0	173065.400	2.0
7174.3222	10.00	-4.52	171671.920	1.0	173065.400	2.0
7174.9400	14.00	-1.91	63489.440	2.0	64882.800	2.0
7175.7847	8.00	.33	103626.123	2.0	105019.319	2.0
7177.1240	17.00	-2.47	98372.970	1.5	99765.906	2.5
7177.1550	28.01	-2.25	130227.520	2.5	131620.450	1.5
7177.3096	8.01	-1.60	254590.700	4.5	255983.600	4.5
7177.4641	12.00	-1.48	59342.510	1.0	60735.380	1.0
7177.4641	12.00	-2.65	59342.510	2.0	60735.380	1.0
7177.4641	12.00	-1.17	59342.510	1.0	60735.380	2.0
7177.4641	12.00	-1.35	59342.510	0.0	60735.380	1.0
7177.4641	12.00	-1.65	59342.510	2.0	60735.380	2.0
7177.4641	12.00	-.73	59342.510	2.0	60735.380	3.0
7177.7217	10.00	-4.08	172215.720	3.0	173608.540	3.0
7177.7217	10.00	-2.69	172215.720	4.0	173608.540	3.0
7177.8246	10.00	-2.82	172215.720	3.0	173608.520	2.0
7177.8867	10.00	-.09	169482.972	0.0	170875.760	1.0
7178.3609	8.00	.48	103626.623	3.0	105019.319	2.0
7178.5980	6.00	-3.31	86369.470	4.0	87762.120	3.0
7178.8557	6.00	-3.35	87763.100	4.0	89155.700	3.0
7179.4950	17.00	-3.59	98373.430	2.5	99765.906	2.5
7179.5774	6.00	-4.75	87763.240	3.0	89155.700	3.0
7179.6806	6.00	-2.44	86414.490	3.0	87806.930	3.0
7180.2169	16.00	.67	76463.160	2.0	77855.496	3.0
7180.6862	10.00	-.91	169488.415	1.0	170880.660	2.0
7180.7120	6.00	-1.10	86414.690	4.0	87806.930	3.0
7181.2278	14.00	-.87	63490.660	3.0	64882.800	2.0
7182.0068	55.00	.13	24317.151	0.0	25709.519	0.0
7183.3743	17.00	-2.49	95612.357	1.5	97004.081	1.5
7183.6840	26.00	-3.13	53733.310	3.0	55124.974	3.0
7184.2932	10.00	-3.98	170689.370	0.0	172080.916	1.0
7184.9438	28.01	-2.58	134053.050	2.5	135444.470	3.5
7185.8733	14.00	-3.70	63225.500	2.0	64616.740	2.0
7187.1649	25.00	-4.31	51718.220	1.5	53109.210	2.5
7187.8366	12.01	-1.30	114403.550	2.5	115794.410	2.5
7187.8366	12.01	0.00	114403.550	3.5	115794.410	2.5
7187.8366	12.01	-.15	114403.550	2.5	115794.410	1.5
7189.0978	10.00	-4.21	170296.004	1.0	171686.620	1.0
7189.4907	6.00	-1.69	88061.280	1.0	89451.820	1.0
7190.6284	17.00	-.88	100202.350	.5	101592.670	.5
7191.3008	18.01	-1.38	201030.300	.5	202420.490	.5
7191.9734	17.00	-.42	100202.610	1.5	101592.670	.5
7193.8313	12.00	-1.15	47957.028	2.0	49346.729	1.0
7193.9969	10.00	-3.27	171675.731	3.0	173065.400	2.0
7193.9969	10.00	-3.27	171675.731	3.0	173065.400	2.0
7195.4622	18.00	-.88	123468.034	1.0	124857.420	2.0
7196.2391	18.00	-.94	123468.034	1.0	124857.270	1.0
7196.8193	16.00	.52	76463.160	2.0	77852.284	2.0
7198.2910	28.01	-4.09	132225.150	1.5	133613.990	1.5
7199.7943	6.00	-1.90	86449.190	3.0	87837.740	2.0
7199.8462	6.00	-3.37	87218.260	2.0	88606.800	3.0
7200.0537	6.00	-1.98	87843.910	1.0	89232.410	1.0
7201.6096	18.01	-2.92	203197.440	3.5	204585.640	2.5
7201.8794	18.00	-2.47	118459.662	1.0	119847.810	1.0
7202.8756	18.00	-3.28	123261.593	2.0	124649.549	3.0
7203.5555	14.00	-.19	60962.105	2.0	62349.930	2.0
7204.1317	14.00	-2.80	59917.336	2.0	61305.050	3.0
7204.6821	17.00	-4.14	100146.822	3.5	101534.430	4.5
7205.6583	26.00	-.41	49804.900	3.0	51192.320	4.0
7205.7622	15.00	-3.45	72884.400	2.5	74271.800	1.5
7206.0478	10.00	-.22	169488.415	1.0	170875.760	1.0
7206.0478	10.00	.23	169488.415	1.0	170875.760	2.0
7206.1777	18.01	-.76	191169.520	1.5	192556.840	2.5
7206.5933	9.00	-.91	128219.830	1.5	129607.070	.5
7207.8402	13.01	-1.83	146185.000	1.0	147572.000	1.0
7207.8402	13.01	-1.61	146185.000	1.0	147572.000	0.0
7207.8402	13.01	-2.91	146185.000	1.0	147572.000	2.0
7207.8402	13.01	-1.35	146185.000	2.0	147572.000	1.0
7207.8402	13.01	-1.74	146185.000	2.0	147572.000	2.0
7207.8402	13.01	-.99	146185.000	3.0	147572.000	2.0
7208.1157	14.00	-.50	59917.336	2.0	61304.283	2.0
7208.2560	15.00	-3.89	65157.200	2.5	66544.120	2.5
7208.8798	8.01	.18	254590.700	4.5	255977.500	5.5
7209.7636	16.00	.30	76463.160	2.0	77849.790	1.0
7209.8156	21.00	-4.25	36330.490	2.5	37717.110	3.5
7209.8416	7.00	-1.12	109812.233	.5	111198.848	.5
7209.9196	6.00	-.22	84935.340	1.0	86321.940	0.0
7209.9716	6.00	-2.42	88135.810	3.0	89522.400	2.0
7210.0756	22.00	-2.29	44858.030	1.0	46244.600	2.0
7210.4916	6.00	-4.10	87218.260	2.0	88604.750	2.0
7210.9076	28.01	-1.74	135512.920	2.5	136899.330	1.5
7211.1157	24.00	-3.13	48824.500	4.0	50210.870	4.0
7212.0625	17.00	-3.80	100146.822	3.5	101533.010	2.5
7212.4163	6.00	-1.37	88061.280	1.0	89447.400	2.0
7212.5204	14.00	-2.44	62376.820	3.0	63762.920	4.0
7212.8066	14.00	.60	59917.336	2.0	61303.381	3.0
7213.5092	18.01	-3.12	204951.090	3.5	206337.000	3.5
7214.1858	18.01	-4.92	204951.090	3.5	206336.870	2.5
7214.6492	18.00	.18	119683.113	2.0	121068.804	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7215.5917	6.00	-2.30	87846.900	0.0	89232.410	1.0
7216.1125	6.00	-2.59	87113.210	2.0	88498.620	2.0
7216.2688	14.00	-2.29	62376.820	3.0	63762.200	3.0
7216.9876	14.00	-.01	60496.358	2.0	61881.600	1.0
7218.4051	25.00	-4.44	51718.220	1.5	53103.190	1.5
7220.1776	6.00	.44	84984.970	3.0	86369.600	2.0
7220.8555	6.00	.92	84984.970	3.0	86369.470	4.0
7221.6327	22.00	-4.70	18037.225	4.0	19421.576	3.0
7223.2136	10.00	-4.47	171681.352	2.0	173065.400	2.0
7223.2136	10.00	-4.47	171681.352	2.0	173065.400	2.0
7223.3598	24.00	-2.38	44259.360	3.0	45643.380	3.0
7223.6730	28.01	-4.90	135382.530	1.5	136766.490	2.5
7224.0331	26.00	-4.14	52682.930	2.0	54066.821	2.0
7225.7615	14.00	-1.84	61841.940	2.0	63225.500	2.0
7226.0226	27.00	-1.55	43398.620	3.5	44782.130	4.5
7226.0226	6.00	-1.97	83820.130	1.0	85203.640	2.0
7226.8061	14.00	-1.86	62968.490	4.0	64351.850	3.0
7227.0150	6.00	-1.92	88135.810	3.0	89519.130	3.0
7227.2763	25.00	-4.69	55107.520	3.5	56490.790	2.5
7227.5010	18.00	-4.13	123220.730	2.0	124603.957	2.0
7229.4713	14.00	-.74	62921.080	2.0	64303.930	3.0
7229.4765	18.00	-2.59	123172.090	1.0	124554.939	1.0
7229.6439	7.00	-1.50	110470.244	2.5	111853.061	1.5
7230.7263	7.01	-.52	209673.650	2.0	211056.260	3.0
7231.0401	27.00	-4.09	50712.450	2.5	52095.000	3.5
7231.4271	10.00	-4.60	171682.924	1.0	173065.400	2.0
7231.4271	10.00	-4.60	171682.924	1.0	173065.400	2.0
7232.0339	18.01	-3.98	190592.170	1.5	191974.530	1.5
7232.3479	6.00	.43	84935.340	1.0	86317.640	2.0
7232.9444	17.00	-1.16	98383.720	3.5	99765.906	2.5
7233.2898	22.00	-2.68	40670.600	2.0	42052.720	3.0
7234.4413	15.00	-4.82	78133.500	2.5	79515.400	3.5
7235.0696	6.00	-4.65	87762.120	3.0	89143.900	3.0
7235.1743	25.00	-4.64	55186.170	2.5	56567.930	1.5
7235.5933	6.00	-4.94	87762.220	2.0	89143.900	3.0
7235.8027	18.01	-2.07	205250.030	3.5	206631.670	2.5
7236.1693	18.01	-1.98	209248.550	2.5	210630.120	3.5
7236.5360	18.01	-4.81	209248.550	2.5	210630.050	2.5
7237.4581	10.00	-1.69	169501.636	4.0	170882.960	3.0
7237.4581	10.00	-.15	169501.636	4.0	170882.960	4.0
7237.7410	6.00	.12	84950.360	2.0	86331.630	1.0
7240.0997	9.02	-3.39	443625.310	2.5	445006.130	2.5
7240.2045	6.00	-2.97	87763.100	4.0	89143.900	3.0
7240.8548	10.00	-.25	169502.284	3.0	170882.960	3.0
7240.8548	10.00	-1.97	169502.284	3.0	170882.960	4.0
7240.9387	6.00	-3.76	87763.240	3.0	89143.900	3.0
7241.5681	6.00	-4.42	87762.120	3.0	89142.660	2.0
7241.8357	26.00	-5.00	50456.790	3.0	51837.279	3.0
7242.0927	6.00	-3.53	87762.220	2.0	89142.660	2.0
7242.3026	29.01	-2.27	137212.700	1.0	138593.100	1.0
7243.4255	14.00	-.98	61574.814	3.0	62955.000	2.0
7243.8243	10.00	-3.77	171685.290	2.0	173065.400	2.0
7243.8243	10.00	-3.77	171685.290	2.0	173065.400	2.0
7245.1158	12.00	-.92	58023.246	2.0	59403.110	1.0
7245.1316	10.00	-4.67	171685.539	3.0	173065.400	2.0
7245.1316	10.00	-4.67	171685.539	3.0	173065.400	2.0
7246.2606	14.00	.41	61574.814	3.0	62954.460	3.0
7246.9330	26.00	-4.91	47755.485	3.0	49135.003	3.0
7247.4478	6.00	-3.38	87763.240	3.0	89142.660	2.0
7247.6475	26.00	-4.31	45509.112	1.0	46888.494	2.0
7248.0784	7.00	-1.85	112868.700	3.5	114248.000	3.5
7249.5290	10.00	-1.43	169501.636	4.0	170880.660	3.0
7250.9697	28.00	-1.16	49327.560	3.0	50706.310	4.0
7251.4431	18.01	-3.41	209251.460	3.5	210630.120	3.5
7251.8113	18.01	-3.51	209251.460	3.5	210630.050	2.5
7252.2847	7.00	-2.75	112880.500	2.5	114259.000	1.5
7252.9371	10.00	-1.54	169502.284	3.0	170880.660	2.0
7252.9371	10.00	-3.46	169502.284	3.0	170880.660	3.0
7253.1897	14.00	-2.27	59118.030	3.0	60496.358	2.0
7255.2742	18.00	-.39	121794.158	0.0	123172.090	1.0
7255.8113	6.00	-3.03	86449.190	3.0	87827.020	2.0
7256.0746	14.00	-1.31	49188.617	2.0	50566.397	1.0
7256.2326	6.00	-.71	86449.190	3.0	87826.940	3.0
7257.4599	12.00	-.20	58023.246	2.0	59400.763	3.0
7257.4599	12.00	-.58	58023.246	2.0	59400.763	3.0
7257.4599	12.00	-.95	58023.246	2.0	59400.763	2.0
7257.6655	17.00	-3.45	100146.822	3.5	101524.300	2.5
7258.2978	17.00	-4.12	100146.822	3.5	101524.180	3.5
7260.8175	28.01	-4.71	98467.250	3.5	99844.130	3.5
7261.2395	6.00	.74	84950.360	2.0	86327.160	3.0
7261.7669	29.01	-4.45	136754.110	2.0	138130.810	3.0
7261.8724	22.00	-4.14	47463.060	4.0	48839.740	3.0
7262.2469	7.00	-2.96	112868.700	3.5	114245.309	4.5
7262.2944	28.01	-4.10	101366.140	2.5	102742.740	1.5
7263.4552	23.00	-4.81	38220.630	5.5	39597.010	4.5
7263.8035	10.00	-.84	169501.636	4.0	170877.950	4.0
7263.8035	10.00	.80	169501.636	4.0	170877.950	5.0
7263.8774	15.00	-.79	77843.300	1.5	79219.600	.5
7263.9301	14.00	-2.15	62921.080	2.0	64297.370	3.0
7264.4052	13.01	-.38	143262.700	2.0	144638.900	2.0
7264.4052	13.01	.35	143262.700	2.0	144638.900	1.0
7264.4052	13.01	-1.92	143262.700	2.0	144638.900	3.0
7264.4422	8.00	.37	105409.020	1.0	106785.213	2.0
7264.4422	8.00	-.36	105409.020	2.0	106785.213	2.0
7264.4422	8.00	-1.90	105409.020	3.0	106785.213	2.0
7264.4422	8.00	.54	105409.020	2.0	106785.213	3.0
7264.4422	8.00	-.36	105409.020	3.0	106785.213	3.0
7264.4422	8.00	.70	105409.020	3.0	106785.213	4.0
7264.6586	8.00	-4.58	105409.020	1.0	106785.172	2.0
7264.6586	8.00	-4.35	105409.020	2.0	106785.172	2.0
7264.6586	8.00	-3.97	105409.020	2.0	106785.172	3.0
7264.6586	8.00	-4.26	105409.020	3.0	106785.172	3.0
7264.6586	8.00	-3.71	105409.020	3.0	106785.172	4.0
7264.6586	8.00	-4.88	105409.020	1.0	106785.172	1.0
7264.8275	10.00	.19	167591.233	2.0	168967.353	1.0
7266.3588	14.00	-2.32	62936.140	3.0	64311.970	4.0
7267.2251	10.00	.70	169502.284	3.0	170877.950	4.0
7267.3677	28.00	-1.32	49313.851	3.0	50689.490	2.0
7269.8462	9.02	-4.61	443630.960	3.5	445006.130	2.5
7270.2692	6.00	-1.33	88135.810	3.0	89510.900	3.0
7271.0729	17.00	-3.61	100146.822	3.5	101521.760	3.5
7272.0673	22.00	-1.17	42858.900	3.0	44233.650	3.0
7272.6492	19.00	-1.28	32598.300	2.5	33972.940	1.5
7272.7549	6.00	-2.78	88135.810	3.0	89510.430	2.0
7273.3159	17.00	-1.87	100146.822	3.5	101521.336	4.5
7273.3370	19.00	-2.23	32598.430	1.5	33972.940	1.5
7273.3900	15.00	-.60	79219.600	.5	80594.100	1.5
7273.6016	9.02	-.97	465414.140	2.5	466788.600	2.5
7276.0367	13.01	-2.86	123418.000	3.0	124792.000	2.0
7276.5133	19.00	-1.53	32598.430	1.5	33972.340	.5
7276.7252	18.01	-3.97	205249.930	2.5	206623.800	3.5
7276.7781	6.00	-.29	86389.380	2.0	87763.240	3.0
7277.0960	6.00	-4.13	87763.100	4.0	89136.900	4.0
7277.2549	18.01	-3.50	205250.030	3.5	206623.800	3.5
7277.8218	14.00	-2.09	61562.477	3.0	62936.140	3.0
7278.8126	10.00	-4.73	169502.284	3.0	170875.760	2.0
7282.1847	6.00	-.89	86389.380	2.0	87762.220	2.0
7282.7152	6.00	-.21	86389.380	2.0	87762.120	3.0
7285.6448	14.00	-1.12	61563.952	4.0	62936.140	3.0
7286.0059	10.00	-.04	168355.510	1.0	169727.630	1.0
7286.1228	10.00	-.67	169508.562	2.0	170880.660	2.0
7286.1228	10.00	.47	169508.562	2.0	170880.660	3.0
7286.7494	29.01	-4.99	116375.470	3.0	117747.450	3.0
7289.5123	17.00	-2.56	100170.980	1.5	101542.440	1.5
7290.3362	18.00	.10	121068.804	1.0	122440.109	2.0
7291.4262	19.00	-1.47	32227.440	.5	33598.540	.5
7292.1655	10.00	-1.90	170288.959	2.0	171659.920	3.0
7292.9687	6.00	.11	86449.190	3.0	87820.000	4.0
7293.3890	10.00	-.75	170288.959	2.0	171659.690	2.0
7293.3890	10.00	.58	170288.959	2.0	171659.690	3.0
7293.5008	6.00	-.88	86449.190	3.0	87819.900	3.0
7294.0808	10.00	.57	170289.319	2.0	171659.920	3.0
7295.3050	10.00	-.58	170289.319	2.0	171659.690	2.0
7295.9865	10.00	-.60	170289.677	3.0	171659.920	3.0
7295.9865	10.00	.71	170289.677	3.0	171659.920	4.0
7296.2154	6.00	-1.38	88061.280	1.0	89431.480	2.0
7296.4285	15.00	-3.02	66813.040	1.5	68183.200	1.5
7296.6415	7.00	-1.70	112877.880	4.5	114248.000	3.5
7296.6947	7.00	-2.16	112877.890	3.5	114248.000	3.5
7297.2114	10.00	-1.90	170289.677	3.0	171659.690	2.0
7297.2114	10.00	-.72	170289.677	3.0	171659.690	3.0
7297.3339	23.00	-3.70	37757.240	.5	39127.230	1.5
7300.7498	17.00	-2.01	97004.081	1.5	98373.430	2.5
7301.7576	9.02	-3.29	464921.740	3.5	466290.900	4.5
7302.0776	25.00	-4.99	43644.450	1.5	45013.550	2.5
7302.0777	7.00	-2.62	112826.900	2.5	114196.000	2.5
7302.0777	7.00	-3.01	112826.900	3.5	114196.000	2.5
7302.0777	13.01	-.75	143269.800	3.0	144638.900	3.0
7302.0777	13.01	.15	143269.800	3.0	144638.900	2.0
7302.6110	10.00	-.33	168358.630	1.0	169727.630	1.0
7303.1338	7.00	-.09	111501.368	1.5	112870.270	.5
7303.2031	17.00	-1.07	97004.081	1.5	98372.970	1.5
7303.5713	6.00	-.57	83820.130	1.0	85188.950	1.0
7303.8381	21.00	-3.33	35671.000	1.5	37039.770	2.5
7305.6528	19.00	-1.17	32230.110	1.5	33598.540	.5
7306.5605	26.02	-3.41	198333.560	2.0	199701.820	3.0
7309.0711	14.00	-1.09	62936.140	3.0	64303.930	3.0
7309.7660	6.00	-2.07	84032.150	1.0	85399.810	2.0
7310.5677	23.02	-4.59	161017.600	3.5	162385.110	3.5
7310.6212	7.00	-4.10	112880.500	2.5	114248.000	3.5
7311.0007	7.00	-2.17	112877.880	4.5	114245.309	4.5
7311.0542	7.00	-3.65	112877.890	3.5	114245.309	4.5
7311.2627	14.00	-2.69	62718.990	0.0	64086.370	1.0
7311.7975	6.00	-1.38	84950.360	2.0	86317.640	2.0
7312.0649	29.01	-.48	137034.970	3.0	138402.200	3.0
7312.2253	22.00	-1.44	41780.950	4.0	43148.150	3.0
7312.2360	10.00	-1.10	169508.562	2.0	170875.760	1.0
7312.2360	10.00	-.15	169508.562	2.0	170875.760	2.0
7312.3323	22.00	-4.09	38159.710	3.0	39526.890	2.0
7315.3179	7.00	-.94	111198.848	.5	112565.470	.5
7315.8105	24.01	-4.34	53051.550	1.5	54418.080	.5
7317.9686	26.00	-2.06	49737.110	5.0	51103.237	5.0
7318.1132	7.00	-1.41	112826.900	2.5	114193.000	1.5
7318.6489	6.00	-2.39	87218.260	2.0	88584.260	2.0
7319.6135	28.01	-2.41	135400.670	3.5	136766.490	2.5
7319.9350	14.01	.33	112394.820	1.5	113760.580	2.5
7320.4175	6.00	-2.28	88159.870	0.0	89525.540	1.0
7320.7926	14.01	-.82	112394.980	2.5	113760.580	2.5
7320.8409	10.00	.51	167559.060	3.0	168924.651	2.0
7321.0071	6.00	-.67	83838.080	2.0	85203.640	2.0
7321.1679	14.00	-3.47	62986.320	2.0	64351.850	3.0
7321.6505	6.00	-1.49	86397.800	3.0	87763.240	3.0
7321.7041	29.01	-4.77	136765.380	4.0	138130.810	3.0
7321.7041	14.01	.48	112394.980	2.5	113760.410	3.5
7322.4013	6.00	-.09	86397.800	3.0	87763.100	4.0
7322.5085	28.01	-3.13	100389.520	2.5	101754.800	2.5
7322.9912	6.00	-1.81	86411.980	3.0	87777.170	3.0
7323.3667	6.00	-3.50	86412.050	2.0	87777.170	3.0
7324.2789	14.00	-4.56	62519.660	2.0	63884.610	1.0
7325.2986	26.02	-4.02	198337.060	3.0	199701.820	3.0
7327.0380	10.00	-.70	170848.274	0.0	172212.710	1.0
7327.1239	6.00	-4.20	86397.800	3.0	87762.220	2.0
7327.6610	6.00	-1.99	86397.800	3.0	87762.120	3.0
7328.6816	22.00	-2.09	42611.580	1.0	43975.710	1.0
7329.0738	14.00	.56	61305.670	1.0	62669.727	2.0
7329.6649	20.00	-1.58	46479.813	1.0	47843.760	0.0
7331.0677	10.00	.37	170296.004	1.0	171659.690	2.0
7331.1537	10.00	.25	169516.990	1.0	170880.660	2.0
7333.1435	9.02	-3.13	464939.500	2.5	466302.800	3.5
7333.4985	18.00	-2.62	123505.536	2.0	124868.770	3.0
7334.5638	11.00	-.64	37036.754	2.5	38399.790	2.5
7334.5638	11.00	.66	37036.754	2.5	38399.790	3.5
7334.5961	6.00	-2.92	86469.510	3.0	87832.540	2.0
7334.6714	11.00	.51	37036.774	1.5	38399.790	2.5
7336.4800	6.00	-2.27	86414.490	3.0	87777.170	3.0
7337.5569	6.00	-1.03	86414.690	4.0	87777.170	3.0
7337.6646	9.02	-4.61	464939.500	2.5	466301.960	2.5
7338.4186	19.00	-.35	33178.120	2.5	34540.440	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7339.0112	19.00	-1.31	33178.230	1.5	34540.440	1.5
7339.9811	17.00	-2.13	100170.980	1.5	101533.010	2.5
7340.1428	19.00	-.61	33178.230	1.5	34540.230	.5
7340.1644	14.00	.96	61574.814	3.0	62936.810	4.0
7340.1967	17.00	-4.34	100170.980	1.5	101532.970	1.5
7340.3206	14.00	-3.16	61304.283	2.0	62666.250	1.0
7340.4608	9.00	-.90	128122.719	1.5	129484.660	1.5
7340.7356	15.01	-1.96	103941.300	0.0	105303.190	1.0
7341.7923	26.00	-4.69	53763.280	3.0	55124.974	3.0
7342.0565	28.00	-3.46	49327.845	2.0	50689.490	2.0
7342.4608	14.00	-1.14	62936.140	3.0	64297.710	4.0
7343.0002	7.01	-.23	209925.760	2.0	211287.230	3.0
7343.4317	10.00	-.80	170851.320	1.0	172212.710	1.0
7343.4317	10.00	-.39	170851.320	1.0	172212.710	2.0
7344.2948	14.00	-4.32	62936.140	3.0	64297.370	3.0
7344.8344	6.00	-1.15	86482.780	2.0	87843.910	1.0
7344.9424	6.00	-.97	86411.980	3.0	87773.090	2.0
7345.3201	6.00	-2.03	86412.050	2.0	87773.090	2.0
7345.8274	14.00	-.56	61574.814	3.0	62935.760	3.0
7346.5616	18.01	-3.64	209248.550	2.5	210609.360	3.5
7346.7074	18.00	-1.21	117151.387	1.0	118512.170	0.0
7351.9643	6.00	-2.82	88092.010	1.0	89451.820	1.0
7352.8077	18.00	-1.99	123505.536	2.0	124865.190	2.0
7352.9916	23.00	-4.69	36580.460	1.5	37940.080	.5
7353.6190	18.00	-3.56	123505.536	2.0	124865.040	3.0
7353.6407	14.00	-2.42	62935.760	3.0	64295.260	3.0
7354.1275	18.01	-2.38	204977.590	2.5	206337.000	3.5
7354.8309	7.01	-2.32	209673.650	2.0	211032.930	2.0
7354.8309	18.01	-3.50	204977.590	2.5	206336.870	2.5
7356.2921	14.01	.47	117915.060	.5	119274.070	1.5
7356.4382	7.00	.06	109926.661	2.5	111285.644	1.5
7357.5914	10.00	-.70	169516.990	1.0	170875.760	1.0
7357.5914	10.00	-.41	169516.990	1.0	170875.760	2.0
7358.4958	14.00	-1.55	61562.477	3.0	62921.080	2.0
7358.5121	6.00	-1.66	86414.490	3.0	87773.090	2.0
7359.3245	14.00	-2.25	62936.810	4.0	64295.260	3.0
7360.1373	13.01	.69	143280.600	4.0	144638.900	3.0
7362.0343	7.00	-2.52	105119.850	1.5	106477.800	.5
7362.3053	18.01	-2.20	209251.460	3.5	210609.360	3.5
7362.6849	14.00	-1.50	62226.390	1.0	63584.220	1.0
7362.7934	18.01	-1.87	209251.460	3.5	210609.270	4.5
7363.1187	29.01	-2.51	137044.450	4.0	138402.200	3.0
7364.0408	9.02	-.21	465414.140	2.5	466771.720	3.5
7364.2035	27.00	-4.06	50712.450	2.5	52070.000	2.5
7365.8041	10.00	-2.30	170858.465	4.0	172215.720	3.0
7365.8041	10.00	-.75	170858.465	4.0	172215.720	4.0
7366.8082	14.01	.90	123138.930	1.5	124496.000	2.5
7366.8082	14.01	-.05	123138.930	1.5	124496.000	1.5
7367.1883	30.02	-4.63	260878.800	3.0	262235.800	3.0
7368.0082	10.00	-.70	170858.871	3.0	172215.720	3.0
7368.0082	10.00	-2.65	170858.871	3.0	172215.720	4.0
7368.5403	7.00	-1.05	109856.520	1.5	111213.271	1.5
7368.8607	10.00	.51	169526.268	2.0	170882.960	3.0
7369.8494	27.00	-2.32	44568.470	2.5	45924.980	3.5
7370.2841	10.00	-1.88	170557.050	1.0	171913.480	0.0
7370.3384	7.01	-.44	209673.650	2.0	211030.070	3.0
7370.3384	14.01	-1.49	124948.660	3.5	126305.080	3.5
7370.3384	14.01	.06	124948.660	4.5	126305.080	3.5
7370.3384	14.01	-.05	124948.660	3.5	126305.080	2.5
7371.0992	28.01	-2.07	135599.000	.5	136955.280	.5
7372.2135	10.00	-.82	169526.885	3.0	170882.960	3.0
7372.2135	10.00	.64	169526.885	3.0	170882.960	4.0
7373.7088	14.00	-4.10	63488.010	3.0	64843.810	4.0
7373.7632	6.00	-1.05	88096.030	2.0	89451.820	1.0
7374.0896	22.00	-1.62	42724.110	2.0	44079.840	2.0
7375.2701	26.00	-4.60	52213.207	3.0	53568.720	2.0
7375.9394	6.00	-1.84	88092.010	1.0	89447.400	2.0
7377.4362	10.00	-1.45	170858.465	4.0	172213.580	4.0
7377.4362	10.00	.19	170858.465	4.0	172213.580	5.0
7377.5179	7.00	-2.10	112826.900	2.5	114182.000	2.5
7377.5179	7.00	-1.30	112826.900	3.5	114182.000	2.5
7377.7901	14.00	-.69	62666.250	1.0	64021.300	2.0
7378.6069	14.00	-1.70	63488.910	4.0	64843.810	4.0
7378.9500	14.00	-.88	60487.103	1.0	61841.940	2.0
7379.0971	6.00	.23	83848.830	3.0	85203.640	2.0
7379.6472	10.00	.21	170858.871	3.0	172213.580	4.0
7379.7507	24.01	-4.57	53271.070	2.5	54625.760	2.5
7379.8488	10.00	-4.07	171639.968	2.0	172994.640	2.0
7379.8488	10.00	.19	171639.968	2.0	172994.640	3.0
7379.8488	10.00	-1.77	171639.968	2.0	172994.640	3.0
7379.9141	18.00	-3.00	123172.090	1.0	124526.750	0.0
7380.2900	7.00	.22	111326.798	2.5	112681.389	2.5
7380.6769	26.00	-2.50	53328.870	4.0	54683.390	4.0
7381.3744	10.00	-.20	169526.268	2.0	170880.660	2.0
7381.3744	10.00	-1.34	169526.268	2.0	170880.660	3.0
7381.6959	17.00	-1.06	97338.887	2.5	98693.220	2.5
7381.8759	15.01	-.65	127756.300	2.0	129110.600	1.0
7381.8759	13.01	.25	143170.000	1.0	144524.300	1.0
7381.8759	13.01	.56	143170.000	2.0	144524.300	1.0
7381.8759	13.01	-.14	143170.000	0.0	144524.300	1.0
7382.8244	17.00	.24	97338.887	2.5	98693.013	3.5
7384.0022	6.00	-.29	83497.620	2.0	84851.530	1.0
7384.3895	10.00	-3.84	170858.871	3.0	172212.710	2.0
7384.6731	17.00	-4.62	101172.553	1.5	102526.340	2.5
7384.7386	10.00	-1.35	169526.885	3.0	170880.660	2.0
7384.7386	10.00	-.04	169526.885	3.0	170880.660	3.0
7385.4751	29.01	-3.30	117130.360	2.0	118484.000	3.0
7386.1298	27.00	-4.56	49847.080	2.5	51200.600	1.5
7386.8339	26.00	-4.63	47755.485	3.0	49108.876	4.0
7387.2214	17.00	-3.61	100170.980	1.5	101524.300	2.5
7388.1495	14.00	-3.15	63490.660	3.0	64843.810	4.0
7388.6955	14.00	-1.37	62226.390	1.0	63579.440	0.0
7389.3782	7.00	-.09	109812.233	.5	111165.158	1.5
7390.0063	21.00	-4.31	15672.550	1.5	17025.360	1.5
7390.3887	22.00	-2.76	45485.350	5.0	46838.090	4.0
7390.3997	10.00	-2.13	170862.982	2.0	172215.720	3.0
7390.4653	18.00	-2.91	118407.494	1.0	119760.220	1.0
7391.7931	10.00	-2.82	171642.157	2.0	172994.640	2.0
7391.7931	10.00	-2.44	171642.157	2.0	172994.640	3.0
7391.7931	10.00	.05	171642.157	2.0	172994.640	3.0
7392.4107	6.00	-1.65	88096.030	2.0	89448.400	3.0
7392.7934	30.02	-4.08	260584.100	1.0	261936.400	1.0
7393.1760	14.00	-1.43	62231.990	2.0	63584.220	1.0
7393.3456	7.00	-1.23	111213.271	1.5	112565.470	.5
7393.3784	10.00	-3.84	171642.447	3.0	172994.640	2.0
7393.3784	10.00	-1.23	171642.447	3.0	172994.640	3.0
7393.3784	10.00	-1.08	171642.447	3.0	172994.640	3.0
7393.3784	10.00	.22	171642.447	3.0	172994.640	4.0
7393.6135	10.01	-2.79	302247.780	3.5	303599.930	3.5
7394.2697	9.02	-2.79	442278.930	2.5	443630.960	3.5
7395.0683	18.00	-3.21	123505.536	2.0	124857.420	2.0
7395.5825	18.01	-2.69	204996.090	3.5	206347.880	4.5
7395.8889	18.00	-4.36	123505.536	2.0	124857.270	1.0
7396.0749	7.00	-3.74	112880.500	2.5	114232.200	1.5
7396.6440	28.00	-3.09	49185.146	2.0	50536.742	1.0
7397.8810	6.00	-1.57	88096.030	2.0	89447.400	2.0
7398.5927	9.02	-1.02	467769.110	.5	469120.350	1.5
7399.4799	28.00	-3.39	50689.490	2.0	52040.568	2.0
7399.5511	10.00	-2.77	169526.885	3.0	170877.950	4.0
7400.6192	6.00	-0.00	83838.080	2.0	85186.950	1.0
7401.0575	28.01	-4.49	133613.990	1.5	134964.780	1.5
7401.4575	28.00	-2.57	49403.420	1.0	50754.137	2.0
7402.0877	20.00	-.80	44957.655	1.0	46308.257	2.0
7403.1127	10.00	-.35	168355.510	1.0	169705.925	0.0
7403.9022	14.00	-.90	59506.359	2.0	60856.630	1.0
7404.2367	28.01	-4.96	135382.530	1.5	136732.740	1.5
7405.1746	28.00	-2.20	49327.560	3.0	50677.599	3.0
7405.7176	28.01	-4.41	118563.390	3.5	119913.330	4.5
7406.0468	6.00	-.89	86482.660	3.0	87832.540	2.0
7406.1566	6.00	-.78	85169.610	0.0	86519.470	1.0
7406.6504	28.01	-3.44	116312.340	1.5	117662.110	1.5
7406.7052	10.00	-2.96	171644.880	1.0	172994.640	2.0
7406.7052	6.00	-1.89	86482.780	2.0	87832.540	2.0
7406.8809	10.00	-1.58	170862.982	2.0	172212.710	1.0
7406.8809	10.00	-.68	170862.982	2.0	172212.710	2.0
7408.1761	10.00	-2.43	169526.268	2.0	170875.760	2.0
7408.1761	10.00	-1.48	169526.268	2.0	170875.760	1.0
7408.2420	6.00	-.36	83820.130	1.0	85169.610	0.0
7410.1200	14.00	-.90	59032.140	2.0	60381.278	1.0
7411.0593	18.00	-3.71	123254.990	1.0	124603.957	2.0
7411.4824	10.00	.36	168378.740	2.0	169727.630	1.0
7411.5648	10.00	-1.28	169526.885	3.0	170875.760	2.0
7411.7791	7.00	-3.49	112826.900	2.5	114175.736	3.5
7411.7791	7.00	-2.73	112826.900	3.5	114175.736	3.5
7412.1418	14.00	-2.21	62596.320	2.0	63945.090	3.0
7412.5264	15.00	-3.43	66834.500	1.5	68183.200	1.5
7412.9112	6.00	-3.12	86411.980	3.0	87760.610	4.0
7413.1696	14.00	-1.45	62669.727	2.0	64018.310	1.0
7413.4609	27.00	-2.26	45876.580	2.5	47225.110	3.5
7413.8073	13.00	-.80	38929.405	1.5	40277.872	1.5
7413.8293	22.00	-4.82	27480.047	3.0	28828.510	2.0
7414.1757	28.01	-4.97	115120.000	2.5	116468.400	1.5
7414.4506	6.00	-1.45	86498.550	1.0	87846.900	0.0
7414.6706	18.00	-.88	123508.960	0.0	124857.270	1.0
7416.0181	14.00	-.18	59273.575	1.0	60621.640	0.0
7416.9259	8.01	-1.49	254481.500	3.5	255829.400	3.5
7417.4762	29.01	-1.47	139241.600	1.0	140589.400	0.0
7418.4670	28.01	-3.08	134053.050	2.5	135400.670	3.5
7419.1496	7.00	.41	109856.520	1.5	111204.016	2.5
7419.7333	6.00	-1.85	86482.780	2.0	87830.170	1.0
7420.2565	10.00	-.04	168358.630	1.0	169705.925	0.0
7420.3556	10.00	-1.93	169976.740	0.0	171324.017	1.0
7420.8844	28.00	-4.00	49777.619	3.0	51124.800	3.0
7421.3306	9.00	-3.01	128712.300	1.5	130059.400	.5
7421.7934	17.00	-3.00	98418.890	3.5	99765.906	2.5
7421.7989	14.00	-.36	60300.860	2.0	61647.875	2.0
7422.4160	11.00	-1.25	38387.257	2.5	39734.160	2.5
7422.4160	11.00	.05	38387.257	2.5	39734.160	3.5
7422.4877	11.00	-.10	38387.270	1.5	39734.160	2.5
7422.9506	17.00	-1.66	98419.100	2.5	99765.906	2.5
7423.7554	26.01	-3.61	86124.140	4.5	87470.800	4.5
7424.6375	20.00	-1.23	44961.757	2.0	46308.257	2.0
7424.6375	14.00	-1.95	60300.860	2.0	61647.360	1.0
7424.7754	20.00	-.83	47036.225	1.0	48382.700	2.0
7425.2993	9.02	-4.55	442278.930	2.5	443625.310	2.5
7425.5751	6.00	-.22	86491.410	1.0	87837.740	1.0
7425.5751	6.00	-.94	86491.410	1.0	87837.740	2.0
7425.7239	20.00	-.25	44955.670	0.0	46301.973	1.0
7426.7335	6.00	-3.88	86414.490	3.0	87760.610	4.0
7426.8438	8.01	-.03	254481.500	3.5	255827.600	4.5
7426.9542	24.00	-2.70	53640.740	3.0	54986.820	3.0
7427.3404	23.00	-4.03	39241.340	2.5	40587.350	3.5
7427.3404	10.00	-3.72	169536.950	2.0	170882.960	3.0
7427.3404	10.00	-3.59	169536.950	3.0	170882.960	4.0
7427.4287	20.00	.04	44957.655	1.0	46303.649	2.0
7427.6715	10.00	-1.86	171913.480	0.0	173259.430	1.0
7427.7267	18.01	-1.03	202155.860	2.5	203501.800	2.5
7427.8371	6.00	-1.57	86414.690	4.0	87760.610	4.0
7429.7029	14.00	-.64	60496.358	2.0	61841.940	2.0
7430.9288	6.00	-1.53	86498.550	1.0	87843.910	1.0
7431.3155	22.00	-4.71	40556.070	1.0	41901.360	1.0
7431.4260	6.00	-2.34	86498.640	2.0	87843.910	1.0
7432.1995	14.00	-1.63	62141.800	1.0	63486.930	1.0
7433.9127	17.00	-3.12	100197.620	2.5	101542.440	1.5
7434.2499	10.00	-1.15	170867.951	1.0	172212.710	1.0
7434.2499	10.00	-.94	170867.951	1.0	172212.710	2.0
7434.7420	19.00	-2.12	32227.440	.5	33572.110	1.5
7435.1000	2.00	-.20	184865.000	0.0	186209.972	0.0
7436.6887	20.00	-.38	44957.655	1.0	46301.973	1.0
7436.7772	20.00	.37	44961.757	2.0	46306.059	3.0
7437.4522	9.00	-.87	128140.480	2.5	129484.660	1.5
7437.7842	14.00	-.94	62519.660	2.0	63863.780	2.0
7437.8395	18.00	-1.61	119847.810	1.0	121191.920	2.0
7437.9000	3.00	.92	39095.000	0.0	40439.466	0.0
7438.2711	20.00	-3.46	47040.007	2.0	48384.039	3.0
7438.6143	26.00	-.41	49804.900	3.0	51148.870	3.0
7438.9408	13.00	.15	38933.961	2.5	40277.872	1.5
7439.0017	8.01	-1.79	274920.000	1.5	276263.900	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7439.0017	8.01	-2.50	274920.000	1.5	276263.900	1.5
7439.0017	8.01	-1.54	274920.000	2.5	276263.900	1.5
7439.0017	7.00	-3.71	112946.600	1.5	114290.500	2.5
7439.0017	14.00	-1.61	61881.600	1.0	63225.500	2.0
7440.0536	10.00	-2.32	169536.950	2.0	170880.660	2.0
7440.0536	10.00	-3.47	169536.950	3.0	170880.660	2.0
7440.0536	10.00	-3.47	169536.950	2.0	170880.660	3.0
7440.0536	10.00	-2.17	169536.950	3.0	170880.660	3.0
7441.4382	17.00	-3.81	100190.970	5.5	101534.430	4.5
7441.4382	17.00	-1.99	100190.970	5.5	101534.430	5.5
7441.4935	17.00	-2.90	100190.980	4.5	101534.430	4.5
7441.4935	17.00	-3.25	100190.980	4.5	101534.430	5.5
7443.8207	17.00	-2.14	100191.400	4.5	101534.430	4.5
7443.8207	17.00	-4.98	100191.400	4.5	101534.430	5.5
7444.0978	6.00	-1.88	87827.020	2.0	89170.000	1.0
7444.4858	23.00	-4.89	36763.410	2.5	38106.320	2.5
7444.7520	10.00	.05	170872.858	2.0	172215.720	3.0
7445.0957	28.01	-3.67	135382.530	1.5	136725.330	.5
7445.2398	20.00	-.66	47040.007	2.0	48382.781	3.0
7445.4228	10.00	-2.56	169530.487	2.0	170873.228	3.0
7445.6890	20.00	-1.56	47040.007	2.0	48382.700	2.0
7446.4266	13.00	-.10	38929.405	1.5	40271.965	.5
7446.8038	10.00	-1.30	170873.228	3.0	172215.720	3.0
7446.8038	10.00	.07	170873.228	3.0	172215.720	4.0
7446.8703	29.01	-4.71	136919.350	3.0	138261.830	3.0
7447.4750	10.00	-4.21	169530.487	2.0	170872.858	2.0
7447.4972	10.00	-2.67	169530.491	1.0	170872.858	2.0
7447.5138	18.00	-2.50	123261.593	2.0	124603.957	2.0
7447.7136	7.00	-1.76	109856.520	1.5	111198.848	.5
7447.8689	6.00	-2.86	87819.900	3.0	89162.200	2.0
7448.4793	6.00	-.77	84984.970	3.0	86327.160	3.0
7448.5903	10.00	-2.16	169540.790	3.0	170882.960	3.0
7448.5903	10.00	-3.66	169540.790	4.0	170882.960	3.0
7448.5903	10.00	-3.60	169540.790	3.0	170882.960	4.0
7448.5903	10.00	-2.06	169540.790	4.0	170882.960	4.0
7449.5339	19.00	-2.82	32230.110	1.5	33572.110	1.5
7449.8115	19.00	-1.86	32230.110	1.5	33572.060	2.5
7450.1335	20.00	-.43	44961.757	2.0	46303.649	2.0
7450.7553	28.01	-1.98	135618.080	2.5	136959.860	2.5
7451.6995	17.00	-3.26	100191.400	3.5	101533.010	2.5
7455.5895	18.01	-3.39	204996.090	3.5	206337.000	3.5
7455.6951	14.00	-1.82	60815.925	2.0	62156.816	2.0
7456.2011	14.00	-2.70	62954.460	3.0	64295.260	3.0
7456.3123	18.01	-4.78	204996.090	3.5	206336.870	2.5
7456.5348	21.00	-2.70	35745.570	2.5	37086.310	1.5
7456.8129	10.00	-1.22	169542.270	4.0	170882.960	3.0
7456.8129	10.00	-2.76	169542.270	4.0	170882.960	4.0
7456.8129	10.00	-1.13	169542.270	5.0	170882.960	4.0
7458.0367	22.00	-2.61	40844.190	3.0	42184.660	4.0
7458.2036	29.01	-4.38	116326.160	3.0	117666.600	4.0
7458.6933	10.00	-2.64	170873.228	3.0	172213.580	4.0
7458.7600	6.00	-3.44	87218.260	2.0	88558.600	1.0
7459.2053	14.00	-3.34	62955.000	2.0	64295.260	3.0
7459.2609	11.00	-2.67	37059.540	3.5	38399.790	3.5
7459.2609	11.00	-1.12	37059.540	4.5	38399.790	3.5
7459.2609	11.00	-1.24	37059.540	3.5	38399.790	2.5
7459.4502	20.00	-1.55	44961.757	2.0	46301.973	1.0
7460.2628	10.00	-4.47	172268.400	1.0	173608.470	2.0
7460.2628	10.00	-4.47	172268.400	1.0	173608.470	2.0
7460.9310	28.01	-2.05	135619.910	1.5	136959.860	2.5
7461.3764	10.00	-1.37	169540.790	3.0	170880.660	2.0
7461.3764	10.00	-2.67	169540.790	3.0	170880.660	3.0
7461.3764	10.00	-1.24	169540.790	4.0	170880.660	3.0
7461.4767	10.00	-4.87	170872.858	2.0	172212.710	2.0
7461.4767	10.00	-1.84	170872.858	2.0	172212.710	1.0
7461.6550	10.00	-2.62	170320.100	3.0	171659.920	3.0
7461.6550	10.00	-1.19	170320.100	4.0	171659.920	3.0
7461.6550	10.00	-4.18	170320.100	3.0	171659.920	4.0
7461.6550	10.00	-2.73	170320.100	4.0	171659.920	4.0
7461.6550	10.00	-2.64	170320.100	4.0	171659.920	4.0
7461.6550	10.00	-1.09	170320.100	5.0	171659.920	4.0
7462.6018	10.00	-1.10	169538.300	5.0	170877.950	4.0
7462.6018	10.00	-2.83	169538.300	5.0	170877.950	5.0
7462.6018	10.00	-1.02	169538.300	6.0	170877.950	5.0
7462.9360	10.00	-1.32	170320.100	3.0	171659.690	2.0
7462.9360	10.00	-2.75	170320.100	3.0	171659.690	3.0
7462.9360	10.00	-1.18	170320.100	4.0	171659.690	3.0
7462.9360	10.00	-4.12	170320.100	4.0	171659.690	3.0
7463.3818	14.00	-2.77	62545.100	1.0	63884.610	1.0
7463.5377	10.00	-1.85	170873.228	3.0	172212.710	2.0
7463.6046	6.00	-4.64	88092.010	1.0	89431.480	2.0
7464.1061	27.00	-4.50	50925.110	1.5	52264.490	1.5
7464.8307	28.01	-4.12	133443.890	2.5	134783.140	2.5
7465.0536	14.00	-.41	62421.030	3.0	63760.240	3.0
7465.3157	17.00	-4.78	97354.057	1.5	98693.220	2.5
7467.2840	10.00	-2.50	169536.950	2.0	170875.760	2.0
7467.2840	10.00	-1.36	169536.950	3.0	170875.760	2.0
7467.2840	10.00	-1.55	169536.950	2.0	170875.760	1.0
7467.3509	20.00	-4.35	47045.241	3.0	48384.039	3.0
7467.6967	14.00	-1.53	61597.404	3.0	62936.140	3.0
7469.6273	29.01	-3.66	136725.930	5.0	138064.320	5.0
7469.9119	17.00	-.92	98372.970	1.5	99711.309	.5
7470.1296	14.00	.19	57450.580	3.0	58788.880	4.0
7470.2413	28.01	-2.43	132729.480	2.5	134067.760	1.5
7471.7152	7.00	-.22	111271.596	.5	112609.612	1.5
7471.8325	14.00	-2.74	61598.145	2.0	62936.140	3.0
7473.3685	6.00	-2.92	87827.020	2.0	89164.740	1.0
7474.2624	20.00	-.50	47045.241	3.0	48382.801	4.0
7474.3742	20.00	-1.56	47045.241	3.0	48382.781	3.0
7474.5977	30.02	-4.82	260584.100	1.0	261921.600	2.0
7474.7990	10.00	-1.66	169530.487	2.0	170867.951	1.0
7474.8213	10.00	-1.94	169530.491	1.0	170867.951	1.0
7474.8269	20.00	-3.10	47045.241	3.0	48382.700	2.0
7474.9722	22.00	-4.80	27614.667	4.0	28952.100	4.0
7475.0448	6.00	-2.28	86469.510	3.0	87806.930	3.0
7475.8833	6.00	-2.75	86469.660	4.0	87806.930	3.0
7475.9392	28.01	-3.27	135622.600	3.5	136959.860	2.5
7476.2747	15.00	-1.87	76318.000	4.5	77655.200	3.5
7476.4983	10.00	-3.81	169540.790	3.0	170877.950	4.0
7476.4983	10.00	-3.71	169540.790	4.0	170877.950	5.0
7478.2880	22.00	-1.24	41895.150	5.0	43231.990	4.0
7478.7355	17.00	-2.17	100205.680	1.5	101542.440	1.5
7478.7355	17.00	-1.43	100205.680	2.5	101542.440	1.5
7478.7355	17.00	-3.48	100197.670	3.5	101534.430	4.5
7478.9034	14.00	-1.79	62985.960	1.0	64322.690	0.0
7479.3397	7.00	.07	111501.368	1.5	112838.020	1.5
7480.4870	14.00	-.14	60487.103	1.0	61823.550	2.0
7481.4219	14.00	-1.95	57450.580	3.0	58786.860	3.0
7481.4779	28.01	-2.16	135623.590	1.5	136959.860	2.5
7482.1498	28.01	-4.91	117763.910	1.5	119100.060	1.5
7483.7741	19.00	-2.64	30617.310	3.5	31953.170	3.5
7483.7741	19.00	-1.09	30617.310	4.5	31953.170	3.5
7483.7741	19.00	-1.20	30617.310	3.5	31953.170	2.5
7484.1102	6.00	-2.80	87819.900	3.0	89155.700	3.0
7484.6706	17.01	-2.17	149798.300	2.0	151134.000	1.0
7484.6706	6.00	-2.13	87820.000	4.0	89155.700	3.0
7484.7827	10.00	-3.96	169542.270	5.0	170877.950	4.0
7484.7827	10.00	-3.91	169542.270	4.0	170877.950	5.0
7484.7827	10.00	-2.18	169542.270	5.0	170877.950	5.0
7484.7827	10.00	-2.26	169542.270	4.0	170877.950	4.0
7485.1749	6.00	.17	86491.410	1.0	87827.020	2.0
7485.1749	10.01	-4.34	302192.920	4.5	303528.530	3.5
7485.7410	10.00	-3.04	170875.760	2.0	172211.269	3.0
7486.0717	6.00	-2.22	88096.030	2.0	89431.480	2.0
7486.4081	17.00	-4.49	100197.620	2.5	101533.010	2.5
7486.5202	28.01	-3.85	135619.910	1.5	136955.280	.5
7486.6043	10.00	-3.23	170875.760	1.0	172211.115	2.0
7486.6043	10.00	-4.21	170875.760	2.0	172211.115	2.0
7486.6323	17.00	-1.40	100197.620	2.5	101532.970	1.5
7486.6884	17.00	-1.26	100197.670	3.5	101533.010	2.5
7486.9127	13.01	.47	144939.100	1.0	146274.400	2.0
7487.1369	6.00	-1.71	87826.940	3.0	89162.200	2.0
7487.5856	6.00	-2.49	87827.020	2.0	89162.200	2.0
7489.1785	26.00	-3.78	47197.000	2.0	48531.896	3.0
7489.5488	28.01	-2.04	118809.340	1.5	120144.170	2.5
7489.6049	10.01	-2.70	302192.920	4.5	303527.740	4.5
7490.3905	18.00	-4.71	122601.290	1.0	123935.970	1.0
7490.3906	22.00	-.99	41995.390	6.0	43330.070	5.0
7490.7441	12.00	-2.54	59400.763	2.0	60735.380	2.0
7490.7441	12.00	-1.64	59400.763	2.0	60735.380	1.0
7490.7441	12.00	-1.44	59400.763	3.0	60735.380	2.0
7490.7441	12.00	-3.92	59400.763	2.0	60735.380	3.0
7490.7441	12.00	-2.59	59400.763	3.0	60735.380	3.0
7490.7441	12.00	-2.78	59400.763	3.0	60735.380	3.0
7490.7441	12.00	-1.31	59400.763	4.0	60735.380	3.0
7492.6361	17.00	-3.44	100899.030	3.5	102233.310	2.5
7492.6417	10.00	-1.33	169538.949	3.0	170873.228	3.0
7492.6810	10.00	-2.63	169538.956	2.0	170873.228	3.0
7493.0180	7.00	.70	109926.661	2.5	111260.873	3.5
7493.0292	6.00	-.56	85188.950	1.0	86523.160	0.0
7493.0348	18.00	-3.76	123220.730	2.0	124554.939	1.0
7494.1694	26.00	-3.55	50611.303	3.0	51945.310	2.0
7494.2650	6.00	-2.44	86498.550	1.0	87832.540	2.0
7494.7200	10.00	-2.89	169538.949	3.0	170872.858	2.0
7494.7593	10.00	-1.42	169538.956	2.0	170872.858	2.0
7494.7706	6.00	-1.55	86498.640	2.0	87832.540	2.0
7495.0852	14.00	-.96	62156.816	2.0	63490.660	3.0
7495.5573	6.00	-2.23	87837.740	1.0	89171.500	0.0
7496.0631	6.00	.42	84851.530	1.0	86185.200	2.0
7497.2437	14.00	-1.18	63340.700	3.0	64674.160	4.0
7497.4798	10.00	-.13	167591.233	2.0	168924.651	2.0
7497.8622	10.00	-2.46	170875.760	1.0	172209.110	1.0
7497.8622	10.00	-2.16	170875.760	2.0	172209.110	1.0
7498.0364	10.00	-4.58	170877.950	4.0	172211.269	3.0
7498.2277	14.00	-3.68	57468.239	2.0	58801.524	1.0
7498.4807	6.00	-2.78	88192.300	1.0	89525.540	1.0
7498.8238	17.00	-4.03	95612.357	1.5	96945.536	2.5
7499.0994	17.00	-.99	100201.300	5.5	101534.430	4.5
7499.0994	17.00	-2.80	100201.300	5.5	101534.430	5.5
7499.0994	17.00	-.92	100201.300	6.5	101534.430	5.5
7499.2682	7.00	-4.50	112826.900	2.5	114160.000	1.5
7499.3808	10.00	-1.86	171148.780	0.0	172481.860	1.0
7499.7183	17.00	-1.18	101193.320	3.5	102526.340	2.5
7499.8308	15.00	-3.68	78069.000	1.5	79402.000	2.5
7500.1685	17.00	-2.61	101193.320	3.5	102526.260	3.5
7500.1685	17.00	-1.06	101193.320	4.5	102526.260	3.5
7500.3935	17.00	-1.28	100191.400	3.5	101524.300	2.5
7500.7930	26.00	-4.48	46888.494	2.0	48221.323	1.0
7500.9562	7.00	-2.70	112957.700	1.5	114290.500	2.5
7501.0000	3.00	-.45	39105.000	0.0	40438.156	0.0
7501.6598	26.00	-3.84	52213.207	3.0	53545.882	3.0
7501.6879	6.00	-3.63	84984.970	3.0	86317.640	2.0
7501.9469	14.00	-4.05	62156.816	2.0	63489.440	2.0
7502.1383	10.00	-4.14	169727.630	1.0	171060.220	2.0
7502.1495	17.00	-2.73	95597.593	.5	96930.181	.5
7502.6732	10.00	-1.42	169530.487	2.0	170862.982	2.0
7502.6957	10.00	-2.35	169530.491	1.0	170862.982	2.0
7503.9402	12.00	-2.77	59403.110	1.0	60735.380	2.0
7503.9966	6.00	-2.34	87837.740	1.0	89170.000	1.0
7503.9966	6.00	-3.85	87837.740	2.0	89170.000	1.0
7504.1092	11.00	-.04	35040.380	.5	36372.620	.5
7504.3345	29.01	-2.22	137649.100	2.0	138981.300	2.0
7506.0755	17.00	-.28	94663.670	1.5	95995.561	.5
7506.0811	17.00	-1.42	100890.490	4.5	102222.380	3.5
7506.5884	9.02	-3.63	443625.310	2.5	444957.110	1.5
7507.2085	28.01	-2.32	135623.590	1.5	136955.280	.5
7507.6031	6.00	-2.31	86498.550	1.0	87830.170	1.0
7507.7159	8.01	-4.32	254481.500	3.5	255813.100	2.5
7507.7723	17.00	-2.49	100890.490	4.5	102222.080	4.5
7508.1106	6.00	-1.07	86498.640	2.0	87830.170	1.0
7508.9170	8.00	-1.42	106785.213	2.0	108116.600	1.0
7508.9170	8.00	-2.15	106785.213	2.0	108116.600	2.0
7508.9170	8.00	-3.69	106785.213	2.0	108116.600	3.0
7508.9170	8.00	-1.25	106785.213	3.0	108116.600	2.0
7508.9170	8.00	-2.15	106785.213	3.0	108116.600	3.0
7508.9170	8.00	-1.09	106785.213	4.0	108116.600	3.0
7509.2159	7.00	-.09	109812.233	.5	111143.567	.5
7509.7461	9.00	-1.64	128606.090	2.5	129937.330	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7510.0057	14.00	-1.52	62156.816	2.0	63488.010	3.0
7510.5924	11.00	-2.96	39208.980	2.5	40540.070	2.5
7510.5924	11.00	-1.66	39208.980	3.5	40540.070	2.5
7510.5924	11.00	-1.82	39208.980	2.5	40540.070	1.5
7510.8745	6.00	-1.22	86506.700	2.0	87837.740	1.0
7510.8745	6.00	-.26	86506.700	2.0	87837.740	2.0
7510.9874	10.00	-2.86	170875.760	1.0	172206.780	2.0
7510.9874	10.00	-1.91	170875.760	2.0	172206.780	2.0
7511.1003	9.02	-4.56	442294.310	1.5	443625.310	2.5
7511.3542	26.00	-.47	49502.530	5.0	50833.485	5.0
7512.1727	18.01	-4.13	205300.860	1.5	206631.670	2.5
7512.2291	6.00	-2.18	87218.260	2.0	88549.060	1.0
7512.3420	17.00	-2.39	100190.980	4.5	101521.760	3.5
7512.9630	18.01	-2.78	205301.000	2.5	206631.670	2.5
7513.3075	10.00	-3.12	170880.660	2.0	172211.269	3.0
7513.3075	10.00	-1.80	170880.660	3.0	172211.269	3.0
7513.8100	6.00	-2.62	85188.950	1.0	86519.470	1.0
7514.1489	28.01	-1.29	135629.400	3.5	136959.860	2.5
7514.1771	10.00	-1.95	170880.660	2.0	172211.115	2.0
7514.1771	10.00	-3.11	170880.660	3.0	172211.115	2.0
7514.2561	17.00	-3.52	95400.731	2.5	96731.172	3.5
7514.3748	14.01	.16	117915.060	.5	119245.480	.5
7514.6798	17.00	-1.03	100190.970	5.5	101521.336	4.5
7514.7137	17.00	-2.25	100191.400	3.5	101521.760	3.5
7514.7137	17.00	-1.13	100191.400	4.5	101521.760	3.5
7514.7363	17.00	-1.78	100190.980	4.5	101521.336	4.5
7515.6232	10.00	-2.09	169543.029	3.0	170873.228	3.0
7515.6627	10.00	-.65	169543.036	4.0	170873.228	3.0
7516.1826	6.00	-2.69	88192.300	1.0	89522.400	2.0
7517.1094	17.00	-3.11	100191.400	3.5	101521.336	4.5
7517.1094	17.00	-3.83	100191.400	4.5	101521.336	4.5
7517.7143	10.00	-.73	169543.029	3.0	170872.858	2.0
7518.0479	11.00	.26	35042.850	1.5	36372.620	.5
7518.8960	11.00	-.82	37057.650	2.5	38387.270	1.5
7518.9695	11.00	-.67	37057.650	3.5	38387.257	2.5
7518.9695	11.00	-1.97	37057.650	2.5	38387.257	2.5
7519.6878	28.01	-3.08	134053.050	2.5	135382.530	1.5
7520.5928	23.00	-3.64	37075.640	4.5	38404.960	5.5
7520.7625	10.00	-1.39	171659.690	2.0	172988.980	1.0
7521.1021	28.01	-1.48	135630.630	2.5	136959.860	2.5
7522.4320	10.00	-1.00	169538.956	2.0	170867.951	1.0
7522.4490	26.00	-4.81	35611.608	3.0	36940.600	2.0
7522.9132	11.00	-2.43	38399.790	2.5	39728.700	2.5
7522.9132	11.00	-1.13	38399.790	3.5	39728.700	2.5
7522.9132	11.00	-1.28	38399.790	2.5	39728.700	1.5
7523.0829	6.00	-1.75	87762.220	2.0	89091.100	1.0
7523.1962	27.00	-4.12	46872.740	3.5	48201.600	3.5
7523.7623	6.00	-2.86	87826.940	3.0	89155.700	3.0
7524.1870	18.00	-.56	121932.908	1.0	123261.593	2.0
7524.2154	6.00	-4.73	87827.020	2.0	89155.700	3.0
7525.5180	10.00	-1.51	170880.660	2.0	172209.110	1.0
7525.5181	29.01	-1.33	137073.750	2.0	138402.200	3.0
7526.3169	10.00	-2.59	170882.960	3.0	172211.269	3.0
7526.3169	10.00	-1.12	170882.960	4.0	172211.269	3.0
7527.1896	10.00	-1.25	170882.960	3.0	172211.115	2.0
7529.2474	10.00	.05	167639.561	1.0	168967.353	1.0
7530.0243	14.00	-1.06	61598.145	2.0	62925.800	1.0
7530.3760	10.00	-3.66	171659.690	2.0	172987.283	3.0
7530.3760	10.00	-2.49	171659.690	3.0	172987.283	3.0
7530.8241	10.00	-2.34	171659.690	2.0	172987.204	2.0
7531.0170	5.00	-1.92	62516.520	2.5	63844.000	2.5
7531.0170	5.00	-.62	62516.520	3.5	63844.000	2.5
7531.0170	5.00	-.78	62516.520	2.5	63844.000	1.5
7531.1078	28.00	-3.06	42605.964	3.0	43933.428	2.0
7531.4709	7.00	-2.65	112946.600	1.5	114274.000	2.5
7531.5276	10.00	-2.52	171659.690	2.0	172987.080	2.0
7531.5276	10.00	-1.19	171659.690	3.0	172987.080	2.0
7531.6809	10.00	-2.36	171659.920	3.0	172987.283	3.0
7531.6809	10.00	-1.06	171659.920	4.0	172987.283	3.0
7531.7716	10.00	-1.07	170877.950	4.0	172205.297	3.0
7531.8681	17.00	-3.30	100205.680	1.5	101533.010	2.5
7531.8681	17.00	-1.96	100205.680	2.5	101533.010	2.5
7531.9248	6.00	-2.82	88198.220	2.0	89525.540	1.0
7532.0384	7.00	-2.48	112868.700	3.5	114196.000	2.5
7532.0951	17.00	-2.35	100205.680	1.5	101532.970	1.5
7532.1291	10.00	-1.20	171659.920	3.0	172987.204	2.0
7532.6513	14.00	.06	60496.358	2.0	61823.550	2.0
7532.7194	10.00	-2.62	170877.950	4.0	172205.130	4.0
7532.7194	10.00	-.97	170877.950	5.0	172205.130	4.0
7532.8329	10.00	-3.66	171659.920	3.0	172987.080	2.0
7532.9577	10.00	-.87	170317.742	2.0	171644.880	1.0
7533.1735	8.01	-1.73	274739.200	2.5	276066.300	1.5
7533.1735	8.01	-2.90	274739.200	2.5	276066.300	2.5
7533.7411	6.00	-2.89	87837.740	1.0	89164.740	1.0
7533.7411	6.00	-1.82	87837.740	2.0	89164.740	1.0
7535.0471	14.00	-1.55	62968.490	4.0	64295.260	3.0
7535.4447	8.01	-3.26	274782.400	3.5	276109.100	4.5
7535.5583	17.00	-1.98	100197.620	2.5	101524.300	2.5
7535.7855	6.00	-1.92	87218.260	2.0	88544.900	3.0
7535.9616	12.00	-1.15	59689.991	2.0	61016.600	2.0
7535.9616	12.00	-.41	59689.991	2.0	61016.600	3.0
7535.9616	12.00	-.73	59689.991	2.0	61016.600	3.0
7536.4672	23.00	-3.57	37940.080	.5	39266.600	1.5
7538.2289	18.00	-4.51	122609.760	1.0	123935.970	1.0
7538.7404	10.00	-2.44	170880.660	2.0	172206.780	2.0
7538.7404	10.00	-1.29	170880.660	3.0	172206.780	2.0
7538.7404	10.00	-1.99	170875.760	1.0	172201.880	1.0
7538.7404	10.00	-1.55	170875.760	2.0	172201.880	1.0
7542.2382	26.00	-3.83	44183.607	2.0	45509.112	1.0
7542.6195	14.00	.40	59636.667	1.0	60962.105	2.0
7542.7788	9.00	-.96	128611.920	1.5	129937.330	1.5
7542.8357	12.02	-.72	585466.200	1.0	586791.600	2.0
7544.1449	7.00	-2.64	112965.330	3.5	114290.500	2.5
7545.0672	14.00	-.40	58311.659	0.0	59636.667	1.0
7545.8475	14.00	-1.92	57450.580	3.0	58775.451	2.0
7546.2006	10.00	-1.85	170317.638	3.0	171642.447	3.0
7546.4227	14.00	-1.12	59056.508	1.0	60381.278	1.0
7546.4626	10.00	-.55	170317.684	4.0	171642.447	3.0
7546.6791	10.00	-1.98	170317.722	3.0	171642.447	3.0
7546.7930	10.00	-3.15	170317.742	2.0	171642.447	3.0
7547.1634	27.00	-4.91	47393.930	2.5	48718.570	2.5
7547.1804	10.00	-3.31	170880.660	2.0	172205.297	3.0
7547.3400	26.00	-4.70	47377.909	4.0	48702.518	4.0
7547.4483	19.00	-1.90	32648.350	.5	33972.940	1.5
7547.4483	10.00	-1.87	170875.760	1.0	172200.350	0.0
7547.8529	10.00	-.70	170317.638	3.0	171642.157	2.0
7547.9212	10.00	-.56	169534.364	4.0	170858.871	3.0
7547.9611	28.01	-3.78	130900.650	2.5	132225.150	1.5
7548.1321	10.00	-3.21	170880.660	3.0	172205.130	4.0
7548.1891	6.00	-3.13	87837.740	1.0	89162.200	2.0
7548.1891	6.00	-2.34	87837.740	2.0	89162.200	2.0
7548.3315	10.00	-4.03	170317.722	3.0	171642.157	2.0
7548.4455	10.00	-1.86	170317.742	2.0	171642.157	2.0
7549.1580	14.01	.62	121814.640	.5	123138.930	1.5
7549.1922	26.00	-4.43	50045.900	2.0	51370.184	2.0
7549.2721	6.00	-2.17	86482.660	3.0	87806.930	3.0
7549.7851	6.00	-1.37	88198.220	2.0	89522.400	2.0
7549.9106	8.00	-2.32	105441.657	1.0	106765.815	1.0
7549.9106	8.00	-2.69	105441.657	1.0	106765.815	2.0
7549.9106	8.00	-2.02	105441.657	2.0	106765.815	1.0
7549.9106	8.00	-1.69	105441.657	2.0	106765.815	2.0
7549.9106	8.00	-2.39	105441.657	2.0	106765.815	3.0
7549.9106	8.00	-1.31	105441.657	3.0	106765.815	2.0
7549.9106	8.00	-1.37	105441.657	3.0	106765.815	3.0
7549.9106	8.00	-.81	105441.657	4.0	106765.815	3.0
7549.9562	6.00	-4.14	86482.780	2.0	87806.930	3.0
7550.0132	17.00	-3.62	100197.620	2.5	101521.760	3.5
7550.2356	10.00	-2.16	169534.364	4.0	170858.465	4.0
7550.2926	10.00	-.51	169534.374	5.0	170858.465	4.0
7550.2983	17.00	-2.42	100197.670	3.5	101521.760	3.5
7550.3611	8.00	-.96	105441.736	2.0	106765.815	1.0
7550.3611	8.00	-1.80	105441.736	2.0	106765.815	2.0
7550.3611	8.00	-3.59	105441.736	2.0	106765.815	3.0
7550.3611	8.00	-.90	105441.736	3.0	106765.815	2.0
7550.3611	8.00	-2.04	105441.736	3.0	106765.815	3.0
7550.3611	8.00	-.98	105441.736	4.0	106765.815	3.0
7550.6233	10.00	-.80	169538.949	3.0	170862.982	2.0
7550.6633	10.00	-1.89	169538.956	2.0	170862.982	2.0
7550.8116	6.00	-2.48	87819.900	3.0	89143.900	3.0
7550.8685	19.00	-2.20	32648.350	.5	33972.340	.5
7550.9940	7.00	-.71	111285.644	1.5	112609.612	1.5
7551.3819	6.00	-1.61	87820.000	4.0	89143.900	3.0
7551.3819	13.01	-.24	123468.100	3.0	124792.000	2.0
7551.8382	28.01	-4.94	134964.780	1.5	136288.600	2.5
7552.0208	14.00	-.84	57450.580	3.0	58774.368	3.0
7552.6597	14.00	-1.18	61597.404	3.0	62921.080	2.0
7552.7168	17.00	-3.47	100197.670	3.5	101521.336	4.5
7553.2646	28.01	-3.39	132729.480	2.5	134053.050	2.5
7554.2063	18.00	-.85	118906.665	2.0	120230.070	2.0
7554.5203	17.00	-4.79	100899.030	3.5	102222.380	3.5
7554.5203	17.00	-1.39	100899.030	4.5	102222.380	3.5
7554.6345	7.00	-4.36	112967.170	3.5	114290.500	2.5
7555.0913	6.00	-1.00	86412.050	2.0	87735.300	1.0
7555.3196	14.00	-1.54	63340.700	3.0	64663.910	4.0
7555.4224	12.00	-4.25	55891.800	1.0	57214.992	1.0
7555.6908	18.00	.31	118906.665	2.0	120229.810	3.0
7555.7193	6.00	-3.16	87218.260	2.0	88541.400	2.0
7555.9991	7.00	-.22	111501.368	1.5	112824.459	2.5
7556.2333	17.00	-2.39	100899.030	4.5	102222.080	4.5
7556.8902	14.00	-1.61	61598.145	2.0	62921.080	2.0
7557.0330	22.00	-3.64	44162.440	4.0	45485.350	5.0
7557.0901	18.01	-2.04	210438.500	4.5	211761.400	3.5
7557.2043	18.01	-.65	210438.500	4.5	211761.380	4.5
7557.3929	14.00	-2.31	62667.823	3.0	63990.670	2.0
7557.6614	18.01	-4.08	205301.000	2.5	206623.800	3.5
7557.8899	6.00	-1.65	87819.900	3.0	89142.660	2.0
7558.1185	10.00	-.43	171671.920	1.0	172994.640	2.0
7558.4042	23.00	-3.99	39597.010	4.5	40919.680	5.5
7560.1189	18.00	-.86	121191.920	2.0	122514.290	1.0
7560.3076	10.00	-2.02	170882.960	3.0	172205.297	3.0
7560.3076	10.00	-3.74	170882.960	4.0	172205.297	3.0
7560.3477	10.00	-2.86	170317.638	3.0	171639.968	2.0
7560.6907	7.01	-.88	209737.970	3.0	211060.240	4.0
7560.8279	10.00	-.63	170317.722	3.0	171639.968	2.0
7560.9194	28.01	-4.49	120002.860	3.5	121325.090	2.5
7560.9423	10.00	-1.99	170317.742	2.0	171639.968	2.0
7561.2625	10.00	-3.47	170882.960	3.0	172205.130	4.0
7561.2625	10.00	-1.92	170882.960	4.0	172205.130	4.0
7561.2797	17.00	-2.79	84120.263	2.5	85442.430	1.5
7561.5485	28.01	-3.95	114869.350	1.5	116191.470	2.5
7561.6057	22.00	-4.95	44163.240	5.0	45485.350	5.0
7561.7659	18.00	-1.27	121932.908	1.0	123254.990	1.0
7562.1205	28.01	-2.12	135444.470	3.5	136766.490	2.5
7563.3791	6.00	-1.50	85169.610	0.0	86491.410	1.0
7563.7224	10.00	-4.85	172286.800	2.0	173608.540	3.0
7563.7224	10.00	-4.85	172286.800	2.0	173608.540	3.0
7564.0086	17.00	-4.81	100865.820	2.5	102187.510	2.5
7565.0618	14.00	-2.39	62669.164	3.0	63990.670	2.0
7565.0961	7.00	-1.68	112953.500	4.5	114275.000	3.5
7566.6993	10.00	-2.68	170880.660	2.0	172201.880	1.0
7568.2861	14.00	-2.66	62669.727	2.0	63990.670	2.0
7568.3376	8.00	-1.80	106785.172	1.0	108106.106	0.0
7568.3548	8.00	-1.80	106785.172	1.0	108106.103	1.0
7568.3548	8.00	-1.50	106785.172	2.0	108106.103	1.0
7568.3605	28.01	-4.07	137568.000	7.5	138888.930	6.5
7568.3892	8.00	-1.64	106785.172	2.0	108106.097	2.0
7568.3892	8.00	-2.64	106785.172	1.0	108106.097	2.0
7568.3892	8.00	-1.26	106785.172	3.0	108106.097	2.0
7568.4350	8.00	-1.62	106785.172	3.0	108106.089	3.0
7568.4350	8.00	-2.64	106785.172	2.0	108106.089	3.0
7568.4350	8.00	-1.07	106785.172	4.0	108106.089	3.0
7568.4636	8.00	-1.77	106785.172	4.0	108106.084	4.0
7568.4636	8.00	-.90	106785.172	5.0	108106.084	4.0
7568.4636	8.00	-2.94	106785.172	3.0	108106.084	4.0
7568.4751	6.00	-2.97	88198.220	2.0	89519.130	3.0
7568.7043	27.00	-2.05	44555.710	1.5	45876.580	2.5
7568.9163	10.00	-1.09	169530.487	2.0	170851.320	1.0
7568.9393	10.00	-1.52	169530.491	1.0	170851.320	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7570.4925	17.00	-3.18	84121.872	1.5	85442.430	1.5
7571.1117	18.01	-3.61	209338.210	3.5	210658.660	2.5
7571.8572	6.00	-.72	86506.700	2.0	87827.020	2.0
7572.3160	6.00	.42	86506.700	2.0	87826.940	3.0
7573.8076	6.00	-2.56	87762.120	3.0	89082.100	3.0
7573.9338	14.00	.15	57798.072	2.0	59118.030	3.0
7573.9624	10.00	-3.60	169543.029	3.0	170862.982	2.0
7574.1404	10.00	-4.65	169538.949	3.0	170858.871	3.0
7574.1805	10.00	-2.76	169538.956	2.0	170858.871	3.0
7574.3813	6.00	-4.02	87762.220	2.0	89082.100	3.0
7574.3813	14.00	-.59	62450.400	1.0	63770.280	1.0
7575.7015	17.00	-3.39	100899.030	3.5	102218.680	2.5
7576.4709	10.00	-2.75	169538.949	3.0	170858.465	4.0
7577.9181	12.00	-1.57	58023.246	2.0	59342.510	2.0
7577.9181	12.00	-1.10	58023.246	2.0	59342.510	1.0
7578.4408	10.00	-3.61	171675.467	4.0	172994.640	3.0
7578.4408	10.00	-3.02	171675.467	4.0	172994.640	3.0
7578.4408	10.00	-2.08	171675.467	4.0	172994.640	4.0
7579.4348	6.00	-1.44	87763.100	4.0	89082.100	3.0
7579.6072	14.00	-1.82	61617.170	4.0	62936.140	3.0
7579.9577	10.00	-1.19	171675.731	3.0	172994.640	2.0
7579.9577	10.00	-2.16	171675.731	3.0	172994.640	3.0
7579.9577	10.00	-4.20	171675.731	3.0	172994.640	3.0
7579.9577	10.00	-4.26	171675.731	3.0	172994.640	4.0
7580.2393	6.00	-3.69	87763.240	3.0	89082.100	3.0
7580.9291	28.01	-3.79	135618.080	2.5	136936.820	3.5
7581.0786	26.00	-4.08	48531.896	3.0	49850.610	3.0
7581.0843	10.00	-.13	167648.640	2.0	168967.353	1.0
7581.2166	27.00	-4.79	53195.980	2.5	54514.670	3.5
7581.2740	14.00	-1.85	62545.100	1.0	63863.780	2.0
7581.6191	17.00	-3.13	100205.680	1.5	101524.300	2.5
7581.6191	17.00	-2.58	100205.680	2.5	101524.300	2.5
7583.5169	7.01	-2.13	209737.970	3.0	211056.260	3.0
7583.5744	23.02	-2.69	161017.600	3.5	162335.880	3.5
7583.6319	6.00	-.99	86519.470	1.0	87837.740	1.0
7583.6319	6.00	.27	86519.470	1.0	87837.740	2.0
7583.8620	18.01	-1.54	205079.070	2.5	206397.300	3.5
7583.9771	9.00	-3.76	128697.890	2.5	130016.100	2.5
7584.4374	6.00	-1.62	88192.300	1.0	89510.430	2.0
7584.4374	10.00	-5.00	172291.400	1.0	173609.530	1.0
7584.4374	10.00	-5.00	172291.400	1.0	173609.530	1.0
7584.5525	7.00	-3.24	112877.890	3.5	114196.000	2.5
7585.4157	6.00	-4.10	87837.740	2.0	89155.700	3.0
7586.1985	17.00	-1.04	95612.357	1.5	96930.181	.5
7586.3943	22.00	-3.02	40670.600	2.0	41988.390	3.0
7586.4345	10.00	-1.41	169530.491	1.0	170848.274	0.0
7586.4518	6.00	-1.79	87762.120	3.0	89079.900	2.0
7586.5842	9.00	-.15	128064.103	3.5	129381.860	2.5
7586.6245	6.00	-.74	85188.950	1.0	86506.700	2.0
7587.0276	6.00	-3.00	87762.220	2.0	89079.900	2.0
7587.3155	29.01	-3.66	135759.970	2.0	137077.600	3.0
7589.9076	12.00	-1.51	59342.510	1.0	60659.690	2.0
7589.9076	12.00	-1.99	59342.510	2.0	60659.690	2.0
7590.5415	10.00	-4.64	172291.400	2.0	173608.470	2.0
7590.5415	10.00	-4.64	172291.400	2.0	173608.470	2.0
7590.9449	6.00	-3.84	87819.900	3.0	89136.900	4.0
7591.1755	6.00	-2.28	87826.940	3.0	89143.900	3.0
7591.5214	6.00	-2.27	87820.000	4.0	89136.900	4.0
7591.6366	6.00	-3.29	87827.020	2.0	89143.900	3.0
7592.9052	6.00	-1.94	87763.240	3.0	89079.900	2.0
7594.7510	23.00	-3.23	38106.320	2.5	39422.660	2.5
7594.8663	14.00	-2.61	62935.760	3.0	64252.080	2.0
7594.9817	7.00	-3.24	112957.700	1.5	114274.000	2.5
7594.9817	7.00	-4.80	112957.700	2.5	114274.000	2.5
7596.2514	17.00	-4.45	100205.680	2.5	101521.760	3.5
7596.9672	17.00	-3.79	100871.554	3.5	102187.510	2.5
7597.4636	28.01	-3.87	93390.060	2.5	94705.930	3.5
7597.6253	10.00	-1.49	169543.029	3.0	170858.871	3.0
7597.6657	10.00	-4.86	169543.036	4.0	170858.871	3.0
7597.6946	6.00	-1.08	85203.640	2.0	86519.470	1.0
7597.8678	22.00	-3.58	40556.070	1.0	41871.870	2.0
7597.8678	13.01	-.21	146185.000	3.0	147500.800	4.0
7598.3298	6.00	-2.55	87826.940	3.0	89142.660	2.0
7598.3876	28.01	-3.50	130480.550	3.5	131796.260	2.5
7598.7919	6.00	-2.52	87827.020	2.0	89142.660	2.0
7599.2539	28.01	-1.73	118828.610	2.5	120144.170	2.5
7599.6583	22.00	-4.12	40556.070	1.0	41871.560	0.0
7599.9703	10.00	-3.01	169543.029	3.0	170858.465	4.0
7600.0107	10.00	-1.46	169543.036	4.0	170858.465	4.0
7600.4671	14.03	-1.02	313914.920	2.5	315230.270	2.5
7600.4671	14.03	.28	313914.920	2.5	315230.270	3.5
7600.4671	14.03	.13	313914.920	1.5	315230.270	2.5
7600.9295	25.00	-4.68	51787.920	.5	53103.190	1.5
7601.3340	13.01	-.74	146185.000	2.0	147500.200	3.0
7601.3340	13.01	-1.64	146185.000	3.0	147500.200	3.0
7602.3167	24.00	-3.92	48507.560	1.0	49822.590	2.0
7603.6466	13.01	-1.27	146185.000	2.0	147499.800	2.0
7603.6466	13.01	-.54	146185.000	1.0	147499.800	2.0
7603.6466	13.01	-2.81	146185.000	3.0	147499.800	2.0
7603.8200	28.01	-3.14	134067.760	1.5	135382.530	1.5
7604.9190	6.00	-.12	86523.160	0.0	87837.740	1.0
7605.4398	14.00	-3.98	60621.640	0.0	61936.130	1.0
7606.0184	18.01	-.82	210447.010	3.5	211761.400	3.5
7606.1341	18.01	-.10	210447.010	3.5	211761.380	4.5
7606.5219	17.00	-4.88	95180.419	3.5	96494.722	4.5
7607.0022	28.01	-2.54	135622.600	3.5	136936.820	3.5
7607.9864	6.00	-2.24	86449.190	3.0	87763.240	3.0
7608.7970	6.00	-.29	86449.190	3.0	87763.100	4.0
7611.1315	28.00	-1.93	49403.420	1.0	50716.927	1.0
7611.7516	25.00	-4.56	51787.920	.5	53101.320	.5
7612.3312	7.00	-4.68	112868.700	3.5	114182.000	2.5
7612.4007	10.00	-.30	171681.352	2.0	172994.640	2.0
7612.4007	10.00	-5.00	171681.352	2.0	172994.640	3.0
7612.4007	10.00	-1.26	171681.352	2.0	172994.640	3.0
7612.5630	28.01	-4.84	134331.840	4.5	135645.100	5.5
7612.9108	6.00	-2.87	86506.700	2.0	87819.900	3.0
7613.8965	6.00	-2.83	86449.190	3.0	87762.220	2.0
7614.4764	6.00	-.94	86449.190	3.0	87762.120	3.0
7615.2304	9.02	-3.14	464728.420	4.5	466041.220	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7615.9266	6.00	-.94	88198.220	2.0	89510.900	3.0
7616.4488	6.00	-1.63	88135.810	3.0	89448.400	3.0
7616.9710	7.00	-4.57	112880.500	2.5	114193.000	1.5
7617.5515	7.00	-3.56	112946.600	.5	114259.000	1.5
7617.5515	7.00	-2.19	112946.600	1.5	114259.000	1.5
7617.7604	10.00	-2.14	169538.956	2.0	170851.320	1.0
7618.3641	10.00	-1.52	171148.780	0.0	172461.040	1.0
7618.5963	29.01	-2.12	136336.880	1.0	137649.100	2.0
7618.6544	6.00	-2.03	88198.220	2.0	89510.430	2.0
7619.1770	19.00	-2.02	32598.300	2.5	33910.420	2.5
7619.1770	19.00	-.72	32598.300	2.5	33910.420	3.5
7619.8564	14.00	-1.81	61562.477	3.0	62874.480	2.0
7619.9319	19.00	-.88	32598.430	1.5	33910.420	2.5
7621.0356	13.01	-.29	144964.700	4.0	146276.500	3.0
7621.0356	13.01	-.80	144964.700	4.0	146276.500	3.0
7621.0356	13.01	-2.26	144964.700	3.0	146276.500	3.0
7621.5237	10.00	.62	171682.924	1.0	172994.640	2.0
7621.6747	28.01	-4.59	134333.410	5.5	135645.100	5.5
7621.6747	28.01	-3.70	134333.410	6.5	135645.100	5.5
7621.9653	6.00	-1.77	83877.310	1.0	85188.950	1.0
7622.2558	6.00	-2.60	88135.810	3.0	89447.400	2.0
7623.8775	18.00	-4.07	123557.459	3.0	124868.770	3.0
7623.8775	18.00	-3.21	123557.459	3.0	124868.770	4.0
7624.4008	14.00	-.66	49188.617	2.0	50499.838	2.0
7624.8137	7.00	-.14	111501.368	1.5	112812.518	2.5
7626.5587	29.01	-1.04	135733.600	3.0	137044.450	4.0
7630.4005	23.00	-4.42	39127.230	1.5	40437.420	1.5
7631.7403	6.00	-3.58	87826.940	3.0	89136.900	4.0
7632.3870	8.00	-1.32	105441.657	1.0	106751.506	0.0
7632.4278	8.00	-1.37	105441.657	1.0	106751.499	1.0
7632.4278	8.00	-1.07	105441.657	2.0	106751.499	1.0
7632.5036	8.00	-2.32	105441.657	1.0	106751.486	2.0
7632.5036	8.00	-1.32	105441.657	2.0	106751.486	2.0
7632.5036	8.00	-.94	105441.657	3.0	106751.486	2.0
7632.5968	8.00	-2.57	105441.657	2.0	106751.470	3.0
7632.5968	8.00	-1.55	105441.657	3.0	106751.470	3.0
7632.5968	8.00	-.99	105441.657	4.0	106751.470	3.0
7632.6608	8.00	-2.47	105441.657	3.0	106751.459	4.0
7632.6608	8.00	-1.29	105441.657	4.0	106751.459	4.0
7632.6608	8.00	-.43	105441.657	5.0	106751.459	4.0
7632.8882	8.00	-1.92	105441.736	2.0	106751.499	1.0
7632.9640	8.00	-2.17	105441.736	2.0	106751.486	2.0
7632.9640	8.00	-1.27	105441.736	3.0	106751.486	2.0
7633.0571	8.00	-1.87	105441.736	3.0	106751.470	3.0
7633.0571	8.00	-.81	105441.736	4.0	106751.470	3.0
7633.0571	8.00	-3.42	105441.736	2.0	106751.470	3.0
7633.4301	7.00	-3.38	112965.330	3.5	114275.000	3.5
7634.0364	14.00	.08	59506.359	2.0	60815.925	2.0
7635.2957	10.00	.18	171685.290	2.0	172994.640	2.0
7635.2957	10.00	-1.48	171685.290	2.0	172994.640	3.0
7635.2957	10.00	-2.79	171685.290	2.0	172994.640	3.0
7635.5873	15.00	-1.56	76425.200	2.5	77734.500	2.5
7636.7480	10.00	-2.76	171685.539	3.0	172994.640	3.0
7636.7480	10.00	-1.60	171685.539	3.0	172994.640	3.0
7636.7480	10.00	-1.35	171685.539	3.0	172994.640	4.0
7636.7480	10.00	-.96	171685.539	3.0	172994.640	2.0
7637.6874	14.00	-3.93	62986.320	2.0	64295.260	3.0
7638.3876	28.01	-4.16	66571.340	2.5	67880.160	2.5
7638.3876	23.00	-3.91	37940.080	.5	39248.900	1.5
7639.2631	7.00	-3.51	112965.330	3.5	114274.000	2.5
7639.4499	7.00	.10	109856.520	1.5	111165.158	1.5
7639.7652	18.00	-.55	119760.220	1.0	121068.804	1.0
7640.7812	28.01	-2.35	135628.410	4.5	136936.820	3.5
7640.9272	28.00	-4.61	42954.234	2.0	44262.619	2.0
7641.4820	29.01	-4.28	136765.380	4.0	138073.670	4.0
7641.4820	6.00	-3.26	86498.640	2.0	87806.930	3.0
7641.5404	9.02	-.65	465414.140	2.5	466722.420	2.5
7642.5335	27.00	-1.39	44568.470	2.5	45876.580	2.5
7643.4099	12.01	.62	108900.030	2.5	110207.990	1.5
7643.5269	7.00	-3.11	112967.060	4.5	114275.000	3.5
7644.2282	28.01	-2.88	135652.930	1.5	136960.750	2.5
7644.3451	12.01	-.33	108900.190	1.5	110207.990	1.5
7644.7484	18.00	-3.35	123557.459	3.0	124865.190	2.0
7645.1635	6.00	-2.62	86469.510	3.0	87777.170	3.0
7645.3974	14.00	-2.25	62935.760	3.0	64243.380	2.0
7645.6254	18.00	-2.78	123557.459	3.0	124865.040	3.0
7645.8067	6.00	-.54	86519.470	1.0	87827.020	2.0
7646.0406	6.00	-1.26	86469.660	4.0	87777.170	3.0
7646.5669	28.01	-2.45	135629.400	3.5	136936.820	3.5
7648.8134	7.00	-3.40	112868.700	3.5	114175.736	3.5
7650.4875	28.01	-4.71	134323.880	1.5	135630.630	2.5
7650.6982	7.00	-1.70	110194.654	1.5	111501.368	1.5
7650.9793	28.00	-2.27	44112.192	1.0	45418.858	2.0
7653.7147	7.00	-1.41	111501.368	1.5	112807.567	.5
7653.7674	28.01	-3.31	135630.630	2.5	136936.820	3.5
7653.9432	6.00	-3.52	87837.740	2.0	89143.900	3.0
7654.8809	15.00	-0.00	75353.400	1.5	76659.400	2.5
7656.6749	12.00	-.75	58575.487	3.0	59881.181	2.0
7656.7512	12.00	-2.04	58575.487	3.0	59881.168	3.0
7656.7688	12.00	-1.06	58575.518	2.0	59881.196	1.0
7656.8567	12.00	-1.97	58575.518	2.0	59881.181	2.0
7656.8567	12.00	-2.89	58575.518	3.0	59881.181	2.0
7656.9329	12.00	-3.34	58575.518	2.0	59881.168	3.0
7656.9329	12.00	-2.16	58575.518	3.0	59881.168	3.0
7657.4608	6.00	-1.55	87341.040	0.0	88646.600	1.0
7657.6778	26.00	-.65	49502.530	5.0	50808.053	4.0
7661.0990	28.01	-1.85	135461.550	2.5	136766.490	2.5
7661.2164	6.00	-4.05	87837.740	1.0	89142.660	2.0
7661.2164	6.00	-3.29	87837.740	2.0	89142.660	2.0
7663.5890	17.00	-2.28	94482.236	2.5	95786.752	2.5
7664.0355	29.01	-3.92	134359.900	1.0	135664.340	1.0
7664.2118	28.01	-4.31	117074.700	3.5	118379.110	2.5
7665.9749	7.00	-1.50	112877.890	3.5	114182.000	2.5
7667.5035	28.01	-3.79	134336.680	5.5	135640.530	4.5
7667.7976	9.00	-2.53	128712.300	1.5	130016.100	2.5
7669.0916	6.00	-1.95	86469.510	3.0	87773.090	2.0
7669.3270	22.00	-2.92	42858.900	3.0	44162.440	4.0
7670.0624	10.00	-4.81	169705.925	0.0	171009.340	1.0
7670.2096	12.01	.36	108900.190	1.5	110203.580	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7670.4450	26.00	-.49	49558.500	4.0	50861.850	3.0
7670.6216	18.01	-1.92	203918.150	1.5	205221.470	1.5
7671.4398	18.00	-2.09	123557.459	3.0	124860.640	4.0
7671.6222	23.00	-4.99	36700.780	2.5	38003.930	1.5
7671.9755	28.01	-4.69	134327.540	3.5	135630.630	2.5
7672.1521	6.00	.27	85203.640	2.0	86506.700	2.0
7672.4465	17.00	-4.59	101223.330	2.5	102526.340	2.5
7672.9176	17.00	-3.32	101223.330	2.5	102526.260	3.5
7674.5668	12.00	-.73	58578.518	4.0	59881.168	3.0
7675.5096	12.01	.64	113030.250	.5	114332.740	1.5
7675.6864	6.00	-.39	85188.950	1.0	86491.410	1.0
7676.2758	10.00	-4.87	171686.620	1.0	172988.980	1.0
7679.2240	28.01	-4.37	134327.540	3.5	135629.400	3.5
7680.5809	28.01	-.21	135464.860	3.5	136766.490	2.5
7681.9383	6.00	-2.11	86411.980	3.0	87713.380	3.0
7682.1154	29.01	-3.83	135733.600	3.0	137034.970	3.0
7682.3515	6.00	-3.19	86412.050	2.0	87713.380	3.0
7682.5287	7.00	-2.47	112957.700	1.5	114259.000	1.5
7682.5287	7.00	-4.49	112957.700	2.5	114259.000	1.5
7684.4182	18.00	-1.68	123773.920	3.0	125074.900	2.0
7684.5896	12.00	-1.30	58580.230	1.0	59881.181	2.0
7685.9543	29.01	-2.99	136919.350	3.0	138220.070	4.0
7686.7580	10.00	-4.70	171686.620	2.0	172987.204	2.0
7686.9117	18.00	-3.16	118459.662	1.0	119760.220	1.0
7687.2545	14.00	-1.07	62421.030	3.0	63721.530	2.0
7687.5501	28.01	-4.93	66579.710	1.5	67880.160	2.5
7689.1111	14.00	-1.58	60856.630	1.0	62156.816	2.0
7689.4422	27.00	-2.11	45924.980	3.5	47225.110	3.5
7690.2703	14.00	-2.99	62450.400	1.0	63750.390	1.0
7690.5129	18.00	-3.59	123254.990	1.0	124554.939	1.0
7691.3353	23.02	-4.22	161085.300	4.5	162385.110	3.5
7691.9270	28.01	-4.26	134323.880	1.5	135623.590	1.5
7692.1638	9.00	-1.18	128184.990	.5	129484.660	1.5
7692.2052	7.00	-.24	111501.368	1.5	112801.031	1.5
7692.2822	12.01	-.06	113033.090	1.5	114332.740	1.5
7692.6373	12.01	.90	113033.090	1.5	114332.680	2.5
7692.9332	14.00	-1.65	62545.100	1.0	63844.640	0.0
7694.2359	14.00	-1.36	62718.990	0.0	64018.310	1.0
7695.3789	28.00	-2.10	49159.060	2.0	50458.187	1.0
7696.4867	29.01	-2.79	136765.380	4.0	138064.320	5.0
7696.7831	6.00	-2.54	86414.490	3.0	87713.380	3.0
7697.3045	12.00	-2.25	59881.168	3.0	61179.970	2.0
7697.3045	12.00	-.92	59881.168	3.0	61179.970	3.0
7697.3045	12.00	-1.11	59881.168	3.0	61179.970	3.0
7697.3045	12.00	.36	59881.168	3.0	61179.970	4.0
7697.3816	12.00	-.88	59881.181	2.0	61179.970	2.0
7697.3816	12.00	-.19	59881.181	2.0	61179.970	3.0
7697.3816	12.00	-.38	59881.181	2.0	61179.970	3.0
7697.4705	12.00	.03	59881.196	1.0	61179.970	2.0
7697.7905	28.01	-4.42	134323.880	2.5	135622.600	3.5
7697.9683	6.00	-1.53	86414.690	4.0	87713.380	3.0
7699.6284	28.01	-4.99	114869.350	1.5	116167.760	1.5
7700.3875	26.00	-4.54	49850.610	3.0	51148.892	2.0
7700.4587	23.00	-3.95	37025.600	3.5	38323.870	4.5
7702.1613	10.00	-1.95	170532.717	2.0	171830.700	1.0
7702.1792	6.00	-2.26	87341.040	0.0	88639.020	1.0
7702.9150	7.00	-1.21	112877.880	4.5	114175.736	3.5
7702.9744	7.00	-2.93	112877.890	3.5	114175.736	3.5
7704.1082	17.00	-4.23	100889.855	3.5	102187.510	2.5
7704.3160	14.00	-2.41	62954.460	3.0	64252.080	2.0
7704.4347	13.01	-.48	146274.400	2.0	147572.000	1.0
7704.7494	17.00	-1.91	95706.534	1.5	97004.081	1.5
7705.7412	17.00	-4.85	100890.130	2.5	102187.510	2.5
7706.3055	14.00	-1.42	60300.860	2.0	61598.145	2.0
7706.5787	22.00	-4.23	37852.021	1.0	39149.260	2.0
7707.4403	10.00	-4.69	171690.110	3.0	172987.204	2.0
7707.5234	14.00	-4.29	62955.000	2.0	64252.080	2.0
7707.8800	23.00	-3.23	37940.080	.5	39237.100	.5
7709.7226	6.00	-2.04	84103.100	2.0	85399.810	2.0
7709.8416	18.01	-.40	210464.710	2.5	211761.400	3.5
7710.3768	30.02	-3.16	260613.100	5.0	261909.700	4.0
7710.5552	28.01	-4.76	134331.840	4.5	135628.410	4.5
7710.6741	23.00	-3.23	38003.930	1.5	39300.480	2.5
7710.7098	14.00	.19	60300.860	2.0	61597.404	3.0
7712.2206	28.01	-1.78	135640.530	4.5	136936.820	3.5
7712.5777	6.00	-1.62	86411.980	3.0	87708.210	2.0
7712.9941	6.00	-2.64	86412.050	2.0	87708.210	2.0
7713.4702	28.01	-4.48	128912.810	2.5	130208.890	3.5
7713.7678	28.01	-4.38	134323.880	2.5	135619.910	1.5
7713.7678	28.01	-4.08	134323.880	1.5	135619.910	1.5
7714.0654	28.01	-4.07	134327.610	2.5	135623.590	1.5
7714.5000	3.00	-.12	39095.000	0.0	40391.260	0.0
7715.9111	6.00	-2.18	88135.810	3.0	89431.480	2.0
7716.4173	17.00	-2.64	100246.855	1.5	101542.440	1.5
7716.4292	10.00	-2.55	170532.717	2.0	171828.300	2.0
7716.8640	28.01	-2.52	116468.400	1.5	117763.910	1.5
7718.2581	8.00	.35	103869.968	2.0	105165.244	1.0
7718.6156	8.00	.13	103870.028	1.0	105165.244	1.0
7718.7706	29.01	-2.72	116371.410	4.0	117666.600	4.0
7719.5574	16.00	.32	77889.582	2.0	79184.640	1.0
7719.9507	8.00	-.35	103870.252	0.0	105165.244	1.0
7719.9627	28.01	-4.87	134327.610	2.5	135622.600	3.5
7720.1415	7.01	-2.31	209737.970	3.0	211032.930	2.0
7721.5368	14.00	-1.60	56503.346	2.0	57798.072	2.0
7721.6919	17.01	-3.42	149798.300	2.0	151093.000	3.0
7722.8253	6.00	-1.57	86482.660	3.0	87777.170	3.0
7722.8849	7.00	-1.53	112953.500	4.5	114248.000	3.5
7723.5412	6.00	-2.58	86482.780	2.0	87777.170	3.0
7724.0185	19.00	-.38	33178.120	2.5	34472.430	1.5
7724.6751	28.01	-3.93	134323.880	2.5	135618.080	2.5
7724.6751	28.01	-4.34	134323.880	1.5	135618.080	2.5
7724.6751	21.00	-2.21	35745.570	2.5	37039.770	2.5
7724.6751	19.00	-1.34	33178.230	1.5	34472.430	1.5
7725.2123	9.02	-1.56	465414.140	2.5	466708.250	1.5
7725.6839	9.00	-.50	128087.829	2.5	129381.860	2.5
7726.1676	19.00	-.64	33178.230	1.5	34472.180	.5
7726.5258	28.01	-2.44	122140.710	4.5	123434.600	4.5
7726.6213	7.00	-1.12	111271.596	.5	112565.470	.5
7726.6452	18.01	-1.64	210438.500	4.5	211732.370	4.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7726.9140	14.00	-.19	60010.458	1.0	61304.283	2.0
7727.3022	18.01	-.53	210438.500	4.5	211732.260	5.5
7727.5411	6.00	-2.32	86414.490	3.0	87708.210	2.0
7728.6463	18.00	-3.38	122609.760	1.0	123903.295	2.0
7729.3932	28.01	.84	129367.910	6.5	130661.320	5.5
7729.6323	14.00	-2.80	62421.030	3.0	63714.400	2.0
7729.7757	18.00	-3.17	123261.593	2.0	124554.939	1.0
7730.7082	9.02	-1.75	467827.160	1.5	469120.350	1.5
7730.9174	26.00	-2.71	50534.435	3.0	51827.590	2.0
7730.9234	18.00	-2.61	115366.900	1.0	116660.054	1.0
7733.0164	17.00	-3.51	100249.636	2.5	101542.440	1.5
7733.3394	10.01	-4.35	302307.750	2.5	303600.500	2.5
7733.5189	28.01	-4.82	134336.680	4.5	135629.400	3.5
7735.6731	9.02	-.79	467827.160	1.5	469119.520	2.5
7736.0323	28.01	-4.21	134327.610	2.5	135619.910	1.5
7736.0323	6.00	-1.99	83877.310	1.0	85169.610	0.0
7736.3316	23.00	-4.16	37834.980	1.5	39127.230	1.5
7736.3316	18.01	-4.18	209337.870	4.5	210630.120	3.5
7736.4513	29.01	-2.94	117747.450	3.0	119039.680	2.0
7736.6309	19.00	-1.33	32764.800	2.5	34057.000	1.5
7736.7507	10.01	-4.35	302307.750	2.5	303599.930	3.5
7736.9902	19.00	-1.17	32764.800	3.5	34056.940	2.5
7736.9902	19.00	-2.47	32764.800	2.5	34056.940	2.5
7737.2297	7.01	-1.46	209737.970	3.0	211030.070	3.0
7737.5890	6.00	-2.01	87762.120	3.0	89054.160	2.0
7738.1280	6.00	-1.78	88159.870	0.0	89451.820	1.0
7738.1879	6.00	-2.69	87762.220	2.0	89054.160	2.0
7738.3676	18.01	-2.64	209338.210	3.5	210630.120	3.5
7738.3736	7.00	-.91	112953.400	5.5	114245.309	4.5
7738.4275	13.01	-.35	138799.300	0.0	140091.200	1.0
7738.9727	7.00	-2.01	112953.500	4.5	114245.309	4.5
7739.2961	26.00	-4.75	49242.680	2.0	50534.435	3.0
7739.6736	26.00	-4.78	46744.975	3.0	48036.667	2.0
7740.7044	23.00	-4.09	36814.800	1.5	38106.320	2.5
7742.0231	7.00	-3.11	112868.700	3.5	114160.000	2.5
7742.3229	28.01	-2.42	129842.330	2.5	131133.580	2.5
7742.9826	9.02	-2.13	442636.270	3.5	443927.410	3.5
7743.2044	18.00	-3.17	118469.117	2.0	119760.220	1.0
7743.2224	6.00	-3.59	86469.510	3.0	87760.610	4.0
7744.1222	6.00	-2.35	86469.660	4.0	87760.610	4.0
7744.3021	6.00	-1.77	87763.240	3.0	89054.160	2.0
7745.9222	14.00	-1.73	61305.670	1.0	62596.320	2.0
7746.5824	28.01	-4.31	134327.540	3.5	135618.080	2.5
7747.0026	28.01	-3.79	134327.610	2.5	135618.080	2.5
7747.2428	6.00	-2.06	86482.660	3.0	87773.090	2.0
7747.9633	6.00	-1.78	86482.780	2.0	87773.090	2.0
7752.8302	28.01	-3.30	134316.800	7.5	135606.300	6.5
7752.9324	10.00	-3.56	170532.717	2.0	171822.200	1.0
7753.6119	14.00	-.99	61936.130	1.0	63225.500	2.0
7753.7321	28.01	-3.36	134316.850	6.5	135606.200	5.5
7755.0553	28.01	-3.97	134334.460	1.5	135623.590	1.5
7756.0059	7.00	-.90	110212.396	2.5	111501.368	1.5
7756.3188	14.00	-1.83	62954.460	3.0	64243.380	2.0
7759.5698	14.00	-2.58	62955.000	2.0	64243.380	2.0
7760.1118	14.00	-.86	62596.320	2.0	63884.610	1.0
7760.2625	14.00	-3.08	61647.875	2.0	62936.140	3.0
7760.7625	26.00	-3.44	49135.003	3.0	50423.185	4.0
7761.8591	13.01	.88	145126.500	2.0	146414.500	3.0
7762.4015	22.00	-5.00	40670.600	2.0	41958.510	2.0
7762.9319	18.00	-1.31	121932.908	1.0	123220.730	2.0
7763.2453	6.00	-.36	85203.640	2.0	86491.410	1.0
7764.6382	18.00	.24	121191.920	2.0	122479.459	1.0
7766.7435	18.01	-2.17	210438.500	4.5	211725.690	3.5
7767.6064	7.00	-.70	109856.520	1.5	111143.567	.5
7767.7693	18.01	-4.95	201720.670	1.5	203007.690	1.5
7767.8901	28.00	-2.02	49171.187	1.0	50458.187	1.0
7769.1215	11.00	-.85	38012.044	.5	39298.840	1.5
7770.3051	30.02	-3.75	260623.100	4.0	261909.700	4.0
7771.6702	26.00	-1.80	53838.600	3.0	55124.974	3.0
7772.0810	11.00	-1.15	38012.044	.5	39298.350	.5
7773.2353	17.00	-2.00	100246.855	1.5	101532.970	1.5
7774.6558	18.00	-2.33	123773.920	3.0	125059.800	2.0
7774.8977	28.01	-4.94	107082.210	2.5	108368.050	2.5
7776.3492	7.00	-2.36	112946.600	.5	114232.200	1.5
7776.3492	7.00	-2.16	112946.600	1.5	114232.200	1.5
7776.3492	13.01	-.54	145128.900	3.0	146414.500	3.0
7776.3492	13.01	-.35	145128.900	3.0	146414.500	4.0
7776.3492	13.01	.76	145128.900	3.0	146414.500	4.0
7776.7545	18.00	-.66	123372.987	2.0	124658.520	2.0
7777.2566	28.01	-3.99	134334.460	1.5	135619.910	1.5
7777.8012	18.01	-1.01	210447.010	3.5	211732.370	4.5
7778.8300	26.00	-.52	50045.900	2.0	51331.090	2.0
7779.4353	10.00	-.66	167639.561	1.0	168924.651	2.0
7780.2344	17.00	-3.03	98383.430	4.5	99668.388	3.5
7781.9907	17.00	-2.77	98383.720	3.5	99668.388	3.5
7782.6450	21.00	-6.82	14926.240	2.5	16210.800	3.5
7783.4933	28.01	-4.30	119909.720	1.5	121194.140	2.5
7786.6458	8.01	-1.60	274782.400	3.5	276066.300	2.5
7787.3130	26.00	-4.68	52682.930	2.0	53966.720	2.0
7787.7376	6.00	-1.73	84116.090	1.0	85399.810	2.0
7788.2836	18.01	-1.09	210477.770	3.5	211761.400	3.5
7788.3443	28.01	-4.18	134334.460	1.5	135618.080	2.5
7788.4050	18.01	-.41	210477.770	3.5	211761.380	4.5
7789.7886	16.00	-.37	77901.258	0.0	79184.640	1.0
7789.8372	17.00	-3.19	100249.636	2.5	101533.010	2.5
7790.0799	17.00	-3.38	100249.636	2.5	101532.970	1.5
7790.5899	14.01	.32	121814.640	.5	123097.890	.5
7791.0513	26.00	-4.81	50456.790	3.0	51739.964	2.0
7791.0756	23.00	-4.31	38115.650	3.5	39398.820	3.5
7792.1080	15.00	-2.16	79339.400	1.5	80622.400	2.5
7793.2378	7.00	-.17	111326.798	2.5	112609.612	1.5
7794.1126	7.00	-3.21	112965.330	3.5	114248.000	3.5
7794.3557	28.01	-2.38	129842.330	2.5	131124.960	3.5
7795.3890	9.02	-4.74	466544.700	1.5	467827.160	1.5
7795.4497	27.00	-3.68	48201.600	3.5	49484.050	3.5
7795.7537	13.01	-.41	145132.100	4.0	146414.500	4.0
7795.7537	13.01	-.55	145132.100	4.0	146414.500	4.0
7795.7537	13.01	1.11	145132.100	4.0	146414.500	5.0
7795.7537	13.01	-1.98	145132.100	4.0	146414.500	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7798.2164	18.00	-.33	118906.665	2.0	120188.660	2.0
7798.8005	26.00	-4.53	47960.973	4.0	49242.872	3.0
7799.0621	18.00	-1.21	123468.034	1.0	124749.890	0.0
7799.9504	10.00	-4.76	169727.630	1.0	171009.340	1.0
7800.1330	23.00	-4.44	37959.660	2.5	39241.340	2.5
7800.1635	18.00	-1.28	118906.665	2.0	120188.340	1.0
7802.6838	7.00	-.70	110220.107	1.5	111501.368	1.5
7802.6899	28.01	-3.59	135618.080	2.5	136899.340	2.5
7804.2127	18.00	-.32	122601.290	1.0	123882.300	1.0
7804.6392	7.00	-3.45	112967.060	4.5	114248.000	3.5
7805.7970	10.01	-2.46	302247.780	3.5	303528.530	3.5
7806.4065	18.01	-1.67	205056.220	1.5	206336.870	2.5
7808.1747	6.00	-2.90	87218.260	2.0	88498.620	2.0
7809.0895	27.00	-4.21	27497.060	2.5	28777.270	3.5
7810.4989	7.00	-4.31	112965.330	3.5	114245.309	4.5
7810.6147	10.01	-1.83	302247.780	3.5	303527.740	4.5
7811.4082	28.01	-4.37	130470.900	4.5	131750.730	3.5
7811.4326	7.00	-.41	111285.644	1.5	112565.470	.5
7811.5302	6.00	-1.68	87633.750	2.0	88913.560	2.0
7813.0198	20.00	-2.60	47550.214	2.0	48829.780	2.0
7813.0198	20.00	-1.70	47550.214	2.0	48829.780	1.0
7813.0198	20.00	-3.97	47550.214	2.0	48829.780	3.0
7813.3679	20.00	-1.69	47550.271	3.0	48829.780	2.0
7813.3679	20.00	-2.43	47550.271	3.0	48829.780	3.0
7813.4229	7.00	-3.79	112880.500	2.5	114160.000	1.5
7813.4229	7.00	-4.94	112880.500	2.5	114160.000	2.5
7813.8503	28.01	-3.53	135619.910	1.5	136899.340	2.5
7813.9785	20.00	-1.37	47550.371	4.0	48829.780	3.0
7814.3328	26.00	-3.28	45726.104	5.0	47005.455	5.0
7814.6443	13.01	-.18	138811.900	1.0	140091.200	1.0
7814.6443	13.01	.03	138811.900	1.0	140091.200	0.0
7814.6443	13.01	-1.27	138811.900	1.0	140091.200	2.0
7814.6443	13.01	.30	138811.900	2.0	140091.200	1.0
7814.6443	13.01	-.09	138811.900	2.0	140091.200	2.0
7814.6443	13.01	.65	138811.900	3.0	140091.200	2.0
7816.5996	28.01	-3.65	100475.820	3.5	101754.800	2.5
7817.6998	15.00	-2.07	77843.300	1.5	79122.100	1.5
7818.1339	26.00	-4.22	32133.977	2.0	33412.706	3.0
7818.4335	18.01	-1.00	210447.010	3.5	211725.690	3.5
7818.9838	18.01	-1.99	210447.010	3.5	211725.600	2.5
7819.3508	6.00	-2.77	86498.640	2.0	87777.170	3.0
7819.9012	14.00	-3.16	61647.360	1.0	62925.800	1.0
7821.0697	7.00	-4.69	112967.060	4.5	114245.309	4.5
7821.3695	15.00	-2.64	77843.900	2.5	79122.100	1.5
7822.2079	18.00	.29	123372.987	2.0	124651.050	1.0
7822.2263	6.00	-4.96	73975.910	0.0	75253.970	1.0
7822.8996	6.00	-2.89	86482.660	3.0	87760.610	4.0
7823.0526	14.00	-.90	61647.875	2.0	62925.800	1.0
7823.2056	8.01	-1.20	254481.500	3.5	255759.400	3.5
7825.4102	24.00	-3.61	48824.500	4.0	50102.040	3.0
7825.8206	20.00	-4.02	46479.813	1.0	47757.286	2.0
7825.9921	17.00	-1.65	100246.855	1.5	101524.300	2.5
7826.5435	7.00	.04	109926.661	2.5	111204.016	2.5
7826.8805	24.00	-3.19	53541.250	2.0	54818.550	2.0
7827.0031	28.01	-4.69	135618.080	2.5	136895.360	3.5
7827.0827	14.00	-2.33	62667.823	3.0	63945.090	3.0
7827.8611	28.01	-4.77	118379.110	2.5	119656.250	3.5
7828.2533	14.00	-1.72	61597.404	3.0	62874.480	2.0
7828.3514	9.02	-2.75	442636.270	3.5	443913.330	4.5
7829.0258	10.01	-4.94	317663.130	1.5	318940.080	1.5
7830.3135	28.01	-4.46	135622.600	3.5	136899.340	2.5
7831.7183	18.00	-1.87	124554.939	1.0	125831.450	0.0
7832.7982	14.00	-2.94	61598.145	2.0	62874.480	2.0
7833.7741	22.00	-3.95	18145.400	2.0	19421.576	3.0
7834.7870	10.00	.16	167648.640	2.0	168924.651	2.0
7835.3090	14.00	-3.47	62669.164	3.0	63945.090	3.0
7835.4012	14.00	-1.30	62669.179	4.0	63945.090	3.0
7836.3900	28.01	-3.81	135623.590	1.5	136899.340	2.5
7836.8015	10.00	-1.52	171324.017	1.0	172599.700	0.0
7837.1947	18.00	-3.22	118407.494	1.0	119683.113	2.0
7838.7679	14.00	-3.78	62669.727	2.0	63945.090	3.0
7840.2617	28.01	-4.98	134323.880	1.5	135599.000	.5
7840.9381	19.00	-.04	28999.270	.5	30274.280	.5
7841.0919	26.00	-.23	49558.500	4.0	50833.485	5.0
7841.2456	9.02	-4.56	464921.740	3.5	466196.700	3.5
7842.9803	18.00	.52	121165.431	3.0	122440.109	2.0
7843.0665	17.00	-2.40	100249.636	2.5	101524.300	2.5
7843.7680	20.00	-2.01	47555.230	3.0	48829.780	2.0
7843.8049	17.00	-2.25	100249.636	2.5	101524.180	3.5
7843.8296	6.00	-2.90	86498.550	1.0	87773.090	2.0
7844.0757	7.00	-1.89	112957.700	1.5	114232.200	1.5
7844.3834	6.00	-3.85	86498.640	2.0	87773.090	2.0
7844.9375	28.01	-2.20	135606.200	5.5	136880.560	4.5
7845.3069	8.01	-2.80	254481.500	3.5	255755.800	2.5
7847.3390	6.00	-1.54	87341.040	0.0	88615.010	1.0
7847.4622	10.00	-1.53	170557.050	1.0	171831.000	0.0
7848.8793	14.00	-2.61	61647.360	1.0	62921.080	2.0
7849.3107	10.00	-3.81	170557.050	1.0	171830.700	1.0
7851.5299	24.00	-4.94	40982.970	2.0	42256.260	3.0
7851.8999	28.01	-2.52	135493.260	1.5	136766.490	2.5
7852.0540	14.00	-1.98	61647.875	2.0	62921.080	2.0
7853.9972	28.01	-4.84	134333.410	5.5	135606.300	6.5
7853.9972	28.01	-4.99	134333.410	6.5	135606.300	6.5
7854.7994	28.01	-3.95	135622.600	3.5	136895.360	3.5
7856.1573	18.00	-.02	122609.760	1.0	123882.300	1.0
7858.7264	17.00	-2.56	100249.636	2.5	101521.760	3.5
7859.2021	16.00	.11	77912.593	1.0	79184.640	1.0
7860.8521	18.00	-.02	122601.290	1.0	123873.070	0.0
7860.9757	18.00	-3.62	123254.990	1.0	124526.750	0.0
7862.0885	28.01	-4.07	128912.810	2.5	130184.390	2.5
7862.6451	18.01	-3.52	209337.870	4.5	210609.360	3.5
7863.2016	18.01	-2.55	209337.870	4.5	210609.270	4.5
7864.1295	10.00	-2.83	170557.050	1.0	171828.300	2.0
7864.5006	28.01	-1.93	135461.550	2.5	136732.740	1.5
7864.8718	14.00	-.53	62450.400	1.0	63721.530	2.0
7865.3049	18.01	-4.19	209338.210	3.5	210609.270	4.5
7866.0475	20.00	-1.10	44989.830	2.0	46260.770	2.0
7866.8522	6.00	-.94	86491.410	1.0	87762.220	2.0
7867.0380	28.01	-2.83	101754.800	2.5	103025.580	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7867.3475	38.01	-.75	67522.870	0.0	68793.946	0.0
7868.4435	18.00	-4.39	123372.987	2.0	124643.540	1.0
7869.3911	15.00	-2.55	78069.000	1.5	79339.400	1.5
7869.4965	10.00	-.89	170532.717	2.0	171803.100	2.0
7870.7541	28.01	-3.89	130480.550	3.5	131750.730	3.5
7871.4978	28.01	-1.72	118874.110	3.5	120144.170	2.5
7872.2416	28.01	-3.16	135629.400	3.5	136899.340	2.5
7872.9855	18.01	-3.17	209337.870	4.5	210607.690	4.5
7873.8537	18.01	-1.44	209337.870	4.5	210607.550	5.5
7875.0942	18.01	-1.53	209338.210	3.5	210607.690	4.5
7879.3458	26.00	-.39	50423.185	4.0	51691.980	3.0
7879.8737	28.01	-3.04	135630.630	2.5	136899.340	2.5
7880.6191	18.01	-2.53	200880.520	3.5	202149.110	2.5
7880.8675	20.00	-.63	44989.830	2.0	46258.380	1.0
7881.1782	15.00	-3.73	78133.500	2.5	79402.000	2.5
7882.1102	9.00	-1.11	128338.720	.5	129607.070	.5
7883.2476	18.00	-4.23	122635.128	2.0	123903.295	2.0
7885.6976	22.00	-4.19	27614.667	4.0	28882.440	3.0
7887.3961	28.01	-4.64	128958.370	3.5	130225.870	3.5
7887.6449	14.00	-1.43	62596.320	2.0	63863.780	2.0
7889.2011	28.01	-4.99	119913.330	4.5	121180.540	4.5
7890.0105	28.01	-.90	118877.090	1.5	120144.170	2.5
7890.7204	26.00	-4.60	45333.834	2.0	46600.800	1.0
7890.8201	28.01	-4.08	135628.410	4.5	136895.360	3.5
7892.2591	28.00	-2.99	47686.625	0.0	48953.344	1.0
7893.1875	19.00	.26	29007.710	1.5	30274.280	.5
7894.8705	18.00	-1.40	123808.600	2.0	125074.900	2.0
7895.9929	14.00	-4.13	62985.960	1.0	64252.080	2.0
7896.5542	18.01	-3.11	203151.200	2.5	204417.230	1.5
7896.7849	14.00	-.73	59221.110	0.0	60487.103	1.0
7897.5398	14.00	-.98	59034.988	3.0	60300.860	2.0
7898.2387	14.00	-3.29	62986.320	2.0	64252.080	2.0
7899.3433	10.00	-1.83	170532.717	2.0	171798.300	1.0
7899.7364	14.00	-1.42	62318.700	0.0	63584.220	1.0
7900.5481	28.01	-4.00	94067.140	1.5	95332.530	2.5
7901.2349	28.01	.29	129396.040	5.5	130661.320	5.5
7901.9218	6.00	-2.55	88260.370	2.0	89525.540	1.0
7902.0468	10.00	-3.82	170557.050	1.0	171822.200	1.0
7904.0460	26.02	-4.84	201164.210	2.0	202429.040	1.0
7904.0460	9.00	-.71	128219.830	1.5	129484.660	1.5
7905.6086	28.01	-4.98	128944.310	2.5	130208.890	3.5
7905.8587	28.01	-3.91	134334.460	1.5	135599.000	.5
7908.6105	26.00	-4.20	50803.350	2.0	52067.450	2.0
7908.7356	6.00	-4.40	87827.020	2.0	89091.100	1.0
7909.1110	24.00	-3.37	48558.570	2.0	49822.590	2.0
7909.2362	18.00	-1.92	123808.600	2.0	125072.600	1.0
7909.2362	14.00	-.57	62450.400	1.0	63714.400	2.0
7910.1749	28.01	-3.60	100490.950	1.5	101754.800	2.5
7913.1176	15.00	-3.46	67113.820	2.5	68377.200	3.5
7913.5561	18.00	-.33	122609.760	1.0	123873.070	0.0
7914.5585	21.00	-2.38	35671.000	1.5	36934.150	1.5
7916.3132	22.00	-2.96	40844.190	3.0	42107.060	4.0
7917.5671	23.00	-3.60	38003.930	1.5	39266.600	1.5
7919.2605	7.00	-2.05	112946.600	1.5	114209.000	.5
7919.2605	7.00	-3.99	112946.600	.5	114209.000	.5
7919.7624	14.02	-3.38	249103.900	2.0	250366.220	3.0
7920.5154	6.00	-3.59	87819.900	3.0	89082.100	3.0
7921.1429	6.00	-3.37	87820.000	4.0	89082.100	3.0
7921.5823	6.00	-2.63	88260.370	2.0	89522.400	2.0
7923.4030	10.01	-4.37	302247.780	3.5	303509.520	2.5
7924.1755	14.00	-.20	60300.860	2.0	61562.477	3.0
7925.2371	22.00	-4.15	18061.540	1.0	19322.988	2.0
7926.6698	28.01	-4.96	128912.810	2.5	130174.030	1.5
7928.0968	26.00	-4.37	48036.667	2.0	49297.660	1.0
7928.1785	18.01	-.63	210464.710	2.5	211725.690	3.5
7928.7443	18.01	-.96	210464.710	2.5	211725.600	2.5
7928.9959	28.01	-2.53	129842.330	2.5	131103.180	2.5
7930.1280	28.01	-3.98	121180.550	5.5	122441.220	4.5
7930.9458	14.00	-1.52	62226.390	1.0	63486.930	1.0
7932.6828	12.00	-.73	59041.019	2.0	60301.283	3.0
7932.6828	12.00	-1.14	59041.019	2.0	60301.283	3.0
7932.6828	12.00	-1.50	59041.019	2.0	60301.283	2.0
7934.0300	22.00	-4.78	20209.444	2.0	21469.494	3.0
7934.3448	6.00	-3.41	87819.900	3.0	89079.900	2.0
7934.5967	14.00	-1.69	60621.640	0.0	61881.600	1.0
7935.7304	16.00	-4.06	77149.490	1.0	78409.270	2.0
7936.4234	28.01	-3.60	128924.940	6.5	130184.610	5.5
7936.8266	14.00	-1.92	57541.918	1.0	58801.524	1.0
7937.3686	6.00	-2.51	88192.300	1.0	89451.820	1.0
7938.3140	18.00	-4.51	123815.530	1.0	125074.900	2.0
7939.7577	9.00	-1.20	128122.719	1.5	129381.860	2.5
7939.9532	12.01	.17	113030.250	.5	114289.360	.5
7940.7542	10.00	-1.83	170532.717	2.0	171791.700	2.0
7940.9181	7.00	-.18	111501.368	1.5	112760.325	2.5
7941.0254	26.02	-3.96	201170.100	0.0	202429.040	1.0
7941.1074	12.00	-3.32	59400.763	3.0	60659.690	2.0
7941.1074	12.00	-1.43	59400.763	3.0	60659.690	2.0
7941.1074	12.00	-2.88	59400.763	2.0	60659.690	2.0
7942.1610	6.00	-.95	88260.370	2.0	89519.130	3.0
7943.1832	7.00	-1.20	111501.368	1.5	112759.966	1.5
7944.2057	14.00	-2.56	57798.072	2.0	59056.508	1.0
7946.4537	9.00	.02	128514.750	3.5	129772.830	2.5
7946.8327	28.01	-4.41	128950.870	3.5	130208.890	3.5
7947.4013	18.01	-2.71	205079.070	2.5	206337.000	3.5
7948.2227	18.01	-2.84	205079.070	2.5	206336.870	2.5
7949.4235	27.00	-1.64	43847.980	3.5	45105.590	3.5
7950.1821	28.01	-3.96	128939.740	1.5	130197.230	1.5
7950.6247	14.00	-4.05	62985.960	1.0	64243.380	2.0
7952.0160	9.02	-3.26	464939.500	2.5	466196.700	3.5
7952.8384	18.00	-4.30	123815.530	1.0	125072.600	1.0
7952.8827	18.00	.13	121257.227	1.0	122514.290	1.0
7952.9017	14.00	-3.21	62986.320	2.0	64243.380	2.0
7952.9648	18.00	-2.42	124526.750	0.0	125783.800	1.0
7955.9395	12.00	-2.49	59403.110	1.0	60659.690	2.0
7956.1929	6.00	-1.32	86506.700	2.0	87763.240	3.0
7956.4461	15.01	-3.84	110252.000	1.0	111508.500	0.0
7956.6361	21.00	-4.37	15756.510	2.5	17012.980	2.5
7957.9028	12.01	.47	113033.090	1.5	114289.360	.5
7958.2829	6.00	-1.92	83947.430	3.0	85203.640	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
7958.4412	7.00	-1.13	110245.183	.5	111501.368	1.5
7962.2760	24.00	-3.47	44050.870	4.0	45306.450	5.0
7962.3394	26.02	-4.38	199139.760	5.0	200395.330	5.0
7962.6565	6.00	-1.61	86506.700	2.0	87762.220	2.0
7963.2908	6.00	-.58	86506.700	2.0	87762.120	3.0
7964.9404	6.00	-4.13	87826.940	3.0	89082.100	3.0
7965.3211	6.00	-1.87	88192.300	1.0	89447.400	2.0
7966.3367	14.00	-1.73	62231.990	2.0	63486.930	1.0
7966.6541	16.00	-3.63	77180.310	2.0	78435.200	3.0
7967.0350	28.01	-3.31	135640.530	4.5	136895.360	3.5
7967.8605	15.00	-.37	79339.400	1.5	80594.100	1.5
7968.4955	18.01	-.59	210477.770	3.5	211732.370	4.5
7970.5095	10.00	-.71	170532.717	2.0	171787.000	3.0
7971.9523	20.00	-4.34	47006.194	2.0	48260.250	3.0
7972.4989	20.00	-2.80	47006.280	3.0	48260.250	3.0
7973.0076	24.00	-4.02	48558.570	2.0	49812.460	3.0
7973.2620	20.00	-1.74	47006.400	4.0	48260.250	3.0
7974.2032	14.00	-1.25	60706.558	1.0	61960.260	0.0
7974.8521	6.00	-2.39	88198.220	2.0	89451.820	1.0
7975.0429	28.01	-4.04	135512.920	2.5	136766.490	2.5
7975.8700	28.01	-3.31	135599.000	.5	136852.440	1.5
7976.3791	6.00	-4.44	87837.740	1.0	89091.100	1.0
7976.3791	6.00	-4.50	87837.740	2.0	89091.100	1.0
7978.2251	9.02	-1.50	443753.060	2.5	445006.130	2.5
7978.9256	6.00	-4.77	87826.940	3.0	89079.900	2.0
7979.1802	28.01	-4.24	128944.310	2.5	130197.230	1.5
7979.4350	6.00	-4.40	87827.020	2.0	89079.900	2.0
7980.0338	20.00	-2.86	47006.194	2.0	48258.980	2.0
7980.5815	20.00	-1.96	47006.280	3.0	48258.980	2.0
7981.7284	6.00	-2.48	86482.780	2.0	87735.300	1.0
7982.4932	10.00	-2.19	171009.340	1.0	172261.740	1.0
7982.6207	27.00	-2.63	45876.580	2.5	47128.960	2.5
7982.9840	26.00	-3.97	45061.287	3.0	46313.610	2.0
7984.0870	28.01	-4.38	135628.410	4.5	136880.560	4.5
7984.3676	20.00	-2.12	47006.194	2.0	48258.300	1.0
7984.4696	28.01	-3.72	119909.720	1.5	121161.810	1.5
7984.7885	14.00	-2.84	62935.760	3.0	64187.800	3.0
7985.0435	6.00	-2.70	79310.850	2.0	80562.850	1.0
7987.5955	22.00	-2.70	42724.110	2.0	43975.710	1.0
7987.7168	20.00	-.85	46303.649	2.0	47555.230	3.0
7989.5105	7.00	-1.81	112957.700	1.5	114209.000	.5
7990.1491	18.00	-2.21	123808.600	2.0	125059.800	2.0
7990.4045	28.01	-3.97	135629.400	3.5	136880.560	4.5
7991.2348	26.02	-3.94	201178.010	1.0	202429.040	1.0
7991.4265	13.01	0.00	144939.100	1.0	146190.100	0.0
7991.4903	14.00	-1.90	62936.810	4.0	64187.800	3.0
7992.1931	28.01	-2.99	121190.340	4.5	122441.220	4.5
7993.8547	14.00	-1.19	62519.660	2.0	63770.280	1.0
7994.1103	23.02	-4.21	161085.300	4.5	162335.880	3.5
7994.3021	18.00	-4.04	124526.750	0.0	125777.300	1.0
7994.4299	6.00	-1.63	88260.370	2.0	89510.900	3.0
7994.4939	28.01	-4.72	128958.370	3.5	130208.890	3.5
7994.8135	7.01	-2.08	210239.830	1.0	211490.300	2.0
7996.6681	6.00	-1.26	88198.220	2.0	89448.400	3.0
7997.4357	6.00	-3.06	88260.370	2.0	89510.430	2.0
7998.0116	27.00	-4.71	44782.130	4.5	46032.100	4.5
7998.2675	10.00	-1.21	171312.870	0.0	172562.800	1.0
7998.3059	7.00	-.90	110035.720	.5	111285.644	1.5
7998.7155	6.00	-.01	84935.340	1.0	86185.200	2.0
8000.6807	26.00	-.46	49558.500	4.0	50808.053	4.0
8000.6998	9.00	-2.12	128523.280	1.5	129772.830	2.5
8001.0328	17.00	-4.09	98418.890	3.5	99668.388	3.5
8001.6604	7.00	-3.87	112946.600	1.5	114196.000	2.5
8001.7693	10.00	-.83	171324.017	1.0	172573.400	2.0
8002.1087	29.01	-3.05	137649.100	2.0	138898.430	1.0
8002.3778	17.00	-3.28	98419.100	2.5	99668.388	3.5
8002.7493	14.00	-1.02	62534.080	4.0	63783.310	4.0
8003.0696	6.00	-1.94	88198.220	2.0	89447.400	2.0
8003.1273	20.00	-4.42	46306.059	3.0	47555.230	3.0
8003.6463	29.01	-4.67	136754.110	2.0	138003.200	2.0
8004.3512	26.00	-4.58	50861.320	2.0	52110.300	1.0
8004.3512	28.01	-4.82	128966.520	5.5	130215.500	4.5
8006.2293	17.00	-.08	96594.096	.5	97842.783	1.5
8006.3255	7.00	-1.45	109812.233	.5	111060.905	.5
8007.4927	15.01	-1.88	104054.700	1.0	105303.190	1.0
8008.9553	26.00	-3.31	50456.790	3.0	51705.052	2.0
8009.0900	20.00	-.17	46301.973	1.0	47550.214	2.0
8009.1606	23.00	-4.91	37075.640	4.5	38323.870	4.5
8009.4236	18.00	-.20	121191.920	2.0	122440.109	2.0
8009.9948	8.01	-1.76	254895.200	2.5	256143.300	3.5
8010.3157	18.00	-2.27	123826.850	2.0	125074.900	2.0
8011.1502	18.01	-1.37	210477.770	3.5	211725.690	3.5
8011.3427	14.00	-.12	62534.080	4.0	63781.970	5.0
8011.7280	18.01	-3.15	210477.770	3.5	211725.600	2.5
8013.2049	9.02	-.88	465541.000	1.5	466788.600	2.5
8013.9758	9.00	-1.22	128525.350	2.5	129772.830	2.5
8014.4897	30.02	-3.38	260988.400	4.0	262235.800	3.0
8015.8135	26.00	-1.38	50698.666	2.0	51945.860	1.0
8015.9549	18.00	.37	122635.128	2.0	123882.300	1.0
8017.2341	20.00	-.01	46308.257	2.0	47555.230	3.0
8017.3820	28.01	-3.36	119656.250	3.5	120903.200	3.5
8017.4464	6.00	-1.79	85169.610	0.0	86416.550	1.0
8018.6681	7.01	-1.47	210239.830	1.0	211486.580	1.0
8019.3500	26.00	-1.46	50698.666	2.0	51945.310	2.0
8019.4915	20.00	-.06	46303.649	2.0	47550.271	3.0
8019.8582	20.00	-.97	46303.649	2.0	47550.214	2.0
8020.2957	14.00	-3.10	61423.230	3.0	62669.727	2.0
8020.9198	7.00	-3.78	112946.600	1.5	114193.000	1.5
8020.9199	28.01	-1.55	135652.930	1.5	136899.330	1.5
8021.8853	28.01	-4.79	113623.100	.5	114869.350	1.5
8022.0140	28.01	-.54	118897.940	2.5	120144.170	2.5
8022.4646	22.00	-.80	41985.830	3.0	43231.990	4.0
8022.4646	28.01	-4.40	128960.740	5.5	130206.900	4.5
8023.1728	19.00	-.56	31695.890	2.5	32941.940	1.5
8023.1728	10.00	-1.88	170557.050	1.0	171803.100	2.0
8023.8232	14.00	.21	61423.230	3.0	62669.179	4.0
8023.9198	14.00	-2.06	61423.230	3.0	62669.164	3.0
8024.1388	13.01	-.41	144939.100	1.0	146185.000	1.0
8024.1388	13.01	.06	144939.100	1.0	146185.000	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8024.8473	19.00	-1.51	31696.150	1.5	32941.940	1.5
8025.1050	18.00	-2.85	123826.850	2.0	125072.600	1.0
8026.3936	6.00	-1.15	85203.640	2.0	86449.190	3.0
8029.4234	18.00	-.43	124041.200	1.0	125286.280	1.0
8030.0038	10.00	-2.42	171009.340	1.0	172254.330	0.0
8030.1329	23.00	-3.40	38003.930	1.5	39248.900	1.5
8030.5844	18.00	.69	124041.380	2.0	125286.280	1.0
8030.7134	28.01	-4.27	128960.740	6.5	130205.620	5.5
8032.1974	28.01	-4.41	128939.740	1.5	130184.390	2.5
8032.5652	14.00	-.89	61423.230	3.0	62667.823	3.0
8032.5846	23.00	-3.89	36695.490	.5	37940.080	.5
8034.3792	20.00	.16	46306.059	3.0	47550.371	4.0
8034.6505	18.00	-4.97	123815.530	1.0	125059.800	2.0
8035.0250	20.00	-.90	46306.059	3.0	47550.271	3.0
8035.3931	20.00	-2.45	46306.059	3.0	47550.214	2.0
8035.9421	6.00	-3.61	79318.780	1.0	80562.850	1.0
8036.0067	19.00	-.81	31696.150	1.5	32940.210	.5
8036.2522	26.00	-2.19	54134.820	2.0	55378.842	2.0
8037.2149	12.00	-2.98	59318.764	3.0	60562.637	2.0
8037.2149	12.00	-1.65	59318.764	3.0	60562.637	3.0
8037.2149	12.00	-1.85	59318.764	3.0	60562.637	3.0
8037.2149	12.00	-.37	59318.764	3.0	60562.637	4.0
8037.2342	6.00	-2.11	86469.510	3.0	87713.380	3.0
8037.2859	12.00	-1.61	59318.775	2.0	60562.637	2.0
8037.2859	12.00	-.92	59318.775	2.0	60562.637	3.0
8037.2859	12.00	-1.11	59318.775	2.0	60562.637	3.0
8037.4022	12.00	-.70	59318.793	1.0	60562.637	2.0
8037.4345	20.00	-3.95	47015.141	3.0	48258.980	2.0
8038.2035	6.00	-.82	86469.660	4.0	87713.380	3.0
8038.9275	18.00	-2.62	121270.682	2.0	122514.290	1.0
8040.7896	17.00	-2.77	100989.990	3.5	102233.310	2.5
8044.1086	22.00	-3.02	33085.153	0.0	34327.960	1.0
8044.4776	6.00	-1.66	86519.470	1.0	87762.220	2.0
8045.9861	26.00	-3.99	49737.110	5.0	50979.627	4.0
8046.7438	18.00	-.88	123832.500	3.0	125074.900	2.0
8046.9381	28.01	-4.62	128966.520	4.5	130208.890	3.5
8048.2986	6.00	-3.92	87837.740	2.0	89079.900	2.0
8048.8169	6.00	-2.55	87718.560	1.0	88960.640	0.0
8049.2446	20.00	-.91	46308.257	2.0	47550.271	3.0
8049.6141	20.00	-1.77	46308.257	2.0	47550.214	2.0
8051.0208	28.01	-.33	129419.580	4.5	130661.320	5.5
8051.1505	11.00	-1.02	39298.350	.5	40540.070	1.5
8051.5395	28.01	-3.53	128946.150	7.5	130187.810	6.5
8051.6692	22.00	-1.03	41906.510	2.0	43148.150	3.0
8051.7340	28.01	-4.81	120144.170	2.5	121385.800	1.5
8052.1880	22.00	-4.34	38544.380	3.0	39785.940	4.0
8053.3556	9.00	-1.00	128140.480	2.5	129381.860	2.5
8053.8940	26.00	-3.88	54134.820	2.0	55376.117	1.0
8054.1990	10.00	-1.14	170557.050	1.0	171798.300	1.0
8054.3288	11.00	-.77	39298.840	1.5	40540.070	2.5
8054.3288	11.00	-1.72	39298.840	1.5	40540.070	1.5
8057.3213	26.00	-3.75	46137.140	3.0	47377.909	4.0
8058.0292	18.01	-1.07	203344.980	1.5	204585.640	2.5
8058.5489	14.00	.08	62519.660	2.0	63760.240	3.0
8059.8287	14.00	-1.54	61562.477	3.0	62802.860	3.0
8061.0180	6.00	-1.84	87633.750	2.0	88873.950	2.0
8061.3495	26.00	-3.15	46720.824	4.0	47960.973	4.0
8061.7980	26.00	-4.78	53061.280	5.0	54301.360	4.0
8061.7980	28.01	-3.97	128944.310	2.5	130184.390	2.5
8061.7980	26.00	-4.06	53061.280	5.0	54301.360	4.0
8062.0256	20.00	.04	41679.008	1.0	42919.053	2.0
8062.1231	28.01	-3.07	135640.530	4.5	136880.560	4.5
8062.5782	28.01	-4.57	116732.510	2.5	117972.470	3.5
8064.3343	6.00	-4.94	79323.160	0.0	80562.850	1.0
8065.7005	28.01	-2.20	135493.260	1.5	136732.740	1.5
8065.9608	9.00	-3.11	128697.890	2.5	129937.330	1.5
8066.0259	14.00	-.52	61305.670	1.0	62545.100	1.0
8067.4579	14.00	-2.53	62534.080	4.0	63773.290	3.0
8067.6402	18.00	-.04	121932.908	1.0	123172.090	1.0
8067.6532	29.01	-3.74	116643.960	3.0	117883.140	4.0
8067.6532	6.00	-1.44	88192.300	1.0	89431.480	2.0
8068.1741	28.01	-4.65	128966.520	5.5	130205.620	5.5
8069.4245	14.00	-1.17	61563.952	4.0	62802.860	3.0
8070.2387	10.00	-1.53	171324.017	1.0	172562.800	1.0
8070.7794	8.01	-3.33	254590.700	4.5	255829.400	3.5
8070.7794	6.00	-.90	86469.510	3.0	87708.210	2.0
8070.8446	12.00	.08	57204.163	3.0	58442.853	2.0
8070.9098	12.00	-1.47	57204.163	3.0	58442.843	3.0
8071.4375	12.00	-.51	57204.275	2.0	58442.874	1.0
8071.5744	12.00	-.70	57204.275	3.0	58442.853	2.0
8071.5744	12.00	-1.42	57204.275	2.0	58442.853	2.0
8071.6396	12.00	-1.63	57204.275	3.0	58442.843	3.0
8071.6396	12.00	-.18	57204.275	4.0	58442.843	3.0
8071.6396	12.00	-2.79	57204.275	2.0	58442.843	3.0
8072.1024	7.00	-.92	109926.661	2.5	111165.158	1.5
8075.8647	18.00	-1.23	125286.280	1.0	126524.200	0.0
8075.9300	28.01	-3.18	119665.290	2.5	120903.200	3.5
8077.9529	22.00	-3.96	37976.780	2.0	39214.380	3.0
8078.0834	6.00	-2.31	83747.390	2.0	84984.970	3.0
8078.2793	22.00	-.57	42092.520	4.0	43330.070	5.0
8078.8146	22.00	-4.37	33090.492	1.0	34327.960	1.0
8079.9768	28.01	-.39	129424.030	5.5	130661.320	5.5
8080.1727	28.01	-2.94	119909.720	1.5	121146.980	2.5
8081.8057	27.00	-2.99	46375.170	1.5	47612.180	1.5
8081.8645	18.00	-2.63	124554.939	1.0	125791.940	2.0
8082.5244	8.01	-1.55	254590.700	4.5	255827.600	4.5
8083.5048	6.00	-3.04	86498.550	1.0	87735.300	1.0
8084.0931	6.00	-3.37	86498.640	2.0	87735.300	1.0
8086.2508	7.01	-1.29	209823.910	4.0	211060.240	4.0
8089.2213	7.00	-1.60	110035.720	.5	111271.596	.5
8091.0741	7.00	-.93	111501.368	1.5	112736.961	1.5
8091.9451	28.01	-3.28	135645.100	5.5	136880.560	4.5
8092.0761	23.00	-3.06	38106.320	2.5	39341.760	3.5
8092.3381	7.00	-4.16	112946.600	1.5	114182.000	2.5
8093.1898	26.00	-4.93	54555.450	4.0	55790.720	3.0
8093.4518	9.02	-4.37	443770.900	3.5	445006.130	2.5
8093.5829	24.00	-4.17	44050.870	4.0	45286.080	4.0
8094.2775	10.00	-4.72	171752.100	1.0	172987.204	2.0
8094.2775	10.00	-4.72	171752.100	1.0	172987.204	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8094.9132	14.00	-2.24	58775.451	2.0	60010.458	1.0
8095.1558	18.01	-3.25	189934.550	.5	191169.520	1.5
8096.0080	6.00	-.62	84950.360	2.0	86185.200	2.0
8096.1194	17.00	-2.24	97184.277	3.5	98419.100	2.5
8096.4670	22.00	-3.47	41624.130	4.0	42858.900	3.0
8097.2539	10.00	-.89	170557.050	1.0	171791.700	2.0
8097.3851	18.00	.93	124051.650	2.0	125286.280	1.0
8097.4965	17.00	-.77	97184.277	3.5	98418.890	3.5
8099.1563	28.01	-4.54	135618.080	2.5	136852.440	1.5
8099.5500	18.01	-.31	210527.100	2.5	211761.400	3.5
8099.6156	28.01	-4.53	128939.740	1.5	130174.030	1.5
8099.8124	6.00	-3.70	87819.900	3.0	89054.160	2.0
8101.0727	14.00	-1.59	57798.072	2.0	59032.140	2.0
8102.2085	17.00	-2.78	94663.670	1.5	95897.565	1.5
8104.6716	28.01	-4.73	128950.870	3.5	130184.390	2.5
8105.1316	28.01	-3.49	129842.330	2.5	131075.780	1.5
8105.8545	14.00	-2.43	62954.460	3.0	64187.800	3.0
8106.3802	6.00	-1.40	88198.220	2.0	89431.480	2.0
8106.9719	23.00	-3.29	38003.930	1.5	39237.100	.5
8108.4185	18.00	-2.51	123826.850	2.0	125059.800	2.0
8109.4050	14.00	-4.98	62955.000	2.0	64187.800	3.0
8111.1815	28.01	-3.71	135619.910	1.5	136852.440	1.5
8111.9713	9.02	-3.50	442636.270	3.5	443868.680	2.5
8112.1030	17.00	-.81	100989.990	3.5	102222.380	3.5
8112.3662	7.01	-2.75	209823.910	4.0	211056.260	3.0
8113.7488	18.00	-4.31	124857.420	2.0	126089.560	3.0
8114.0781	17.00	.14	100989.990	3.5	102222.080	4.5
8114.2098	28.01	-2.83	135493.260	1.5	136725.330	.5
8121.2628	18.00	-1.34	123808.600	2.0	125039.600	1.0
8122.8267	26.00	.16	49737.110	5.0	50967.873	6.0
8122.8465	22.00	-4.12	40670.600	2.0	41901.360	1.0
8123.0445	14.00	-2.19	62519.660	2.0	63750.390	1.0
8123.1105	6.00	-2.94	86482.660	3.0	87713.380	3.0
8123.2491	14.00	-3.61	61303.381	3.0	62534.080	4.0
8123.4405	7.00	-4.12	112965.330	3.5	114196.000	2.5
8123.9025	8.01	-1.12	254895.200	1.5	256125.800	2.5
8123.9025	8.01	-1.56	254895.200	2.5	256125.800	2.5
8123.9025	6.00	-4.74	86482.780	2.0	87713.380	3.0
8124.8929	38.01	.19	67563.150	0.0	68793.935	0.0
8126.8876	26.00	-1.10	50880.152	1.0	52110.300	1.0
8129.7161	28.01	-4.71	128944.310	2.5	130174.030	1.5
8129.9806	18.01	-2.19	210531.700	5.5	211761.380	4.5
8130.6947	14.00	-.73	60706.558	1.0	61936.130	1.0
8131.0386	28.01	-4.05	133735.260	2.5	134964.780	1.5
8134.7436	16.00	-4.54	77180.310	2.0	78409.270	2.0
8135.0084	18.00	-1.11	124860.640	4.0	126089.560	3.0
8135.3990	18.00	-4.74	124554.939	1.0	125783.800	1.0
8135.4718	28.01	-2.83	135623.590	1.5	136852.440	1.5
8135.5380	28.01	-1.89	135670.490	.5	136899.330	1.5
8135.5380	14.00	-3.49	62534.080	4.0	63762.920	4.0
8136.5312	17.00	-2.21	100989.990	3.5	102218.680	2.5
8136.9285	24.01	-4.21	53271.070	2.5	54499.700	1.5
8137.6637	18.00	-.59	125066.501	2.0	126295.020	3.0
8138.4587	18.00	-2.65	125066.501	2.0	126294.900	3.0
8139.1146	29.01	-1.31	137913.800	1.0	139142.100	2.0
8140.3076	14.00	-1.88	62534.080	4.0	63762.200	3.0
8141.7661	8.01	-.46	254895.200	2.5	256123.100	3.5
8142.0246	12.00	.41	57714.992	1.0	58442.853	2.0
8143.7557	6.00	-1.49	85188.950	1.0	86416.550	1.0
8145.3017	14.00	-1.53	61306.713	4.0	62534.080	4.0
8145.7464	18.00	-1.34	123832.500	3.0	125059.800	2.0
8146.2773	6.00	-4.66	87826.940	3.0	89054.160	2.0
8146.8085	6.00	-4.29	87827.020	2.0	89054.160	2.0
8147.2732	28.01	-4.34	128960.740	6.5	130187.810	6.5
8148.3357	22.00	-1.23	41854.010	1.0	43080.920	2.0
8148.3357	27.00	-2.84	43555.220	3.5	44782.130	4.5
8148.6678	29.01	-3.25	137034.970	3.0	138261.830	3.0
8150.3618	14.00	-2.18	61647.875	2.0	62874.480	2.0
8150.5279	26.00	-1.87	53328.870	4.0	54555.450	4.0
8151.0595	18.01	-2.70	210534.900	4.5	211761.400	3.5
8151.1925	18.01	-1.56	210534.900	4.5	211761.380	4.5
8151.3852	18.00	-1.84	119023.699	4.0	120250.150	3.0
8151.3852	18.00	-.30	119023.699	4.0	120250.150	4.0
8154.2508	28.01	-4.11	128958.370	3.5	130184.390	2.5
8155.0490	18.01	-4.22	201781.790	2.5	203007.690	1.5
8155.1687	12.00	-2.28	59881.168	3.0	61107.050	2.0
8155.1687	12.00	-.95	59881.168	3.0	61107.050	3.0
8155.1687	12.00	-1.14	59881.168	3.0	61107.050	3.0
8155.1687	12.00	.33	59881.168	3.0	61107.050	4.0
8155.2153	26.00	-3.71	47005.455	5.0	48231.330	5.0
8155.2552	12.00	-.90	59881.181	2.0	61107.050	2.0
8155.2552	12.00	-.23	59881.181	2.0	61107.050	3.0
8155.2552	12.00	-.39	59881.181	2.0	61107.050	3.0
8155.3550	12.00	0.00	59881.196	1.0	61107.050	2.0
8155.4481	28.01	-4.82	107142.210	1.5	108368.050	2.5
8155.7143	13.01	.47	146274.400	2.0	147500.200	3.0
8157.3113	18.00	-3.98	122601.290	1.0	123826.850	2.0
8157.3779	6.00	-2.85	86482.660	3.0	87708.210	2.0
8158.1767	6.00	-2.63	86482.780	2.0	87708.210	2.0
8158.7759	6.00	-2.25	87735.300	1.0	88960.640	0.0
8159.8414	14.00	-1.49	62545.100	1.0	63770.280	1.0
8160.3743	15.00	-.58	75484.400	2.5	76709.500	3.5
8160.6407	19.00	-.71	31953.170	2.5	33178.230	1.5
8160.8406	9.00	-2.21	128712.300	1.5	129937.330	1.5
8161.3735	19.00	-.56	31953.170	3.5	33178.120	2.5
8161.3735	19.00	-1.86	31953.170	2.5	33178.120	2.5
8163.0395	28.01	-4.17	53037.930	2.5	54262.630	3.5
8164.2394	18.00	-1.75	124865.040	3.0	126089.560	3.0
8164.9729	9.02	-4.52	466544.700	1.5	467769.110	.5
8165.2397	18.00	-.85	124865.190	2.0	126089.560	3.0
8165.9734	7.01	-1.54	210266.040	2.0	211490.300	2.0
8167.2408	18.00	-3.72	123815.530	1.0	125039.600	1.0
8167.4410	27.00	-2.07	45105.590	3.5	46329.630	2.5
8168.5755	28.01	-4.60	128960.740	5.5	130184.610	5.5
8169.6436	6.00	-.81	83761.260	3.0	84984.970	3.0
8170.0642	17.00	-3.07	95706.534	1.5	96930.181	.5
8170.0642	17.00	-2.15	97149.323	.5	98372.970	1.5
8171.3730	18.00	-1.84	118459.662	1.0	119683.113	2.0
8172.4485	18.01	-.69	201030.300	.5	202253.590	1.5
8174.6270	7.00	-1.46	110103.834	1.5	111326.798	2.5
8175.3891	21.00	-3.41	36330.490	2.5	37553.340	2.5
8175.8370	14.00	-.08	59273.575	1.0	60496.358	2.0
8178.6596	18.00	-2.27	124554.939	1.0	125777.300	1.0
8179.4961	7.00	-1.41	112953.500	4.5	114175.736	3.5
8179.5228	18.00	.06	121257.227	1.0	122479.459	1.0
8181.9662	14.00	-.23	61447.860	2.0	62669.727	2.0
8182.3479	28.01	-2.91	135630.630	2.5	136852.440	1.5
8182.6158	6.00	-1.86	86411.980	3.0	87633.750	2.0
8183.0846	6.00	-2.01	86412.050	2.0	87633.750	2.0
8185.7380	14.00	.95	61447.860	2.0	62669.164	3.0
8187.8162	18.00	-4.84	119847.810	1.0	121068.804	1.0
8187.9772	28.01	-.63	118923.200	3.5	120144.170	2.5
8188.1784	22.00	-2.38	42858.900	3.0	44079.840	2.0
8189.1844	18.00	-2.87	124868.770	3.0	126089.560	3.0
8189.1844	18.00	-2.10	124868.770	4.0	126089.560	3.0
8189.2515	10.01	-1.88	302307.750	2.5	303528.530	3.5
8189.5199	14.00	-2.75	62421.030	3.0	63641.770	3.0
8189.7883	17.01	-2.80	149798.300	2.0	151019.000	2.0
8190.8619	7.01	-1.93	210266.040	2.0	211486.580	1.0
8191.8014	15.00	-.38	79402.000	2.5	80622.400	2.5
8194.7358	14.00	-.75	59636.667	1.0	60856.630	1.0
8194.7358	14.00	.31	61447.860	2.0	62667.823	3.0
8195.6965	28.01	-.49	135512.920	2.5	136732.740	1.5
8198.6337	10.00	-1.16	170532.717	2.0	171752.100	1.0
8199.1245	14.00	-1.50	62968.490	4.0	64187.800	3.0
8199.4607	6.00	-.91	86414.490	3.0	87633.750	2.0
8199.7971	14.00	-2.02	62802.860	3.0	64022.070	3.0
8202.9592	28.01	-3.55	132225.150	1.5	133443.890	2.5
8203.6458	17.00	.28	94482.236	2.5	95700.874	3.5
8204.2383	27.00	-4.81	44658.030	1.5	45876.580	2.5
8204.9116	24.01	-4.73	53566.220	3.5	54784.670	3.5
8204.9789	14.00	-4.15	62802.860	3.0	64021.300	2.0
8207.3365	28.01	-4.98	128966.520	4.5	130184.610	5.5
8207.3365	28.01	-4.83	128966.520	5.5	130184.610	5.5
8207.6060	10.00	-3.26	171043.690	2.0	172261.740	1.0
8208.3271	26.00	-4.90	45509.112	1.0	46727.055	2.0
8208.3608	17.00	-1.25	96494.722	4.5	97712.660	4.5
8208.5630	17.00	.48	96494.722	4.5	97712.630	5.5
8210.9091	6.00	-2.65	87341.040	0.0	88558.600	1.0
8212.2581	24.00	-3.52	44068.720	3.0	45286.080	4.0
8213.0003	14.00	-2.26	62802.860	3.0	64020.110	4.0
8214.0800	18.00	-3.50	122609.760	1.0	123826.850	2.0
8216.0375	17.00	-1.15	96313.330	1.5	97530.130	2.5
8216.7129	30.02	-3.47	260613.100	5.0	261829.800	5.0
8216.9830	26.00	-3.88	50475.320	4.0	51691.980	3.0
8217.2126	26.00	-4.74	44378.420	1.0	45595.046	0.0
8217.7936	14.00	-2.45	62802.860	3.0	64019.400	3.0
8218.6042	6.00	-4.58	87837.740	2.0	89054.160	2.0
8219.0366	26.00	-4.46	50803.350	2.0	52019.706	1.0
8219.5029	26.00	-4.99	50611.303	3.0	51827.590	2.0
8219.6854	26.01	-4.92	86124.140	4.5	87340.400	5.5
8221.4564	26.00	-4.19	46744.975	3.0	47960.973	4.0
8224.6083	18.00	-2.47	123653.238	4.0	124868.770	3.0
8224.6083	18.00	-1.07	123653.238	4.0	124868.770	4.0
8227.7828	7.00	-.79	110286.305	2.5	111501.368	1.5
8228.0740	24.00	-4.68	41043.350	3.0	42258.370	4.0
8229.5641	21.00	-3.37	14926.240	2.5	16141.040	2.5
8230.5398	22.00	-2.71	18911.399	2.0	20126.055	3.0
8230.7837	28.01	-2.28	135746.130	1.5	136960.750	2.5
8232.0037	14.00	-.54	62141.800	1.0	63356.240	2.0
8233.3596	18.00	-.39	122601.290	1.0	123815.530	1.0
8233.6308	15.00	-.52	79122.100	1.5	80336.300	2.5
8233.9563	14.00	-.17	60381.278	1.0	61595.430	1.0
8234.5125	16.00	-1.12	80112.130	2.0	81326.200	1.0
8235.0144	18.00	-2.38	118469.117	2.0	119683.113	2.0
8235.0550	14.00	-1.76	61305.670	1.0	62519.660	2.0
8235.9370	22.00	-4.92	46068.040	4.0	47281.900	3.0
8238.0545	22.00	-3.46	33114.412	2.0	34327.960	1.0
8238.1902	14.00	-.98	59273.575	1.0	60487.103	1.0
8241.9733	12.00	-.95	58477.020	1.0	59689.991	2.0
8241.9800	29.01	-.08	136725.930	5.0	137938.900	4.0
8242.3877	6.00	-2.56	85203.640	2.0	86416.550	1.0
8242.7955	28.01	-4.99	133445.750	4.5	134658.600	4.5
8243.4752	18.00	-1.64	123826.850	2.0	125039.600	1.0
8244.3589	18.01	-.67	210512.980	1.5	211725.600	2.5
8245.1137	12.00	-1.09	59689.991	2.0	60902.500	2.0
8245.1137	12.00	-.33	59689.991	2.0	60902.500	3.0
8245.1137	12.00	-.74	59689.991	2.0	60902.500	3.0
8245.2701	20.00	-2.35	47550.214	2.0	48762.700	2.0
8245.2701	20.00	-1.44	47550.214	2.0	48762.700	1.0
8245.2701	20.00	-3.72	47550.214	2.0	48762.700	3.0
8245.6578	20.00	-1.43	47550.271	3.0	48762.700	2.0
8245.6578	20.00	-2.18	47550.271	3.0	48762.700	3.0
8246.3379	20.00	-1.11	47550.371	4.0	48762.700	3.0
8247.0045	12.00	-1.42	58477.760	2.0	59689.991	2.0
8249.3659	26.00	-3.22	53913.090	2.0	55124.974	3.0
8249.9241	18.00	-2.17	123653.238	4.0	124865.040	3.0
8249.9650	37.00	-.04	27835.020	0.0	29047.146	0.0
8250.6390	20.00	-2.08	45049.073	1.0	46260.770	2.0
8254.7742	22.00	-1.45	41822.990	0.0	43034.080	1.0
8257.6380	10.00	-2.05	166656.508	1.0	167867.178	0.0
8259.8143	20.00	-1.30	45050.419	2.0	46260.770	2.0
8259.8894	19.00	-.38	33178.120	2.5	34388.460	1.5
8260.6402	19.00	-1.33	33178.230	1.5	34388.460	1.5
8262.2103	15.01	-.04	130143.300	3.0	131353.300	2.0
8262.6883	19.00	-.63	33178.230	1.5	34388.160	.5
8262.8933	8.01	-4.48	254481.500	3.5	255691.400	3.5
8263.4396	29.01	-3.39	135863.930	1.0	137073.750	2.0
8264.1227	21.00	-3.35	36276.760	1.5	37486.480	1.5
8264.5326	6.00	-4.80	86498.550	1.0	87708.210	2.0
8265.1475	6.00	-2.59	86498.640	2.0	87708.210	2.0
8265.2842	29.01	-2.98	135834.900	4.0	137044.450	4.0
8266.9451	20.00	-.90	45049.073	1.0	46258.380	1.0
8267.1365	26.00	-3.25	50628.000	3.0	51837.279	3.0
8270.2072	28.01	-2.93	129271.720	3.5	130480.550	3.5
8270.5698	18.00	-.20	121270.682	2.0	122479.459	1.0
8272.2601	22.00	-4.84	40844.190	3.0	42052.720	3.0
8273.1775	20.00	-.15	45052.374	3.0	46260.770	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8274.2251	17.00	-.35	99681.887	1.5	100890.130	2.5
8275.2045	8.01	-3.74	254481.500	3.5	255689.600	2.5
8275.2456	26.00	-3.73	35767.546	4.0	36975.640	3.0
8275.7525	6.00	-3.10	87341.040	0.0	88549.060	1.0
8276.1567	20.00	-.82	45050.419	2.0	46258.380	1.0
8278.9736	28.01	-4.42	119913.330	4.5	121120.880	5.5
8279.5221	20.00	-1.75	47555.230	3.0	48762.700	2.0
8279.9884	18.00	-1.26	123653.238	4.0	124860.640	4.0
8279.9884	18.00	-.04	123653.238	4.0	124860.640	5.0
8280.3450	16.00	.14	77849.790	1.0	79057.140	2.0
8280.6193	18.00	-3.48	122601.290	1.0	123808.600	2.0
8281.1681	18.00	-2.41	124857.270	1.0	126064.500	2.0
8281.2367	14.00	-.82	61511.770	1.0	62718.990	0.0
8282.1971	18.00	-1.64	124857.420	2.0	126064.500	2.0
8284.1188	15.00	-2.20	78132.600	.5	79339.400	1.5
8284.1875	16.00	-1.37	80119.410	1.0	81326.200	1.0
8286.0413	28.01	-1.98	132846.530	3.5	134053.050	2.5
8288.5144	7.01	-2.80	209823.910	4.0	211030.070	3.0
8288.8512	18.00	-1.59	119023.699	4.0	120229.810	3.0
8289.5453	28.01	-4.37	130480.550	3.5	131686.560	4.5
8290.3015	15.00	-1.80	78133.500	2.5	79339.400	1.5
8291.1952	18.00	-.08	122609.760	1.0	123815.530	1.0
8293.3550	14.00	-1.96	61597.404	3.0	62802.860	3.0
8294.0844	6.00	-1.66	87708.210	2.0	88913.560	2.0
8294.4972	14.00	-.99	62545.100	1.0	63750.390	1.0
8294.9583	14.00	-1.54	57583.657	4.0	58788.880	4.0
8297.4849	16.00	.37	77852.284	2.0	79057.140	2.0
8298.0980	20.00	-.14	40474.241	1.0	41679.008	1.0
8298.4561	14.00	-2.94	61598.145	2.0	62802.860	3.0
8300.7298	7.00	-1.49	109856.520	1.5	111060.905	.5
8301.6604	28.01	-4.80	115108.090	2.5	116312.340	1.5
8303.0393	9.02	-2.40	443753.060	2.5	444957.110	1.5
8303.0394	24.00	-3.11	53782.770	4.0	54986.820	3.0
8303.5221	27.00	-2.59	45924.980	3.5	47128.960	2.5
8304.4877	10.00	-4.06	171057.900	1.0	172261.740	1.0
8305.0397	13.00	-.04	45344.164	1.5	46547.924	2.5
8308.8360	22.00	-3.53	39640.980	3.0	40844.190	3.0
8308.8843	14.00	-2.99	57583.657	4.0	58786.860	3.0
8309.1399	17.00	-4.65	99668.388	3.5	100871.554	3.5
8309.3194	16.00	-1.87	80123.060	0.0	81326.200	1.0
8310.4937	6.00	-.71	83747.390	2.0	84950.360	2.0
8310.8391	15.00	-4.32	65157.200	2.5	66360.120	1.5
8311.5231	17.00	-3.94	99668.388	3.5	100871.209	4.5
8311.8755	14.00	-1.22	49399.670	1.0	50602.440	0.0
8314.6407	6.00	-3.93	87633.750	2.0	88836.120	3.0
8314.9450	13.00	.11	45345.598	2.5	46547.924	3.5
8314.9450	13.00	-1.19	45345.598	2.5	46547.924	2.5
8315.1248	7.00	-4.29	112957.700	2.5	114160.000	2.5
8315.1248	7.00	-3.15	112957.700	2.5	114160.000	1.5
8317.3662	22.00	-3.60	27750.124	5.0	28952.100	4.0
8318.0997	14.00	-.44	62519.660	2.0	63721.530	2.0
8318.7919	10.01	-2.89	302307.750	2.5	303509.520	2.5
8319.6642	16.00	.51	77855.496	3.0	79057.140	2.0
8320.4951	55.00	-.07	25709.140	0.0	26910.992	0.0
8320.5227	10.00	-2.57	171060.220	2.0	172261.740	1.0
8320.7998	14.00	-4.44	62986.320	2.0	64187.800	3.0
8321.3954	7.00	-.37	110299.974	2.5	111501.368	1.5
8321.4785	26.00	-3.84	49502.530	5.0	50703.912	5.0
8321.5617	17.00	-4.28	82918.893	2.5	84120.263	2.5
8322.1851	29.01	-3.08	135135.600	1.0	136336.880	1.0
8324.4373	10.00	-2.21	169488.415	1.0	170689.370	0.0
8325.9972	10.01	-4.40	302307.750	2.5	303508.480	1.5
8326.4132	18.01	-3.16	210531.700	5.5	211732.370	4.5
8326.5519	28.01	-2.91	99418.610	3.5	100619.260	4.5
8326.9680	15.01	-3.31	104102.600	2.0	105303.190	1.0
8327.1761	18.01	-1.39	210531.700	5.5	211732.260	5.5
8327.5298	20.00	-.51	36547.688	0.0	37748.197	1.0
8328.0779	6.00	.41	85188.950	1.0	86389.380	2.0
8328.2860	28.01	-2.41	132729.480	2.5	133929.880	3.5
8328.8411	28.01	-2.70	121240.900	3.5	122441.220	4.5
8329.0978	10.00	-4.00	171787.000	3.0	172987.283	3.0
8329.0978	10.00	-4.00	171787.000	3.0	172987.283	3.0
8329.4656	6.00	-3.02	84984.970	3.0	86185.200	2.0
8329.6461	10.00	-4.42	171787.000	3.0	172987.204	2.0
8329.6461	10.00	-4.42	171787.000	3.0	172987.204	2.0
8329.6808	14.00	-.01	59506.359	2.0	60706.558	1.0
8329.8126	6.00	-1.53	87713.380	3.0	88913.560	2.0
8330.5762	29.01	-4.68	135834.900	4.0	137034.970	3.0
8332.6592	10.00	-1.92	171009.340	1.0	172209.110	1.0
8333.2843	6.00	-2.38	88766.980	1.0	89966.660	2.0
8334.5348	15.00	-1.43	75675.900	1.5	76875.400	1.5
8334.8128	18.00	-1.94	124865.040	3.0	126064.500	2.0
8334.9309	17.00	-1.09	97184.277	3.5	98383.720	3.5
8335.1603	12.00	-.52	59897.860	1.0	61097.270	1.0
8335.1603	12.00	-1.69	59897.860	2.0	61097.270	1.0
8335.1603	12.00	-.21	59897.860	1.0	61097.270	2.0
8335.1603	12.00	-.39	59897.860	0.0	61097.270	1.0
8335.1603	12.00	-.69	59897.860	2.0	61097.270	2.0
8335.1603	12.00	.23	59897.860	2.0	61097.270	3.0
8335.8553	18.00	.46	124865.190	2.0	126064.500	2.0
8336.7589	28.01	-2.41	129271.720	3.5	130470.900	4.5
8336.9466	17.00	-.05	97184.277	3.5	98383.430	4.5
8338.8450	25.00	.31	53261.420	3.5	54460.300	2.5
8339.1233	18.00	-2.83	122609.760	1.0	123808.600	2.0
8340.8626	18.01	-.59	210527.100	2.5	211725.690	3.5
8341.2106	23.00	-3.90	39127.230	1.5	40325.770	2.5
8341.4889	18.01	-1.74	210527.100	2.5	211725.600	2.5
8343.7794	14.00	.69	59506.359	2.0	60704.530	3.0
8343.7864	14.00	-4.33	62935.760	3.0	64133.930	4.0
8345.3187	6.00	.33	83752.410	1.0	84950.360	2.0
8348.6639	18.01	-1.62	210534.900	4.5	211732.370	4.5
8348.8730	10.00	-.54	171009.340	1.0	172206.780	2.0
8349.3472	18.00	-3.95	122635.128	2.0	123832.500	3.0
8349.4309	18.01	.37	210534.900	4.5	211732.260	5.5
8349.9887	10.00	-4.66	171791.700	2.0	172988.980	1.0
8349.9887	10.00	-4.66	171791.700	2.0	172988.980	1.0
8351.1047	14.00	-2.35	62936.810	4.0	64133.930	4.0
8351.1187	20.00	-.65	36554.749	1.0	37751.867	2.0
8351.9420	29.01	-1.13	145901.100	1.0	147098.100	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8355.9210	10.00	-3.00	171057.900	1.0	172254.330	0.0
8358.3661	23.00	-3.82	39241.340	2.5	40437.420	1.5
8358.5758	28.01	.43	129284.500	2.5	130480.550	3.5
8358.7505	26.00	-4.48	49227.160	3.0	50423.185	4.0
8359.2397	26.00	-.86	50423.185	4.0	51619.140	3.0
8359.3446	18.00	-3.26	124857.270	1.0	126053.210	2.0
8360.3932	18.00	-2.81	124857.420	2.0	126053.210	2.0
8360.8127	18.00	-.86	124868.770	3.0	126064.500	2.0
8361.8407	10.00	-3.63	171791.700	2.0	172987.283	3.0
8361.8407	10.00	-3.63	171791.700	2.0	172987.283	3.0
8362.3932	10.00	-5.00	171791.700	2.0	172987.204	2.0
8362.3932	10.00	-5.00	171791.700	2.0	172987.204	2.0
8363.2607	10.00	-4.66	171791.700	2.0	172987.080	2.0
8363.2607	10.00	-4.66	171791.700	2.0	172987.080	2.0
8363.9603	6.00	-.03	83740.060	0.0	84935.340	1.0
8364.1143	17.00	-2.47	100347.182	2.5	101542.440	1.5
8365.5701	10.00	-1.89	170557.050	1.0	171752.100	1.0
8365.9201	6.00	-1.82	87718.560	1.0	88913.560	2.0
8367.7407	14.00	-1.09	62519.660	2.0	63714.400	2.0
8367.9438	14.00	-.23	60962.105	2.0	62156.816	2.0
8368.2310	7.00	-3.71	112965.330	3.5	114160.000	2.5
8369.7723	28.01	-4.98	115081.360	4.5	116275.810	3.5
8371.8049	23.00	-3.72	38106.320	2.5	39300.480	2.5
8371.8049	6.00	.64	85203.640	2.0	86397.800	3.0
8373.4176	6.00	.64	83791.040	2.0	84984.970	3.0
8374.4277	26.00	-.52	49804.900	3.0	50998.686	2.0
8374.9609	28.01	-4.86	116468.400	1.5	117662.110	1.5
8376.7994	20.00	-.64	36554.749	1.0	37748.197	1.0
8376.9960	28.01	-4.48	97273.830	2.5	98467.250	3.5
8380.5774	6.00	.14	85169.610	0.0	86362.520	1.0
8381.1394	7.00	-3.01	112967.170	3.5	114160.000	2.5
8381.1394	12.00	-1.21	59342.510	1.0	60535.340	1.0
8381.1394	12.00	-2.39	59342.510	2.0	60535.340	1.0
8381.1394	12.00	-.91	59342.510	1.0	60535.340	2.0
8381.1394	12.00	-1.08	59342.510	0.0	60535.340	1.0
8381.1394	12.00	-1.38	59342.510	2.0	60535.340	2.0
8381.1394	12.00	-.46	59342.510	2.0	60535.340	3.0
8381.3994	16.00	.29	76719.800	1.0	77912.593	1.0
8381.5610	18.01	-.70	201351.550	2.5	202544.320	2.5
8382.7558	18.00	-3.71	123882.300	1.0	125074.900	2.0
8382.9737	20.00	.37	44989.830	2.0	46182.399	3.0
8383.1776	10.00	-.56	171009.340	1.0	172201.880	1.0
8384.1618	8.01	-.70	254895.200	1.5	256087.600	2.5
8384.1618	8.01	-1.03	254895.200	2.5	256087.600	2.5
8386.2717	15.00	-1.52	79402.000	2.5	80594.100	1.5
8388.9318	18.00	-3.70	122635.128	2.0	123826.850	2.0
8390.0723	6.00	-1.64	88333.980	0.0	89525.540	1.0
8390.8469	6.00	-2.37	88260.370	2.0	89451.820	1.0
8393.9467	10.00	-.94	171009.340	1.0	172200.350	0.0
8394.3697	25.00	-2.54	44978.980	1.5	46169.930	.5
8394.7150	14.00	-.82	59109.959	3.0	60300.860	2.0
8395.4975	18.01	-3.15	210534.900	4.5	211725.690	3.5
8396.0546	14.00	-2.75	57583.657	4.0	58774.368	3.0
8396.2732	10.00	-3.50	171798.300	1.0	172988.980	1.0
8396.2732	10.00	-3.50	171798.300	1.0	172988.980	1.0
8396.8937	7.00	-.90	111501.368	1.5	112691.960	.5
8397.6414	18.00	-2.24	123468.034	1.0	124658.520	2.0
8398.8125	28.01	-3.95	130480.550	3.5	131670.870	2.5
8401.2969	14.00	-1.29	59110.892	2.0	60300.860	2.0
8404.8850	28.01	-4.44	120002.860	3.5	121192.320	3.5
8405.6765	28.00	-2.90	50851.220	1.0	52040.568	2.0
8407.0549	17.00	-3.31	97184.277	3.5	98373.430	2.5
8407.2175	23.00	-4.27	36814.800	1.5	38003.930	1.5
8407.2882	18.01	-.03	202155.860	2.5	203344.980	1.5
8407.4296	6.00	.18	83761.260	3.0	84950.360	2.0
8407.7124	27.00	-2.28	44782.130	4.5	45971.190	3.5
8409.6927	10.00	-4.73	171798.300	1.0	172987.080	2.0
8409.6927	10.00	-4.73	171798.300	1.0	172987.080	2.0
8410.4002	28.01	-1.21	135400.670	3.5	136589.350	3.5
8410.8247	7.01	-2.15	210301.680	3.0	211490.300	2.0
8411.1078	21.00	-4.49	35745.570	2.5	36934.150	1.5
8411.5324	11.00	-.35	38540.180	.5	39728.700	1.5
8413.0897	8.01	-.99	254895.200	1.5	256083.500	1.5
8413.0897	8.01	-2.01	254895.200	2.5	256083.500	1.5
8414.0103	18.00	-1.34	124865.040	3.0	126053.210	2.0
8415.0018	6.00	-1.18	88260.370	2.0	89448.400	3.0
8415.0726	18.00	.28	124865.190	2.0	126053.210	2.0
8415.3347	18.00	-1.70	124603.957	2.0	125791.940	2.0
8415.5684	6.00	-.10	83747.390	2.0	84935.340	1.0
8415.7526	17.00	-.44	101045.386	1.5	102233.310	2.5
8416.8438	11.00	-.10	38540.930	1.5	39728.700	2.5
8416.8438	11.00	-1.05	38540.930	1.5	39728.700	1.5
8418.2045	14.00	-1.93	60010.458	1.0	61198.036	0.0
8422.0909	6.00	-4.12	88260.370	2.0	89447.400	2.0
8423.7231	29.01	-.40	148016.300	1.0	149203.100	0.0
8423.7940	24.00	-4.01	44068.720	3.0	45255.510	3.0
8425.3559	18.00	-2.55	123935.970	1.0	125122.540	0.0
8426.0660	19.00	.48	28999.270	.5	30185.740	1.5
8426.5631	6.00	.51	83798.570	4.0	84984.970	3.0
8429.1209	28.01	-3.92	129294.510	2.5	130480.550	3.5
8430.2581	10.00	-4.09	171803.100	2.0	172988.980	1.0
8430.2581	10.00	-4.09	171803.100	2.0	172988.980	1.0
8430.6278	17.00	-2.19	100347.182	2.5	101533.010	2.5
8430.9123	17.00	-2.32	100347.182	2.5	101532.970	1.5
8431.1824	29.01	-1.23	135733.600	3.0	136919.350	3.0
8431.2535	6.00	-.38	85203.640	2.0	86389.380	2.0
8431.6091	14.00	-.31	61617.170	4.0	62802.860	3.0
8434.6394	12.00	-4.84	54706.536	1.0	55891.800	1.0
8435.1946	28.00	-2.35	48953.344	1.0	50138.530	0.0
8440.0799	15.00	-1.14	76659.400	2.5	77843.900	2.5
8440.5073	18.00	-2.06	124868.770	3.0	126053.210	2.0
8442.3391	10.00	-4.52	171803.100	2.0	172987.283	3.0
8442.3391	10.00	-4.52	171803.100	2.0	172987.283	3.0
8442.9024	10.00	-3.15	171803.100	2.0	172987.204	2.0
8442.9024	10.00	-3.15	171803.100	2.0	172987.204	2.0
8443.1377	18.00	-1.01	119023.699	4.0	120207.770	4.0
8444.1219	17.00	.12	99681.887	1.5	100865.820	2.5
8444.2930	26.00	-4.23	44411.137	1.0	45595.046	0.0
8444.3572	15.00	-2.56	76659.400	2.5	77843.300	1.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8444.4286	28.01	-.29	132869.160	3.5	134053.050	2.5
8444.5712	11.00	-1.80	39298.350	.5	40482.220	.5
8445.7840	27.00	-2.88	43921.890	2.5	45105.590	3.5
8446.3478	18.00	.63	119023.699	4.0	120207.320	5.0
8447.4040	17.00	-.71	99681.887	1.5	100865.360	1.5
8448.0679	11.00	-1.50	39298.840	1.5	40482.220	.5
8450.6673	18.00	-1.69	123468.034	1.0	124651.050	1.0
8451.2816	6.00	-.26	83752.410	1.0	84935.340	1.0
8451.6245	18.00	-.67	121257.227	1.0	122440.109	2.0
8453.3540	28.01	.32	129297.910	3.5	130480.550	3.5
8453.5684	26.02	-3.08	199212.720	4.0	200395.330	5.0
8455.5704	20.00	.10	36575.119	2.0	37757.449	3.0
8455.7134	26.02	-4.69	198821.390	6.0	200003.700	7.0
8457.1440	26.00	-3.46	53160.530	3.0	54342.640	2.0
8459.2908	7.00	-2.00	110103.834	1.5	111285.644	1.5
8460.7943	17.01	-2.93	149952.400	1.0	151134.000	1.0
8461.2239	18.00	-1.69	125113.480	2.0	126295.020	3.0
8461.8112	16.00	-.19	76719.800	1.0	77901.258	0.0
8462.0834	18.00	-.44	125113.480	2.0	126294.900	3.0
8462.0834	9.02	-.70	465541.000	1.5	466722.420	2.5
8465.1644	28.01	-4.24	119909.720	1.5	121090.710	.5
8465.6662	28.01	-3.88	120144.170	2.5	121325.090	2.5
8467.6022	6.00	-.37	85188.950	1.0	86369.600	2.0
8467.9608	29.01	-4.13	137938.900	4.0	139119.500	3.0
8468.8933	17.00	.18	101052.840	2.5	102233.310	2.5
8469.3813	18.00	-1.11	122635.128	2.0	123815.530	1.0
8470.0198	26.00	-4.81	49242.872	3.0	50423.185	4.0
8470.8308	23.00	-2.70	38242.460	3.5	39422.660	2.5
8471.2471	22.00	-2.92	18825.890	1.0	20006.032	2.0
8471.7640	22.00	-1.30	41854.010	1.0	43034.080	1.0
8472.1158	7.00	-.05	111501.368	1.5	112681.389	2.5
8473.3940	18.00	-1.57	124603.957	2.0	125783.800	1.0
8476.0736	14.00	-4.08	62954.460	3.0	64133.930	4.0
8476.7924	17.00	-1.97	96494.722	4.5	97674.092	3.5
8477.2955	26.00	-4.85	54266.760	5.0	55446.060	4.0
8477.5974	14.00	-1.42	59636.667	1.0	60815.925	2.0
8478.6614	14.01	.22	123097.890	.5	124277.000	.5
8481.9921	7.00	-1.33	110322.721	1.5	111501.368	1.5
8483.2013	10.00	-.57	171032.790	3.0	172211.269	3.0
8484.2020	28.01	-4.23	130942.360	1.5	132120.700	.5
8484.3100	10.00	-1.87	171032.790	3.0	172211.115	2.0
8484.7780	6.00	-2.87	87735.300	1.0	88913.560	2.0
8486.4346	19.00	-.22	29007.710	1.5	30185.740	1.5
8487.4577	22.00	-1.76	28882.440	3.0	30060.328	4.0
8488.0197	24.00	-3.02	53640.740	3.0	54818.550	2.0
8488.5242	28.01	.73	130751.030	5.5	131928.770	4.5
8488.9567	28.01	-3.76	120002.860	3.5	121180.540	4.5
8489.6199	22.00	-4.62	18145.400	2.0	19322.988	2.0
8489.8867	7.00	-.48	110035.720	.5	111213.271	1.5
8490.0380	19.00	.73	29007.710	1.5	30185.240	2.5
8490.1102	10.01	-3.15	322348.010	4.5	323525.530	4.5
8490.3265	28.01	-4.14	93528.440	3.5	94705.930	3.5
8490.3265	10.01	-4.35	322348.010	4.5	323525.500	5.5
8490.4130	26.00	-2.93	43499.485	4.0	44676.963	4.0
8493.0096	17.00	-1.33	100347.182	2.5	101524.300	2.5
8493.8611	6.00	-1.86	88794.300	2.0	89971.300	3.0
8493.8756	17.00	-2.77	100347.182	2.5	101524.180	3.5
8494.4384	18.01	-3.88	187589.230	2.5	188766.150	2.5
8495.6801	20.00	-1.05	36575.119	2.0	37751.867	2.0
8495.9833	37.00	.29	27870.110	0.0	29047.137	0.0
8496.9654	19.00	-.94	31765.370	.5	32941.940	1.5
8497.1531	13.00	-1.93	46015.756	3.5	47192.300	2.5
8497.1531	13.00	-3.23	46015.756	2.5	47192.300	2.5
8497.9766	14.00	-1.25	62545.100	1.0	63721.530	2.0
8502.4575	6.00	-2.37	88790.850	1.0	89966.660	2.0
8503.2529	15.01	-2.09	127934.900	1.0	129110.600	1.0
8503.2530	28.01	-4.00	120002.860	3.5	121178.560	3.5
8503.8316	29.01	-3.42	137044.450	4.0	138220.070	4.0
8504.6564	18.00	-2.06	123468.034	1.0	124643.540	1.0
8505.4232	10.01	-1.77	322348.010	3.5	323523.410	2.5
8505.5680	20.01	.96	87671.930	1.5	88847.310	2.5
8505.9298	7.01	-2.41	210239.830	1.0	211415.160	2.0
8508.0146	14.00	-.75	60706.558	1.0	61881.600	1.0
8508.3188	15.00	-.78	75484.400	2.5	76659.400	2.5
8508.6446	20.00	.59	44989.830	2.0	46164.785	3.0
8509.4775	19.00	-1.25	31765.370	.5	32940.210	.5
8509.6658	20.00	-.32	44989.830	2.0	46164.644	2.0
8510.2960	26.00	-3.25	49804.900	3.0	50979.627	4.0
8510.9988	10.01	-1.83	302425.870	1.5	303600.500	2.5
8511.0785	18.00	-.03	122086.974	2.0	123261.593	2.0
8511.1437	24.00	-3.69	44080.900	2.0	45255.510	3.0
8511.3756	17.00	-1.44	100347.182	2.5	101521.760	3.5
8511.9409	13.01	.89	146276.500	3.0	147451.000	4.0
8511.9409	13.01	-.34	146276.500	3.0	147451.000	4.0
8511.9409	13.01	-.36	146276.500	3.0	147451.000	3.0
8512.5932	22.00	-1.08	41906.510	2.0	43080.920	2.0
8512.8831	28.01	-3.67	99418.610	3.5	100592.980	3.5
8513.7531	28.01	-2.65	118828.610	2.5	120002.860	3.5
8515.3485	26.00	-4.45	47960.973	4.0	49135.003	3.0
8515.6386	10.00	-1.50	171032.790	3.0	172206.780	2.0
8515.7836	14.00	-2.30	63488.010	3.0	64661.980	3.0
8515.8562	14.00	-1.56	62596.320	2.0	63770.280	1.0
8517.2346	13.00	-3.84	44919.654	.5	46093.424	1.5
8518.5410	20.01	1.12	87673.720	2.5	88847.310	3.5
8518.5410	20.01	-.18	87673.720	2.5	88847.310	2.5
8518.6861	6.00	-.20	85188.950	1.0	86362.520	1.0
8519.0491	29.01	-1.43	136765.380	4.0	137938.900	4.0
8519.0491	28.01	-.49	132729.480	2.5	133903.000	1.5
8519.3976	18.00	-3.60	122635.128	2.0	123808.600	2.0
8520.3343	18.00	-2.97	124603.957	2.0	125777.300	1.0
8520.6901	17.00	-1.71	101045.386	1.5	102218.680	2.5
8521.6706	26.00	-3.78	50045.900	2.0	51219.059	3.0
8522.1718	14.00	-.60	61423.230	3.0	62596.320	2.0
8522.2590	20.00	-1.83	36575.119	2.0	37748.197	1.0
8522.3171	14.00	-.85	63488.910	4.0	64661.980	3.0
8522.5278	13.00	-3.59	44921.275	1.5	46094.316	2.5
8522.8693	17.00	-1.39	101045.386	1.5	102218.380	1.5
8522.8984	28.01	.04	129297.910	3.5	130470.900	4.5
8525.1951	17.00	-1.85	96494.722	4.5	97667.396	3.5
8525.5877	14.00	-3.60	63225.500	2.0	64398.120	2.0
8525.8784	23.00	-3.50	39127.230	1.5	40299.810	.5
8526.1693	14.00	-3.20	63489.440	2.0	64661.980	3.0
8526.4092	10.00	-1.31	171032.790	3.0	172205.297	3.0
8526.4601	6.00	-2.92	88794.300	2.0	89966.800	3.0
8526.6056	22.00	-4.89	37976.780	2.0	39149.260	2.0
8526.7437	12.00	-1.35	58476.689	0.0	59649.150	1.0
8527.3329	10.00	-1.41	169516.990	1.0	170689.370	0.0
8527.4783	6.00	-1.46	88794.300	2.0	89966.660	2.0
8527.6238	10.00	.08	171032.790	3.0	172205.130	4.0
8527.6238	16.00	-.77	80494.660	2.0	81667.000	1.0
8528.5332	26.00	-4.20	45833.240	4.0	47005.455	5.0
8528.9334	24.00	-2.22	54032.630	2.0	55204.790	3.0
8529.0134	13.00	-4.54	44921.275	1.5	46093.424	1.5
8529.1517	12.00	-.87	58477.020	1.0	59649.150	1.0
8530.3161	18.00	-1.56	125039.600	1.0	126211.570	1.0
8530.6218	17.00	-.33	96494.722	4.5	97666.650	4.5
8532.5731	24.00	-3.94	36034.220	3.0	37205.880	3.0
8532.9736	18.00	-3.99	123903.295	2.0	125074.900	2.0
8533.8112	6.00	-1.10	84032.150	1.0	85203.640	2.0
8534.5398	12.00	-.65	58477.760	2.0	59649.150	1.0
8535.0498	14.00	-1.99	63490.660	3.0	64661.980	3.0
8535.4870	28.01	-.69	130757.510	4.5	131928.770	4.5
8536.5803	6.00	-2.34	88260.370	2.0	89431.480	2.0
8537.3093	6.00	-1.10	87789.630	1.0	88960.640	0.0
8538.1842	18.00	-1.80	125353.310	1.0	126524.200	0.0
8538.5489	28.01	-1.40	118874.110	3.5	120044.950	4.5
8539.3511	9.02	-4.72	442694.580	1.5	443865.310	1.5
8540.1535	21.00	-2.40	14926.240	2.5	16096.860	1.5
8542.1967	16.00	-1.50	80494.660	2.0	81665.000	2.0
8542.1967	16.00	-.60	80494.660	3.0	81665.000	2.0
8543.7298	15.01	-2.40	104054.700	1.0	105224.830	0.0
8544.1679	29.01	-3.62	137649.100	2.0	138819.170	3.0
8544.5330	18.01	-2.10	203344.980	1.5	204515.000	.5
8546.0743	18.00	-4.10	123385.130	0.0	124554.939	1.0
8546.2715	16.00	.51	76719.800	1.0	77889.582	2.0
8546.8706	13.01	-.24	144939.100	1.0	146108.800	1.0
8546.8998	18.00	.58	122036.134	4.0	123205.830	3.0
8548.0398	17.00	.51	101052.840	2.5	102222.380	3.5
8548.8658	18.00	.20	121270.682	2.0	122440.109	2.0
8549.7578	18.00	-1.71	123903.295	2.0	125072.600	1.0
8549.7944	14.00	-.14	62545.100	1.0	63714.400	2.0
8553.4519	28.01	-4.48	133445.750	4.5	134614.550	5.5
8554.0374	25.00	.17	53291.580	2.5	54460.300	2.5
8557.6252	14.00	-3.18	62318.700	0.0	63486.930	1.0
8559.1932	18.00	-.96	122086.974	2.0	123254.990	1.0
8561.0549	7.00	-1.50	110103.834	1.5	111271.596	.5
8561.9493	16.00	-1.50	80494.660	3.0	81662.300	3.0
8561.9493	16.00	-3.04	80494.660	2.0	81662.300	3.0
8561.9493	16.00	-.43	80494.660	4.0	81662.300	3.0
8562.2867	26.00	-4.34	44166.240	3.0	45333.834	2.0
8562.3967	10.00	-3.35	171043.690	2.0	172211.269	3.0
8563.5262	10.00	-.66	171043.690	2.0	172211.115	2.0
8564.2965	14.00	-.83	62966.610	5.0	64133.930	4.0
8564.8101	9.02	-1.15	465541.000	.5	466708.250	1.5
8564.8101	9.02	-.87	465541.000	1.5	466708.250	1.5
8565.4705	10.01	-2.61	322348.010	3.5	323515.170	3.5
8565.4705	10.01	-2.91	322348.010	4.5	323515.170	3.5
8568.1867	26.02	-4.01	198717.600	4.0	199884.390	5.0
8568.2601	10.00	-1.25	171822.200	1.0	172988.980	1.0
8568.5538	9.00	-.80	128606.090	2.5	129772.830	2.5
8568.6493	14.00	-.84	49399.670	1.0	50566.397	1.0
8569.1194	37.00	-.68	28687.127	0.0	29854.108	0.0
8570.0964	18.00	-4.63	123873.070	0.0	125039.600	1.0
8571.1250	26.00	-4.54	50901.060	2.0	52067.450	2.0
8572.8155	28.01	-3.88	98276.700	4.5	99442.860	4.5
8574.2861	6.00	.23	85203.640	2.0	86369.600	2.0
8574.9332	26.00	-3.50	32873.623	4.0	34039.495	4.0
8575.1318	26.00	-2.86	53393.715	4.0	54559.560	3.0
8575.1685	17.00	-.86	101052.840	2.5	102218.680	2.5
8575.9041	6.00	-3.13	87708.210	2.0	88873.950	2.0
8576.7871	14.00	-1.26	62718.990	0.0	63884.610	1.0
8577.3757	17.00	-1.35	101052.840	2.5	102218.380	1.5
8577.7437	10.01	-2.62	322348.010	3.5	323513.500	3.5
8577.7437	10.01	-1.63	322348.010	4.5	323513.500	3.5
8578.1117	14.00	-3.41	62968.490	4.0	64133.930	4.0
8578.2590	10.00	-1.60	171043.690	2.0	172209.110	1.0
8580.0995	28.01	-3.71	138841.000	3.5	140006.170	4.5
8581.2042	10.01	-3.58	322348.010	3.5	323513.030	4.5
8581.2042	10.01	-2.60	322348.010	4.5	323513.030	4.5
8581.3221	10.00	-1.95	171822.200	1.0	172987.204	2.0
8582.2355	10.00	-.22	171822.200	1.0	172987.080	2.0
8584.6675	28.01	-4.94	122270.050	3.5	123434.600	4.5
8585.7734	37.00	.27	28689.390	0.0	29854.107	0.0
8586.5919	18.00	-.01	121165.431	3.0	122329.720	3.0
8586.9533	6.00	-2.05	86469.510	3.0	87633.750	2.0
8589.3142	14.00	-.81	62596.320	2.0	63760.240	3.0
8592.3409	28.01	-.54	130765.260	3.5	131928.770	4.5
8593.0720	26.00	-4.99	45509.112	1.0	46672.523	0.0
8594.0028	28.00	-3.97	50142.800	3.0	51306.085	3.0
8594.4831	18.00	-1.93	125039.600	1.0	126202.820	0.0
8595.1628	7.00	-.18	110035.720	.5	111198.848	.5
8595.4436	10.00	-2.45	171043.690	2.0	172206.780	2.0
8595.4436	17.00	-2.44	97530.130	2.5	98693.220	2.5
8596.5523	22.00	-3.82	27665.570	1.0	28828.510	2.0
8596.9737	17.00	-1.14	97530.130	2.5	98693.013	3.5
8597.6613	25.00	-4.83	55405.140	2.5	56567.930	1.5
8597.8831	29.01	-1.48	135910.990	2.0	137073.750	2.0
8598.2528	15.01	-1.44	101636.490	1.0	102799.200	1.0
8599.5842	12.00	-.54	59897.860	1.0	61060.390	2.0
8599.5842	12.00	-1.01	59897.860	2.0	61060.390	2.0
8599.8800	26.00	-4.87	52067.450	2.0	53229.940	1.0
8601.1378	22.00	-.97	41985.830	3.0	43148.150	3.0
8601.9519	26.00	-2.40	53328.870	4.0	54491.080	3.0
8602.0259	14.00	-1.69	63762.200	3.0	64924.400	3.0
8602.4701	26.00	-.94	50045.900	2.0	51208.040	1.0
8603.2844	9.00	-1.28	128219.830	1.5	129381.860	2.5
8603.3585	6.00	-.34	85169.610	0.0	86331.630	1.0
8604.2469	12.00	-1.53	59935.370	2.0	61097.270	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8604.2469	12.00	-.62	59935.370	2.0	61097.270	1.0
8604.2469	12.00	-.50	59935.370	3.0	61097.270	2.0
8604.2469	12.00	-2.21	59935.370	3.0	61097.270	2.0
8604.2469	12.00	-2.90	59935.370	2.0	61097.270	3.0
8604.2469	12.00	-1.57	59935.370	3.0	61097.270	3.0
8604.2469	12.00	-1.76	59935.370	3.0	61097.270	3.0
8604.2469	12.00	-.29	59935.370	4.0	61097.270	3.0
8604.8394	28.01	-3.47	100592.980	3.5	101754.800	2.5
8606.4172	10.00	-.06	171043.690	2.0	172205.297	3.0
8607.2101	9.00	-4.25	128220.360	3.5	129381.860	2.5
8607.3584	14.00	-1.42	63762.920	4.0	64924.400	3.0
8607.5881	17.00	-4.23	98372.970	1.5	99534.419	.5
8610.9169	24.00	-3.30	48661.590	3.0	49822.590	2.0
8611.1914	22.00	-4.74	37538.804	2.0	38699.767	2.0
8611.5845	9.00	-1.98	128611.920	1.5	129772.830	2.5
8613.2909	10.00	-1.95	171828.300	2.0	172988.980	1.0
8613.5878	12.00	-2.33	59936.630	1.0	61097.270	2.0
8614.1073	6.00	-.90	87713.380	3.0	88873.950	2.0
8614.2558	6.00	-2.45	87633.750	2.0	88794.300	2.0
8617.0921	14.00	-.31	59221.110	0.0	60381.278	1.0
8618.3402	15.01	-2.18	127950.600	2.0	129110.600	1.0
8619.6033	6.00	-1.67	87753.730	2.0	88913.560	2.0
8620.6439	29.01	-2.99	136754.110	2.0	137913.800	1.0
8622.2796	14.00	-3.63	63488.010	3.0	64647.480	3.0
8623.3952	6.00	-.07	83791.040	2.0	84950.360	2.0
8624.1391	28.01	-4.23	52205.950	3.5	53365.170	4.5
8624.2879	13.01	-.66	146185.000	2.0	147344.200	3.0
8624.2879	13.01	-1.57	146185.000	3.0	147344.200	3.0
8625.9027	10.00	-.03	171828.300	2.0	172987.283	3.0
8626.4906	10.00	-1.00	171828.300	2.0	172987.204	2.0
8626.6693	6.00	-2.30	85203.640	2.0	86362.520	1.0
8627.4138	10.00	-1.17	171828.300	2.0	172987.080	2.0
8627.4883	14.00	-2.20	63488.010	3.0	64646.780	2.0
8628.9776	14.00	-3.11	63488.910	4.0	64647.480	3.0
8631.1380	22.00	-4.11	40556.070	1.0	41714.350	2.0
8631.1380	10.00	-.95	171830.700	1.0	172988.980	1.0
8631.8087	10.00	-2.12	171043.690	2.0	172201.880	1.0
8632.6286	28.01	-1.44	129503.240	4.5	130661.320	5.5
8632.9268	14.00	-3.14	63489.440	2.0	64647.480	3.0
8633.3741	10.00	-4.29	171831.000	0.0	172988.980	1.0
8633.3741	10.00	-4.29	171831.000	0.0	172988.980	1.0
8633.5381	28.00	-2.16	42954.234	2.0	44112.192	1.0
8633.5456	14.00	.54	61511.770	1.0	62669.727	2.0
8635.6486	22.00	-1.73	28828.510	2.0	29986.185	3.0
8636.6185	26.00	-1.52	50534.435	3.0	51691.980	3.0
8638.1483	14.00	-2.73	63489.440	2.0	64646.780	2.0
8638.4469	18.00	-4.33	123882.300	1.0	125039.600	1.0
8639.9400	6.00	-2.36	87633.750	2.0	88790.850	1.0
8642.0312	14.00	-2.03	63490.660	3.0	64647.480	3.0
8642.1807	6.00	-1.44	84032.150	1.0	85188.950	1.0
8642.3898	14.00	-.40	60381.278	1.0	61538.050	0.0
8644.0487	28.01	-4.95	130480.550	3.5	131637.100	3.5
8644.3851	18.00	-1.70	123903.295	2.0	125059.800	2.0
8644.3926	10.00	-.26	171830.700	1.0	172987.204	2.0
8644.5719	24.00	-5.00	44068.720	3.0	45225.200	2.0
8646.3738	28.00	-3.62	44262.619	2.0	45418.858	2.0
8646.5158	26.00	-4.49	53229.940	1.0	54386.160	1.0
8647.2637	14.00	-3.10	63490.660	3.0	64646.780	2.0
8648.2362	21.00	-3.29	36330.490	2.5	37486.480	1.5
8651.0800	28.01	-.54	132912.150	2.5	134067.760	1.5
8651.0800	28.01	-.51	136122.610	2.5	137278.220	1.5
8651.3046	26.01	-3.80	86416.220	3.5	87571.800	2.5
8652.7273	6.00	-.91	87718.560	1.0	88873.950	2.0
8653.2515	26.02	-4.70	198848.380	7.0	200003.700	7.0
8655.2743	28.01	-3.97	121692.550	4.5	122847.600	3.5
8655.7614	14.00	-3.92	61647.875	2.0	62802.860	3.0
8656.6983	21.00	-1.15	32751.540	3.5	33906.400	4.5
8659.5476	18.01	-2.36	189437.690	.5	190592.170	1.5
8661.9335	26.00	-3.86	54224.680	1.0	55378.842	2.0
8662.4739	28.01	-2.53	135435.260	4.5	136589.350	3.5
8662.6241	14.00	-2.01	62596.320	2.0	63750.390	1.0
8662.7667	17.00	.41	99711.309	.5	100865.360	1.5
8665.3271	28.01	-4.31	137735.220	6.5	138888.930	6.5
8667.4307	21.00	-4.33	38601.500	1.5	39754.930	2.5
8669.0465	10.00	-.38	171057.900	1.0	172211.115	2.0
8669.1593	28.01	-1.38	135746.130	1.5	136899.330	1.5
8670.7834	18.00	-.52	123505.536	2.0	124658.520	2.0
8672.6940	22.00	-2.59	43080.920	2.0	44233.650	3.0
8678.4910	28.01	-.36	118892.990	5.5	120044.950	4.5
8679.9227	18.00	-2.47	125059.800	2.0	126211.570	1.0
8682.4330	26.00	-3.31	54224.680	1.0	55376.117	1.0
8683.0588	7.00	-.74	110350.014	.5	111501.368	1.5
8684.1450	10.00	-.73	171057.900	1.0	172209.110	1.0
8684.8994	14.00	-2.80	63773.290	3.0	64924.400	3.0
8685.0503	6.00	-4.39	86482.660	3.0	87633.750	2.0
8685.2012	21.00	-4.72	38570.640	.5	39721.710	1.5
8685.3597	10.00	-.18	171060.220	2.0	172211.269	3.0
8685.9558	6.00	-2.72	86482.780	2.0	87633.750	2.0
8686.5219	10.00	-1.76	171060.220	2.0	172211.115	2.0
8686.7105	24.00	-3.06	48661.590	3.0	49812.460	3.0
8686.9370	11.00	-1.60	39200.930	2.5	40351.770	2.5
8686.9370	11.00	-.30	39200.930	2.5	40351.770	3.5
8686.9370	11.00	-.45	39200.930	1.5	40351.770	2.5
8687.0879	20.00	-.55	47036.225	1.0	48187.045	2.0
8687.0879	14.00	-4.04	63773.580	2.0	64924.400	3.0
8688.7490	15.00	-2.94	78069.000	1.5	79219.600	.5
8691.5666	26.00	-4.29	44183.607	2.0	45333.834	2.0
8694.9456	21.00	-1.32	32696.840	2.5	33846.620	3.5
8697.9943	14.00	-1.24	63514.533	4.0	64663.910	4.0
8699.9395	7.01	-1.39	210266.040	2.0	211415.160	2.0
8700.9769	20.00	-3.90	47040.007	2.0	48188.990	3.0
8701.2268	29.01	-2.08	133594.050	3.0	134743.000	4.0
8701.3783	25.00	-.01	53311.370	1.5	54460.300	2.5
8701.6813	10.00	-2.05	171060.220	2.0	172209.110	1.0
8701.7569	10.00	-1.45	171057.900	1.0	172206.780	2.0
8702.1357	18.00	-1.75	124137.450	2.0	125286.280	1.0
8702.2114	20.00	.32	44276.538	0.0	45425.358	1.0
8704.1814	23.00	-2.91	38242.460	3.5	39391.020	4.5
8704.9393	14.00	-.62	61447.860	2.0	62596.320	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8707.1152	26.00	-3.83	46888.494	2.0	48036.667	2.0
8709.1632	26.00	-3.72	47960.973	4.0	49108.876	4.0
8709.8461	37.00	.06	28687.127	0.0	29835.253	0.0
8711.5386	14.00	-.47	62874.480	2.0	64022.070	3.0
8713.3153	26.00	-3.11	50456.790	3.0	51604.146	3.0
8715.5030	20.00	-.38	47040.007	2.0	48187.075	3.0
8715.7309	20.00	-1.28	47040.007	2.0	48187.045	2.0
8716.6580	28.00	-2.05	51124.800	3.0	52271.716	2.0
8716.8556	6.00	-1.24	83838.080	2.0	84984.970	3.0
8717.3877	14.00	-1.47	62874.480	2.0	64021.300	2.0
8719.3645	10.00	-.50	171060.220	2.0	172206.780	2.0
8719.4405	28.01	-3.66	121294.670	4.5	122441.220	4.5
8720.5054	26.00	-3.73	53733.310	3.0	54879.720	2.0
8721.3422	8.01	-.85	274920.000	1.5	276066.300	1.5
8721.3422	8.01	-1.80	274920.000	2.5	276066.300	1.5
8721.3422	8.01	-1.81	274920.000	1.5	276066.300	2.5
8721.3422	8.01	-.66	274920.000	2.5	276066.300	2.5
8721.8748	26.00	-4.64	53155.130	4.0	54301.360	4.0
8721.8748	26.00	-3.12	53155.130	4.0	54301.360	4.0
8722.8641	18.00	-1.75	122686.400	2.0	123832.500	3.0
8723.7775	28.01	-3.03	137742.950	5.5	138888.930	6.5
8724.0820	9.00	-.90	128338.720	.5	129484.660	1.5
8727.3264	18.00	-1.52	123505.536	2.0	124651.050	1.0
8727.4330	13.01	-.56	145128.900	3.0	146274.400	2.0
8727.8902	28.01	-4.83	115000.250	3.5	116145.690	3.5
8728.1036	26.00	-2.95	49558.500	4.0	50703.912	5.0
8728.5150	18.00	-3.98	122790.612	0.0	123935.970	1.0
8729.7193	24.00	-4.65	48507.560	1.0	49652.760	2.0
8730.6571	10.00	-1.59	171060.220	2.0	172205.297	3.0
8731.0916	18.00	-1.58	125150.000	3.0	126295.020	3.0
8731.3204	23.00	-3.28	37075.640	4.5	38220.630	5.5
8731.8542	14.00	-2.17	62874.480	2.0	64019.400	3.0
8732.0068	18.00	-1.79	125150.000	3.0	126294.900	3.0
8732.0068	18.00	-.29	125150.000	3.0	126294.900	4.0
8732.1593	28.01	-1.54	135444.470	3.5	136589.350	3.5
8732.9221	28.01	-2.20	121692.550	4.5	122837.330	4.5
8733.1510	9.00	-1.69	128514.750	3.5	129659.500	3.5
8733.3035	14.00	-.86	61305.670	1.0	62450.400	1.0
8733.9902	28.01	-1.75	121125.410	4.5	122270.050	3.5
8735.9745	14.00	.31	61841.940	2.0	62986.320	2.0
8736.5089	21.00	-2.46	36572.800	2.5	37717.110	3.5
8736.5853	24.00	-4.04	44080.900	2.0	45225.200	2.0
8736.5853	6.00	-1.14	83791.040	2.0	84935.340	1.0
8738.7236	14.00	-.53	61841.940	2.0	62985.960	1.0
8739.0292	10.00	-4.44	171057.900	1.0	172201.880	1.0
8740.2516	26.00	-3.85	50475.320	4.0	51619.140	3.0
8740.7941	20.00	-4.76	47045.241	3.0	48188.990	3.0
8741.0922	22.00	-3.59	39526.890	2.0	40670.600	2.0
8741.7801	10.00	-3.27	171686.620	2.0	172830.240	3.0
8742.0858	10.00	-3.47	171686.620	1.0	172830.200	2.0
8742.0858	10.00	-4.42	171686.620	2.0	172830.200	2.0
8743.4544	28.00	-2.80	42790.027	2.0	43933.428	2.0
8746.7668	14.00	-1.03	58774.368	3.0	59917.336	2.0
8748.9714	6.00	-.39	85188.950	1.0	86331.630	1.0
8748.9714	10.00	-2.71	171686.620	1.0	172829.300	1.0
8748.9714	10.00	-2.38	171686.620	2.0	172829.300	1.0
8749.2010	22.00	-4.04	38159.710	3.0	39302.360	4.0
8749.7370	23.00	-3.17	38106.320	2.5	39248.900	1.5
8750.7327	10.00	-1.66	171057.900	1.0	172200.350	0.0
8751.1157	29.01	-.50	145955.700	1.0	147098.100	0.0
8751.1847	18.00	-1.29	124649.549	3.0	125791.940	2.0
8751.8818	24.00	-4.75	42908.570	4.0	44050.870	4.0
8752.2649	29.01	-4.07	137034.970	3.0	138177.220	2.0
8752.2649	22.00	-3.40	27740.190	2.0	28882.440	3.0
8753.0312	22.00	-3.21	45832.500	5.0	46974.650	5.0
8753.4910	18.00	-4.11	123508.960	0.0	124651.050	1.0
8754.7942	21.00	-4.04	38657.930	2.5	39799.850	3.5
8755.0625	14.00	-2.04	58775.451	2.0	59917.336	2.0
8755.1239	20.00	-.22	47045.241	3.0	48187.118	4.0
8755.4536	20.00	-1.28	47045.241	3.0	48187.075	3.0
8755.6836	20.00	-2.82	47045.241	3.0	48187.045	2.0
8756.7879	10.00	-1.16	171060.220	2.0	172201.880	1.0
8759.7036	10.00	-3.10	171686.620	1.0	172827.900	2.0
8759.7036	10.00	-2.15	171686.620	2.0	172827.900	2.0
8761.1621	14.00	-2.10	63783.310	4.0	64924.400	3.0
8762.3140	28.01	-4.21	119909.720	1.5	121050.660	2.5
8762.6212	28.01	-.79	132912.150	2.5	134053.050	2.5
8762.9362	20.00	-4.65	39333.382	0.0	40474.241	1.0
8763.1589	26.00	-4.60	53160.530	3.0	54301.360	4.0
8763.1589	26.00	-3.28	53160.530	3.0	54301.360	4.0
8763.2357	9.02	-2.60	443865.310	1.5	445006.130	2.5
8763.6198	10.00	-.43	168586.860	0.0	169727.630	1.0
8763.9271	14.00	-.35	62349.930	2.0	63490.660	3.0
8764.0040	18.01	-.95	210584.880	1.5	211725.600	2.5
8764.5417	18.00	-1.88	122686.200	1.0	123826.850	2.0
8764.9260	29.01	-1.46	136773.200	1.0	137913.800	1.0
8765.9250	6.00	-2.48	87773.090	2.0	88913.560	2.0
8766.0788	18.00	-3.67	122686.400	2.0	123826.850	2.0
8766.4631	8.01	-.79	274739.200	2.5	275879.600	2.5
8766.4631	8.01	-2.10	274739.200	2.5	275879.600	3.5
8768.5391	10.00	-3.34	171690.110	2.0	172830.240	3.0
8768.5391	10.00	-2.04	171690.110	3.0	172830.240	3.0
8768.8468	10.00	-2.19	171690.110	2.0	172830.200	2.0
8768.8468	10.00	-3.33	171690.110	3.0	172830.200	2.0
8769.3083	10.00	-1.62	172469.500	2.0	173609.530	1.0
8770.6931	11.00	-2.66	39208.980	2.5	40348.830	2.5
8770.6931	11.00	-1.36	39208.980	3.5	40348.830	2.5
8770.6931	11.00	-1.52	39208.980	2.5	40348.830	1.5
8771.1548	28.01	-1.74	132927.970	1.5	134067.760	1.5
8773.3100	14.00	-4.56	62349.930	2.0	63489.440	2.0
8773.6180	22.00	-1.01	42092.520	4.0	43231.990	4.0
8773.6180	21.00	-1.51	32659.210	1.5	33798.680	2.5
8775.3817	8.00	-1.61	107595.159	2.0	108734.400	1.0
8775.3817	8.00	-2.35	107595.159	2.0	108734.400	2.0
8775.3817	8.00	-3.89	107595.159	2.0	108734.400	3.0
8775.3817	8.00	-1.44	107595.159	3.0	108734.400	2.0
8775.3817	8.00	-2.35	107595.159	3.0	108734.400	3.0
8775.3817	8.00	-1.28	107595.159	4.0	108734.400	3.0
8775.5434	10.00	-1.31	171688.000	4.0	172827.220	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8775.7745	10.00	-1.75	171690.110	2.0	172829.300	1.0
8776.1597	19.00	-.95	32598.300	2.5	33737.440	1.5
8776.1597	10.00	-2.85	171688.000	4.0	172827.140	4.0
8776.1597	10.00	-1.21	171688.000	5.0	172827.140	4.0
8776.9301	10.00	-3.90	172469.500	2.0	173608.540	3.0
8776.9301	10.00	-2.73	172469.500	3.0	173608.540	3.0
8776.9301	10.00	-2.60	172469.500	3.0	173608.540	3.0
8776.9301	10.00	-1.29	172469.500	4.0	173608.540	3.0
8777.0843	10.00	-2.75	172469.500	2.0	173608.520	2.0
8777.0843	10.00	-1.42	172469.500	3.0	173608.520	2.0
8777.0843	10.00	-3.91	172469.500	3.0	173608.520	2.0
8777.1614	19.00	-1.90	32598.430	1.5	33737.440	1.5
8777.3925	14.00	-2.69	63225.500	2.0	64364.480	2.0
8777.4696	18.00	-2.53	125072.600	1.0	126211.570	1.0
8777.4696	10.00	-2.58	172469.500	2.0	173608.470	2.0
8777.4696	10.00	-1.43	172469.500	3.0	173608.470	2.0
8777.7779	18.00	-3.23	123935.970	1.0	125074.900	2.0
8777.8627	20.00	-4.17	39335.322	1.0	40474.241	1.0
8778.0091	29.01	-2.22	138003.200	2.0	139142.100	2.0
8778.1632	10.00	-2.80	171691.360	3.0	172830.240	3.0
8778.1632	10.00	-1.36	171691.360	4.0	172830.240	3.0
8778.4715	10.00	-1.49	171691.360	3.0	172830.200	2.0
8778.5486	10.00	-2.22	171686.620	1.0	172825.450	1.0
8778.5486	10.00	-1.78	171686.620	2.0	172825.450	1.0
8778.8416	18.00	-2.96	122635.128	2.0	123773.920	3.0
8779.9364	6.00	-3.47	87735.300	1.0	88873.950	2.0
8780.0520	26.00	-3.84	43922.652	3.0	45061.287	3.0
8780.2294	28.00	-2.67	49327.560	3.0	50466.172	4.0
8783.3768	26.00	-1.36	50698.666	2.0	51836.870	1.0
8783.6391	19.00	-1.20	32598.430	1.5	33736.600	.5
8784.3337	14.00	-.22	62349.930	2.0	63488.010	3.0
8784.4109	14.01	.53	123138.930	1.5	124277.000	.5
8784.4881	10.00	-4.79	172212.710	1.0	173350.770	1.0
8784.9204	18.00	.21	123505.536	2.0	124643.540	1.0
8785.3373	10.00	-2.10	171686.620	1.0	172824.570	0.0
8786.4954	18.00	-.10	121191.920	2.0	122329.720	3.0
8786.5727	26.02	-4.19	199300.150	2.0	200437.940	2.0
8786.5727	10.00	-2.68	171690.110	2.0	172827.900	2.0
8786.5727	10.00	-1.53	171690.110	3.0	172827.900	2.0
8789.1218	6.00	-1.36	84032.150	1.0	85169.610	0.0
8789.1991	9.02	-2.76	443868.680	2.5	445006.130	2.5
8789.5082	14.00	-1.27	60704.530	3.0	61841.940	2.0
8791.8272	10.00	-3.57	171690.110	2.0	172827.220	3.0
8791.8272	10.00	-4.86	171690.110	3.0	172827.220	3.0
8792.4457	10.00	-3.44	171690.110	3.0	172827.140	4.0
8794.2246	18.00	-1.02	122695.700	4.0	123832.500	3.0
8794.5340	10.00	-4.59	172212.710	2.0	173349.470	2.0
8795.2305	18.00	-2.97	125074.900	2.0	126211.570	1.0
8795.5400	18.00	-2.16	123935.970	1.0	125072.600	1.0
8797.3975	6.00	-2.67	87777.170	3.0	88913.560	2.0
8797.7227	8.00	-2.04	107595.152	1.0	108731.500	1.0
8797.7227	8.00	-2.89	107595.152	1.0	108731.500	2.0
8797.7227	8.00	-1.74	107595.152	2.0	108731.500	1.0
8797.7227	8.00	-1.89	107595.152	2.0	108731.500	2.0
8797.7227	8.00	-2.89	107595.152	2.0	108731.500	3.0
8797.7227	8.00	-1.51	107595.152	3.0	108731.500	2.0
8797.7227	8.00	-1.87	107595.152	3.0	108731.500	3.0
8797.7227	8.00	-3.19	107595.152	3.0	108731.500	4.0
8797.7227	8.00	-1.31	107595.152	4.0	108731.500	3.0
8797.7227	8.00	-2.01	107595.152	4.0	108731.500	4.0
8797.7227	8.00	-1.15	107595.152	5.0	108731.500	4.0
8797.7227	8.00	-2.04	107595.152	1.0	108731.500	0.0
8798.0556	18.00	-2.33	123903.295	2.0	125039.600	1.0
8798.2492	24.00	-3.91	44088.920	1.0	45225.200	2.0
8799.3333	6.00	-.25	83848.830	3.0	84984.970	3.0
8800.9601	10.00	-4.48	172213.580	4.0	173349.510	3.0
8801.5024	10.00	-2.26	171691.360	3.0	172827.220	3.0
8801.5024	10.00	-3.69	171691.360	4.0	172827.220	3.0
8802.1224	10.00	-3.70	171691.360	3.0	172827.140	4.0
8802.1224	10.00	-2.15	171691.360	4.0	172827.140	4.0
8804.8201	12.00	-2.27	59881.168	3.0	61016.600	2.0
8804.8201	12.00	-.94	59881.168	3.0	61016.600	3.0
8804.8201	12.00	-1.14	59881.168	3.0	61016.600	3.0
8804.8201	12.00	.33	59881.168	3.0	61016.600	4.0
8804.9210	12.00	-.90	59881.181	2.0	61016.600	2.0
8804.9210	12.00	-.24	59881.181	2.0	61016.600	3.0
8804.9210	12.00	-.37	59881.181	2.0	61016.600	3.0
8805.0373	12.00	0.00	59881.196	1.0	61016.600	2.0
8805.2079	14.00	-.76	60706.558	1.0	61841.940	2.0
8805.5336	10.00	-2.89	171690.110	2.0	172825.450	1.0
8806.6195	6.00	-4.79	86498.550	1.0	87633.750	2.0
8807.3179	6.00	-3.36	86498.640	2.0	87633.750	2.0
8808.1714	17.00	-2.69	100865.360	1.5	102000.360	1.5
8808.4818	29.01	-1.99	135664.340	1.0	136799.300	2.0
8808.4818	28.01	-.79	118774.760	.5	119909.720	1.5
8811.0437	9.02	-3.25	442636.270	3.5	443770.900	3.5
8811.4320	18.00	-2.42	123508.960	0.0	124643.540	1.0
8811.4553	12.00	-2.24	59400.763	2.0	60535.340	2.0
8811.4553	12.00	-1.33	59400.763	2.0	60535.340	1.0
8811.4553	12.00	-1.11	59400.763	3.0	60535.340	2.0
8811.4553	12.00	-4.44	59400.763	3.0	60535.340	2.0
8811.4553	12.00	-3.61	59400.763	2.0	60535.340	3.0
8811.4553	12.00	-2.28	59400.763	3.0	60535.340	3.0
8811.4553	12.00	-2.48	59400.763	3.0	60535.340	3.0
8811.4553	12.00	-1.00	59400.763	4.0	60535.340	3.0
8811.5563	17.00	-1.63	98383.430	4.5	99517.994	4.5
8811.7427	17.00	-2.46	100865.820	2.5	102000.360	1.5
8812.8302	15.00	-1.14	76709.500	3.5	77843.900	2.5
8813.4517	28.01	-4.32	106007.890	2.5	107142.210	1.5
8813.8092	17.00	-4.43	98383.720	3.5	99517.994	4.5
8814.2288	10.01	-2.77	301801.090	3.5	302935.310	4.5
8814.6174	16.00	-1.23	80493.630	4.0	81627.800	4.0
8814.6174	16.00	-.36	80493.630	5.0	81627.800	4.0
8814.6174	16.00	-2.40	80493.630	3.0	81627.800	4.0
8814.6873	20.00	-3.94	39340.080	2.0	40474.241	1.0
8814.7728	28.01	-2.47	137754.780	5.5	138888.930	6.5
8814.7728	9.00	-3.06	128525.350	2.5	129659.500	3.5
8815.0836	10.01	-1.85	301855.710	2.5	302989.820	1.5
8817.3383	14.00	-4.16	62450.400	1.0	63584.220	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8817.5717	10.00	-3.22	172215.720	3.0	173349.510	3.0
8817.5717	10.00	-1.87	172215.720	4.0	173349.510	3.0
8817.6494	10.00	-1.99	172215.720	3.0	173349.500	2.0
8817.8361	18.00	-2.29	122086.974	2.0	123220.730	2.0
8821.2128	28.00	-3.59	49403.420	1.0	50536.742	1.0
8821.9290	6.00	-.90	87633.750	2.0	88766.980	1.0
8823.7977	6.00	-.25	85188.950	1.0	86321.940	0.0
8824.4987	28.01	-2.13	121042.520	1.5	122175.420	2.5
8824.8882	28.01	-4.64	121042.570	1.5	122175.420	2.5
8825.2777	28.01	-3.50	119909.720	1.5	121042.520	1.5
8826.2127	15.00	-4.12	67113.820	2.5	68246.500	2.5
8829.7206	12.00	-2.11	59403.110	1.0	60535.340	2.0
8830.8905	26.02	-4.81	198773.950	5.0	199906.030	6.0
8831.6706	20.00	.54	45050.419	2.0	46182.399	3.0
8837.2917	28.01	-2.63	100609.010	2.5	101740.270	3.5
8839.8703	16.00	-4.55	78286.420	1.0	79417.350	0.0
8840.3393	25.00	-4.77	56356.210	3.5	57487.080	2.5
8841.7310	26.00	-4.12	44378.420	1.0	45509.112	1.0
8841.8249	6.00	-1.34	88836.120	3.0	89966.800	3.0
8841.9813	21.00	-4.72	38570.640	.5	39701.300	.5
8842.0595	24.00	-3.13	53541.250	2.0	54671.900	1.0
8842.3723	28.01	-.79	118914.340	4.5	120044.950	4.5
8842.7634	9.02	-1.54	465414.140	2.5	466544.700	1.5
8842.9199	6.00	-2.24	88836.120	3.0	89966.660	2.0
8843.2327	30.02	-4.10	260805.900	2.0	261936.400	1.0
8843.2327	7.01	-.99	209925.760	2.0	211056.260	3.0
8843.2953	14.00	-1.00	60381.278	1.0	61511.770	1.0
8843.4204	14.00	-1.79	58786.860	3.0	59917.336	2.0
8843.4674	6.00	-1.13	87830.170	1.0	88960.640	0.0
8844.4688	28.00	-1.77	49327.845	2.0	50458.187	1.0
8845.3453	6.00	-1.23	83820.130	1.0	84950.360	2.0
8845.4235	18.00	-2.94	125072.600	1.0	126202.820	0.0
8846.4410	14.00	-2.91	63794.310	2.0	64924.400	3.0
8846.9499	20.00	-4.22	45052.374	3.0	46182.399	3.0
8848.3202	14.00	-.25	62226.390	1.0	63356.240	2.0
8849.1034	24.00	-4.99	33060.740	3.0	34190.490	2.0
8851.5479	7.00	-.92	110035.720	.5	111165.158	1.5
8852.3787	26.00	-3.59	37046.000	4.0	38175.332	3.0
8852.3944	18.00	-1.89	122686.200	1.0	123815.530	1.0
8852.7863	26.00	-1.67	50981.020	0.0	52110.300	1.0
8852.9431	18.01	-3.27	204113.710	1.5	205242.970	.5
8853.9623	18.00	-.76	122686.400	2.0	123815.530	1.0
8854.3545	28.01	-2.14	121692.550	4.5	122821.630	5.5
8854.6682	14.00	-1.65	62450.400	1.0	63579.440	0.0
8855.5780	26.00	-.94	50698.666	2.0	51827.590	2.0
8857.1001	14.00	-3.61	63488.010	3.0	64616.740	2.0
8857.4140	6.00	-.21	85188.950	1.0	86317.640	2.0
8858.8267	27.00	-3.92	48718.570	2.5	49847.080	2.5
8862.3607	14.00	-.02	62666.250	1.0	63794.310	2.0
8862.9106	6.00	-.17	85203.640	2.0	86331.630	1.0
8863.5392	6.00	-4.03	87708.210	2.0	88836.120	3.0
8864.4038	28.01	-2.11	135461.550	2.5	136589.350	3.5
8866.2119	22.00	-1.88	41906.510	2.0	43034.080	1.0
8866.4478	16.00	-2.82	80181.440	3.0	81308.980	2.0
8866.4478	16.00	-1.28	80181.440	3.0	81308.980	3.0
8866.4478	16.00	-.21	80181.440	3.0	81308.980	4.0
8867.2342	28.01	.16	130801.330	4.5	131928.770	4.5
8868.3354	14.00	-4.01	63489.440	2.0	64616.740	2.0
8868.5715	14.00	-3.25	62666.250	1.0	63793.520	1.0
8868.9255	12.00	.56	55891.800	1.0	57019.025	2.0
8869.1222	14.01	-.80	126305.080	3.5	127432.280	3.5
8869.1222	14.01	.74	126305.080	3.5	127432.280	4.5
8869.1222	14.01	.63	126305.080	2.5	127432.280	3.5
8871.6407	12.00	-.84	58580.230	1.0	59707.110	0.0
8873.0109	20.00	-2.38	47550.214	2.0	48676.920	2.0
8873.0109	20.00	-1.47	47550.214	2.0	48676.920	1.0
8873.0109	20.00	-3.75	47550.214	2.0	48676.920	3.0
8873.4597	20.00	-1.46	47550.271	3.0	48676.920	2.0
8873.4597	20.00	-2.20	47550.271	3.0	48676.920	3.0
8874.2474	20.00	-1.14	47550.371	4.0	48676.920	3.0
8875.7365	14.00	-1.20	63225.500	2.0	64351.860	1.0
8875.8153	14.00	-1.40	63225.500	2.0	64351.850	3.0
8876.2093	15.00	-.95	76762.400	.5	77888.700	1.5
8876.2093	19.02	-3.92	241039.000	1.5	242165.300	1.5
8877.2340	21.00	-1.72	32637.400	.5	33763.570	1.5
8877.3916	16.00	-1.28	80182.830	2.0	81308.980	2.0
8877.3916	16.00	-.37	80182.830	2.0	81308.980	3.0
8877.9434	14.00	-1.66	63490.660	3.0	64616.740	2.0
8878.1800	22.00	-3.75	27665.570	1.0	28791.620	1.0
8879.1735	12.00	.34	55891.800	1.0	57017.724	1.0
8882.1239	28.01	-4.60	67031.020	.5	68156.570	1.5
8884.2709	12.00	-.14	55891.800	1.0	57017.078	0.0
8884.8077	14.00	-1.07	62596.320	2.0	63721.530	2.0
8885.8344	28.01	-2.52	132927.970	1.5	134053.050	2.5
8886.3083	12.00	-4.23	59935.370	3.0	61060.390	2.0
8886.3083	12.00	-.56	59935.370	3.0	61060.390	2.0
8886.3083	12.00	-1.85	59935.370	2.0	61060.390	2.0
8888.7734	10.00	-4.70	169748.150	1.0	170872.858	2.0
8889.9432	18.00	-.54	122707.940	3.0	123832.500	3.0
8890.4176	17.01	-3.54	144344.000	2.0	145468.500	1.0
8890.4966	28.01	-1.71	135464.860	3.5	136589.350	3.5
8891.8409	18.00	-2.06	122708.180	2.0	123832.500	3.0
8891.9991	16.00	-.55	80184.680	1.0	81308.980	2.0
8892.3946	14.00	-.32	62231.990	2.0	63356.240	2.0
8892.6002	17.00	-1.47	99765.906	2.5	100890.130	2.5
8894.5306	29.01	-3.82	135910.990	2.0	137034.970	3.0
8894.7760	17.00	-.50	99765.906	2.5	100889.855	3.5
8894.9264	6.00	-.58	87789.630	1.0	88913.560	2.0
8895.7179	18.00	-1.93	123935.970	1.0	125059.800	2.0
8896.2719	12.00	-2.03	59936.630	1.0	61060.390	2.0
8897.0003	20.00	-.79	46258.380	1.0	47382.048	1.0
8897.8555	14.00	-2.04	61595.430	1.0	62718.990	0.0
8898.1723	6.00	-.17	85203.640	2.0	86327.160	3.0
8899.6774	28.01	-2.61	121317.890	3.5	122441.220	4.5
8901.7377	28.01	-2.00	121146.980	2.5	122270.050	3.5
8904.0369	17.00	-3.48	100865.360	1.5	101988.140	2.5
8904.3541	6.00	-2.34	87713.380	3.0	88836.120	3.0
8905.8613	28.01	-4.97	120002.860	3.5	121125.410	4.5
8906.5912	17.00	-3.13	84121.872	1.5	85244.330	.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
8907.0515	18.00	-1.57	122686.200	1.0	123808.600	2.0
8907.6070	38.01	-.09	67522.870	0.0	68645.506	0.0
8907.6864	17.00	-2.15	100865.820	2.5	101988.140	2.5
8908.6388	18.00	-.61	122686.400	2.0	123808.600	2.0
8909.3534	14.00	-.65	62519.660	2.0	63641.770	3.0
8910.8622	18.01	-3.37	201345.220	1.5	202467.140	1.5
8911.4977	26.02	-4.14	199262.440	3.0	200384.280	3.0
8912.2127	28.01	-1.51	118923.200	3.5	120044.950	4.5
8912.6894	20.00	-1.78	47555.230	3.0	48676.920	2.0
8915.9642	20.00	-.57	46260.770	2.0	47382.048	1.0
8920.7218	26.01	-3.91	86416.220	3.5	87536.900	3.5
8921.3587	12.02	-.98	583450.500	1.0	584571.100	2.0
8921.3587	14.00	-3.96	63762.200	3.0	64882.800	2.0
8922.1549	12.02	-3.08	584345.700	1.0	585466.200	1.0
8924.3849	6.00	-.87	87753.730	2.0	88873.950	2.0
8924.4647	21.00	-4.63	38601.500	1.5	39721.710	1.5
8924.5045	14.00	-1.31	60815.925	2.0	61936.130	1.0
8927.7242	10.00	-1.17	169748.150	1.0	170867.951	1.0
8928.8485	6.00	-1.12	85399.810	2.0	86519.470	1.0
8929.0958	22.00	-3.25	18818.230	0.0	19937.859	1.0
8929.5663	22.00	-4.20	41087.310	3.0	42206.880	2.0
8933.9552	14.00	.49	60704.530	3.0	61823.550	2.0
8934.8335	18.00	-2.01	122707.940	3.0	123826.850	2.0
8935.0411	55.00	.30	25791.780	0.0	26910.969	0.0
8935.2648	18.00	-1.06	122086.974	2.0	123205.830	3.0
8936.7504	18.00	-.61	122708.180	2.0	123826.850	2.0
8936.9421	26.00	-3.91	50901.060	2.0	52019.706	1.0
8937.2297	28.01	-1.98	135400.670	3.5	136519.280	4.5
8937.4694	28.01	-4.00	129782.070	3.5	130900.650	2.5
8940.3468	16.00	-4.68	78286.420	1.0	79404.640	1.0
8941.4342	12.00	-.73	53134.642	2.0	54252.726	2.0
8941.4662	14.00	-.74	62596.320	2.0	63714.400	2.0
8942.6660	28.01	-.77	118927.020	4.5	120044.950	4.5
8942.8260	22.00	-4.52	34535.040	2.0	35652.950	3.0
8943.3860	6.00	-3.28	88333.980	0.0	89451.820	1.0
8946.9076	13.01	.24	138799.300	0.0	139916.700	1.0
8949.3103	29.01	-2.91	138593.100	1.0	139710.200	2.0
8950.1756	14.00	-.11	60706.558	1.0	61823.550	2.0
8950.5763	20.00	-3.84	43933.477	1.0	45050.419	2.0
8951.7945	9.02	-3.19	442636.270	3.5	443753.060	2.5
8952.2754	6.00	-1.81	87843.910	1.0	88960.640	0.0
8952.4919	18.00	-1.03	121165.431	3.0	122282.134	2.0
8953.4299	17.00	-1.89	100871.554	3.5	101988.140	2.5
8955.7239	29.01	-2.10	138003.200	2.0	139119.500	3.0
8956.4299	22.00	-4.65	45721.878	4.0	46838.090	4.0
8960.5401	30.02	-4.52	260805.900	2.0	261921.600	2.0
8960.9176	22.00	-1.94	28791.620	1.0	29907.273	2.0
8961.4237	18.01	-.14	201351.550	2.5	202467.140	1.5
8961.5602	7.00	-1.48	110385.795	.5	111501.368	1.5
8961.5762	20.00	.61	45049.073	1.0	46164.644	2.0
8962.5965	12.00	-.25	53134.642	2.0	54250.086	1.0
8963.8341	29.01	-1.76	135958.460	1.0	137073.750	2.0
8964.3164	22.00	-3.41	38670.710	4.0	39785.940	4.0
8964.4771	6.00	-.76	83820.130	1.0	84935.340	1.0
8966.1656	17.01	-4.21	150019.000	0.0	151134.000	1.0
8967.5167	10.00	.24	169748.150	1.0	170862.982	2.0
8969.3833	18.00	-1.87	122717.900	3.0	123832.500	3.0
8969.3833	18.00	.16	122717.900	4.0	123832.500	3.0
8970.1559	12.00	-1.86	58575.487	3.0	59689.991	2.0
8970.4053	12.00	-.74	58575.518	3.0	59689.991	2.0
8970.4053	12.00	-2.35	58575.518	2.0	59689.991	2.0
8970.9768	7.00	-.91	110212.396	2.5	111326.798	2.5
8970.9930	28.01	-1.41	120203.490	2.5	121317.890	3.5
8971.2667	20.00	.37	45050.419	2.0	46164.785	3.0
8972.4020	20.00	-.52	45050.419	2.0	46164.644	2.0
8974.2142	6.00	-3.04	85203.640	2.0	86317.640	2.0
8975.5033	14.00	-2.41	62376.820	3.0	63490.660	3.0
8977.2844	17.00	-1.98	97259.811	1.5	98373.430	2.5
8977.7601	28.01	-4.14	135652.930	1.5	136766.490	2.5
8978.4051	7.01	-2.21	210301.680	3.0	211415.160	2.0
8979.0503	29.01	-2.02	138028.700	1.0	139142.100	2.0
8979.2922	26.00	-1.93	50456.790	3.0	51570.160	3.0
8979.9374	28.01	-4.40	134527.240	3.5	135640.530	4.5
8980.9942	17.00	-3.00	97259.811	1.5	98372.970	1.5
8981.7930	14.00	.15	61841.940	2.0	62955.000	2.0
8982.6001	10.00	-1.86	171148.780	0.0	172261.740	1.0
8982.9229	24.00	-4.20	44088.920	1.0	45201.840	1.0
8983.4072	28.01	-1.29	130815.910	3.5	131928.770	4.5
8983.5687	26.02	-4.33	199212.720	4.0	200325.560	4.0
8984.6990	17.01	-4.20	146013.000	2.0	147125.700	3.0
8985.3450	14.00	-2.33	62376.820	3.0	63489.440	2.0
8985.5308	20.00	.94	45052.374	3.0	46164.971	4.0
8986.1527	14.00	1.04	61841.940	2.0	62954.460	3.0
8987.0332	20.00	-.12	45052.374	3.0	46164.785	3.0
8988.0916	6.00	-.47	83838.080	2.0	84950.360	2.0
8988.1725	20.00	-1.67	45052.374	3.0	46164.644	2.0
8989.5464	12.02	-2.01	584354.100	2.0	585466.200	1.0
8989.6273	14.00	-.14	62376.820	3.0	63488.910	4.0
8990.6055	22.00	-3.38	18825.890	1.0	19937.859	1.0
8992.6192	28.01	-1.20	132818.160	4.5	133929.880	3.5
8993.4767	26.00	-4.16	50998.686	2.0	52110.300	1.0
8994.6418	6.00	-1.16	83740.060	0.0	84851.530	1.0
8995.6960	28.01	-1.15	135849.410	2.5	136960.750	2.5
8996.8274	29.01	-3.86	117928.480	1.0	119039.680	2.0
8996.9083	14.00	-1.24	62376.820	3.0	63488.010	3.0
9002.9849	26.02	-4.56	198773.950	5.0	199884.390	5.0
9003.3092	14.00	-3.10	59190.460	1.0	60300.860	2.0
9004.1201	28.01	-2.00	128732.030	1.5	129842.330	2.5
9004.1201	29.01	-1.96	135934.150	5.0	137044.450	4.0
9004.6879	17.00	-2.01	100890.130	2.5	102000.360	1.5
9004.7689	6.00	-3.37	88061.280	1.0	89171.500	0.0
9004.8095	10.00	-2.78	171489.485	1.0	172599.700	0.0
9006.6348	26.02	-3.42	199327.950	1.0	200437.940	2.0
9008.2742	14.00	-1.06	59191.072	2.0	60300.860	2.0
9008.3391	19.00	-.02	33572.060	2.5	34681.840	1.5
9008.4933	12.00	-1.04	58580.230	1.0	59689.991	2.0
9008.7450	19.00	-.98	33572.110	1.5	34681.840	1.5
9008.7450	19.00	-.28	33572.110	1.5	34681.840	.5
9010.5313	14.00	-.64	63773.290	3.0	64882.800	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9011.1242	7.00	.27	110103.834	1.5	111213.271	1.5
9012.8870	14.00	-1.72	63773.580	2.0	64882.800	2.0
9014.3499	24.00	-4.22	44092.800	0.0	45201.[illegible]0	1.0
9015.0814	18.00	.08	122717.900	3.0	123826.850	2.0
9015.8131	28.01	-4.51	136673.640	4.5	137782.500	4.5
9016.3824	7.01	-.94	210301.680	3.0	211410.470	3.0
9016.5043	10.00	-3.24	169488.415	1.0	170597.190	2.0
9016.9516	6.00	-2.22	88061.280	1.0	89170.000	1.0
9017.0329	14.00	-.25	62231.990	2.0	63340.700	3.0
9017.7649	18.00	-2.49	124041.380	2.0	125150.000	3.0
9019.8803	29.01	-5.00	117883.140	4.0	118991.500	4.0
9020.1488	14.00	-.98	60487.103	1.0	61595.430	1.0
9020.8245	7.00	-.26	111501.368	1.5	112609.612	1.5
9020.9547	22.00	-1.09	28952.100	4.0	30060.328	4.0
9024.0571	7.00	-.93	110035.720	.5	111143.567	.5
9024.7658	18.01	-3.57	204113.710	1.5	205221.470	1.5
9025.2302	14.00	.04	59273.575	1.0	60381.278	1.0
9027.3083	26.00	-3.73	50186.814	2.0	51294.262	3.0
9028.1073	18.00	-1.50	122708.180	2.0	123815.530	1.0
9028.2703	14.00	.28	62666.250	1.0	63773.580	2.0
9028.5965	22.00	-4.09	27665.570	1.0	28772.860	0.0
9029.5750	7.01	-1.40	209925.760	2.0	211032.930	2.0
9029.5832	14.00	-.78	56690.903	2.0	57798.072	2.0
9030.9617	15.00	-2.11	79515.400	3.5	80622.400	2.5
9031.7776	10.00	-4.06	170578.390	1.0	171685.290	2.0
9031.8592	6.00	-.85	85399.810	2.0	86506.700	2.0
9033.4832	7.00	-1.75	110220.107	1.5	111326.798	2.5
9033.9812	6.00	-.49	87806.930	3.0	88913.560	2.0
9035.2875	12.00	-.49	59897.860	1.0	61004.330	1.0
9035.2875	12.00	-1.67	59897.860	2.0	61004.330	1.0
9035.2875	12.00	-.19	59897.860	1.0	61004.330	2.0
9035.2875	12.00	-.37	59897.860	0.0	61004.330	1.0
9035.2875	12.00	-.67	59897.860	2.0	61004.330	2.0
9035.2875	12.00	.25	59897.860	2.0	61004.330	3.0
9035.9408	27.00	-4.09	47612.180	1.5	48718.570	2.5
9039.9036	7.00	-1.53	110395.463	1.5	111501.368	1.5
9041.4242	28.00	-4.86	48671.900	3.0	49777.619	3.0
9042.0048	17.00	-.69	99765.906	2.5	100871.554	3.5
9042.0539	26.00	-3.74	50043.250	1.0	51148.892	2.0
9043.8698	28.01	-.52	118939.530	5.5	120044.950	4.5
9047.0617	19.00	-.32	33178.120	2.5	34283.150	1.5
9047.9624	28.01	-1.02	118897.940	2.5	120002.860	3.5
9047.9624	19.00	-1.28	33178.230	1.5	34283.150	1.5
9048.0442	25.00	-3.06	44978.980	1.5	46083.890	1.5
9048.0852	22.00	-4.22	37659.927	3.0	38764.832	3.0
9048.2080	10.00	-4.43	171752.100	1.0	172856.990	1.0
9048.9451	13.01	-.42	138811.900	2.0	139916.700	1.0
9048.9451	13.01	-.90	138811.900	1.0	139916.700	1.0
9049.3547	28.01	-.88	132818.160	4.5	133922.910	4.5
9049.4366	9.02	-4.67	466722.420	2.5	467827.160	1.5
9051.0752	19.00	-.58	33178.230	1.5	34282.770	.5
9051.1243	10.00	-4.02	170578.390	1.0	171682.924	1.0
9052.5504	21.00	-2.15	32659.210	1.5	33763.570	1.5
9052.9603	7.01	-2.50	209925.760	2.0	211030.070	3.0
9054.2312	13.00	-.57	42233.722	1.5	43337.877	1.5
9054.3541	6.00	-.25	83747.390	2.0	84851.530	1.0
9057.5944	22.00	-1.51	28882.440	3.0	29986.185	3.0
9058.5383	18.00	-3.20	123935.970	1.0	125039.600	1.0
9058.5383	14.00	-1.81	60856.630	1.0	61960.260	0.0
9059.8517	29.01	-3.31	137073.750	2.0	138177.220	2.0
9059.9338	6.00	-1.83	88061.280	1.0	89164.740	1.0
9060.7550	18.00	-.96	124046.640	4.0	125150.000	3.0
9062.3155	10.00	.21	169748.150	1.0	170851.320	1.0
9063.7779	26.00	-4.87	50045.900	2.0	51148.892	2.0
9063.9587	26.00	-.76	50045.900	2.0	51148.870	3.0
9064.0245	10.00	-4.70	170578.390	1.0	171681.352	2.0
9067.3293	10.01	-1.76	301801.090	3.5	302903.650	2.5
9068.0695	28.01	-2.42	121042.520	1.5	122144.990	2.5
9070.6200	28.01	-4.59	134527.240	3.5	135629.400	3.5
9071.1139	8.01	-.23	274739.200	2.5	275841.300	3.5
9071.3773	10.00	-2.13	169482.972	0.0	170585.040	1.0
9072.7603	28.01	-3.70	118563.390	3.5	119665.290	2.5
9073.2543	21.00	-2.04	32696.840	2.5	33798.680	2.5
9074.2426	9.02	-3.43	464939.500	2.5	466041.220	3.5
9075.8078	6.00	-1.58	83848.830	3.0	84950.360	2.0
9077.1015	18.00	-.86	122160.220	3.0	123261.593	2.0
9077.7774	13.00	.13	42233.722	1.5	43335.013	.5
9078.7749	28.01	-2.80	134527.240	3.5	135628.410	4.5
9079.6736	18.00	.43	123557.459	3.0	124658.520	2.0
9080.2592	14.00	-1.10	62921.080	2.0	64022.070	3.0
9081.3315	6.00	-2.42	87773.090	2.0	88873.950	2.0
9082.3215	24.00	-3.55	48488.230	0.0	49588.970	1.0
9082.6515	8.01	-2.90	254590.700	4.5	255691.400	3.5
9082.9816	18.00	-.01	122707.940	3.0	123808.600	2.0
9083.8647	14.00	-2.68	62669.727	2.0	63770.280	1.0
9083.9720	6.00	-.25	84103.100	2.0	85203.640	2.0
9084.3847	27.00	-4.21	47977.940	.5	49078.430	1.5
9084.9626	18.00	-1.16	122708.180	2.0	123808.600	2.0
9085.2929	28.01	-2.51	118809.340	1.5	119909.720	1.5
9086.6141	14.00	-1.22	62921.080	2.0	64021.300	2.0
9086.9279	7.00	-1.12	110103.834	1.5	111204.016	2.5
9086.9857	10.00	-.44	167867.178	0.0	168967.353	1.0
9087.0436	14.00	-.81	49399.670	1.0	50499.838	2.0
9087.4070	10.00	-.17	169748.150	1.0	170848.274	0.0
9087.6383	13.00	.39	42237.781	2.5	43337.877	1.5
9087.7126	10.00	-3.64	171473.313	2.0	172573.400	2.0
9088.1836	10.00	-4.29	171752.100	1.0	172852.130	0.0
9088.3323	7.00	-2.30	110401.356	2.5	111501.368	1.5
9089.0925	18.00	-2.69	124692.020	2.0	125791.940	2.0
9089.1420	17.00	-2.08	99765.906	2.5	100865.820	2.5
9090.5718	11.00	-.15	29172.839	2.5	30272.580	1.5
9090.9851	11.00	-1.11	29172.889	1.5	30272.580	1.5
9092.9448	17.00	-2.95	99765.906	2.5	100865.360	1.5
9094.2187	23.00	-3.77	38242.460	3.5	39341.760	3.5
9095.7079	6.00	-.54	83752.410	1.0	84851.530	1.0
9095.8404	17.00	-2.97	98418.890	3.5	99517.994	4.5
9096.1052	14.00	-.50	60496.358	2.0	61595.430	1.0
9096.2045	21.00	-2.27	15041.980	3.5	16141.040	2.5
9096.3701	14.00	-.25	63204.890	2.0	64303.930	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9100.3446	18.00	-1.22	124051.440	3.0	125150.000	3.0
9102.0845	18.00	-2.20	124051.650	2.0	125150.000	3.0
9102.3331	14.00	-2.29	62921.080	2.0	64019.400	3.0
9102.6233	17.00	-1.32	100889.855	3.5	101988.140	2.5
9103.6594	23.00	-3.68	37025.600	3.5	38123.760	4.5
9104.9030	17.00	-3.58	100890.130	2.5	101988.140	2.5
9104.9859	13.01	.06	133914.100	2.0	135012.100	1.0
9105.9480	10.00	-4.74	170585.040	1.0	171682.924	1.0
9106.1470	28.01	-3.66	121692.550	4.5	122790.410	4.5
9106.4622	14.00	-2.28	56700.250	1.0	57798.072	2.0
9110.3792	6.00	-1.97	88873.950	2.0	89971.300	3.0
9110.8690	26.00	-3.38	47831.132	2.0	48928.423	2.0
9111.1264	6.00	-1.54	83838.080	2.0	84935.340	1.0
9111.2925	14.00	.63	61447.860	2.0	62545.100	1.0
9111.6246	8.01	-2.13	274782.400	3.5	275879.600	2.5
9111.6246	8.01	-.67	274782.400	3.5	275879.600	3.5
9113.2858	21.00	-4.70	38657.930	2.5	39754.930	2.5
9113.3440	18.00	-2.08	118469.117	2.0	119566.110	3.0
9115.1139	6.00	-.85	87777.170	3.0	88873.950	2.0
9116.4022	10.00	-1.86	169488.415	1.0	170585.040	1.0
9116.6100	22.00	-3.36	38544.380	3.0	39640.980	3.0
9117.6078	21.00	-5.65	14926.240	2.5	16022.720	2.5
9118.0236	14.00	.18	61423.230	3.0	62519.660	2.0
9118.4810	26.00	-.76	49737.110	5.0	50833.485	5.0
9119.0050	10.00	-3.22	170585.040	1.0	171681.352	2.0
9121.8922	26.00	-3.37	48531.896	3.0	49627.861	4.0
9122.4333	18.00	-2.13	124054.100	3.0	125150.000	3.0
9124.6397	26.00	-1.64	50534.435	3.0	51630.070	2.0
9125.4309	21.00	-4.87	14926.240	2.5	16021.780	1.5
9125.7641	14.00	-.52	62925.800	1.0	64021.300	2.0
9126.4473	10.00	-3.74	169482.972	0.0	170578.390	1.0
9126.9305	28.01	-3.26	134527.240	3.5	135622.600	3.5
9127.1972	14.00	.32	57798.072	2.0	58893.400	3.0
9129.1808	22.00	-1.73	41985.830	3.0	43080.920	2.0
9129.2641	21.00	-2.16	32751.540	3.5	33846.620	3.5
9129.8144	7.00	-.43	110103.834	1.5	111198.848	.5
9130.6565	14.00	-3.25	61574.814	3.0	62669.727	2.0
9130.7149	10.00	-2.37	169502.284	3.0	170597.190	2.0
9131.1820	18.00	-3.15	123773.920	3.0	124868.770	3.0
9131.1820	18.00	-2.22	123773.920	3.0	124868.770	4.0
9132.9921	22.00	-3.48	18911.399	2.0	20006.032	2.0
9135.2287	14.00	.55	61574.814	3.0	62669.179	4.0
9135.3539	14.00	-1.31	61574.814	3.0	62669.164	3.0
9136.9152	26.00	-4.66	47834.260	3.0	48928.423	2.0
9137.4330	11.00	-.41	29172.889	1.5	30266.990	.5
9139.7803	14.00	-.48	61841.940	2.0	62935.760	3.0
9142.4299	14.00	-.65	62421.030	3.0	63514.533	4.0
9146.5620	14.00	-.90	61574.814	3.0	62667.823	3.0
9147.8090	28.01	-3.93	118563.390	3.5	119656.250	3.5
9147.8927	6.00	-.83	88873.950	2.0	89966.800	3.0
9148.7466	7.00	-.47	111853.061	1.5	112945.809	2.5
9149.0648	6.00	-1.94	88873.950	2.0	89966.660	2.0
9150.0780	12.00	-1.26	59342.510	1.0	60435.099	2.0
9150.0780	12.00	-1.73	59342.510	2.0	60435.099	2.0
9150.9909	14.00	-2.15	63204.890	2.0	64297.370	3.0
9151.5186	14.00	-1.58	62667.823	3.0	63760.240	3.0
9156.6904	9.02	-1.64	443865.310	1.5	444957.110	1.5
9156.8581	18.00	-3.09	124692.020	2.0	125783.800	1.0
9157.6298	18.00	-.39	122790.612	0.0	123882.300	1.0
9157.9486	24.00	-4.18	48558.570	2.0	49650.220	3.0
9158.0325	18.00	-1.37	124058.360	3.0	125150.000	3.0
9158.0325	18.00	-.65	124058.360	4.0	125150.000	3.0
9158.3681	6.00	-2.49	85399.810	2.0	86491.410	1.0
9159.2910	28.01	-.77	121178.560	3.5	122270.050	3.5
9161.1375	18.00	-4.41	123773.920	3.0	124865.190	2.0
9162.3970	18.00	-1.26	123773.920	3.0	124865.040	3.0
9162.7665	14.00	-3.00	62669.164	3.0	63760.240	3.0
9162.8924	14.00	-.29	62669.179	4.0	63760.240	3.0
9163.4888	7.00	-1.27	110194.654	1.5	111285.644	1.5
9163.8247	11.00	.37	37296.320	.5	38387.270	1.5
9164.7488	28.01	-4.20	134527.240	3.5	135618.080	2.5
9165.9251	18.00	-3.24	122717.900	3.0	123808.600	2.0
9167.4381	24.00	-3.98	48507.560	1.0	49598.080	2.0
9167.4969	14.00	-3.68	62669.727	2.0	63760.240	3.0
9170.0112	18.00	.17	121191.920	2.0	122282.134	2.0
9171.3908	23.00	-3.75	37025.600	3.5	38115.650	3.5
9172.0219	10.00	-3.95	169488.415	1.0	170578.390	1.0
9174.6733	11.00	-.33	37297.610	1.5	38387.270	1.5
9174.7828	11.00	.62	37297.610	1.5	38387.257	2.5
9175.9365	28.01	-.21	121180.540	4.5	122270.050	3.5
9176.1302	10.00	-4.74	171473.313	2.0	172562.800	1.0
9176.6946	19.00	-.09	30606.730	2.5	31696.150	1.5
9176.8630	13.01	-.28	145185.000	1.0	146274.400	2.0
9177.8740	14.00	-2.21	63793.520	1.0	64882.800	2.0
9178.8852	19.00	.07	30606.730	3.5	31695.890	2.5
9178.8852	19.00	-1.23	30606.730	2.5	31695.890	2.5
9179.4751	19.00	-1.50	32648.350	.5	33737.440	1.5
9179.9809	18.00	-3.29	125122.540	0.0	126211.570	1.0
9183.3708	10.00	-2.42	169508.562	2.0	170597.190	2.0
9184.2819	28.01	-2.04	118914.340	4.5	120002.860	3.5
9184.5350	14.00	-1.26	63794.310	2.0	64882.800	2.0
9185.0414	9.02	-3.42	443868.680	2.5	444957.110	1.5
9185.0667	18.00	-1.29	117563.020	0.0	118651.447	1.0
9185.7249	10.00	-4.78	170597.190	2.0	171685.539	3.0
9185.9697	22.00	-3.72	27740.190	2.0	28828.510	2.0
9186.5606	19.00	-1.80	32648.350	.5	33736.600	.5
9187.8270	10.00	-4.09	170597.190	2.0	171685.290	2.0
9188.0804	6.00	-2.19	88061.280	1.0	89149.350	1.0
9192.4735	6.00	-1.01	84116.090	1.0	85203.640	2.0
9192.7271	18.00	-2.83	122686.400	2.0	123773.920	3.0
9192.9807	18.01	-2.52	204133.980	2.5	205221.470	1.5
9195.3483	26.02	-4.36	198717.600	4.0	199804.810	4.0
9197.1247	15.00	-1.95	78132.600	.5	79219.600	.5
9198.1401	10.00	-3.08	170585.040	1.0	171671.920	1.0
9198.2248	22.00	-4.38	40670.600	2.0	41757.470	3.0
9198.3941	9.00	-1.98	128520.220	.5	129607.070	.5
9199.4945	18.00	-.41	123773.920	3.0	124860.640	4.0
9201.3572	15.00	-.57	75675.900	1.5	76762.400	.5
9202.5430	29.01	-4.08	137044.450	4.0	138130.810	3.0
9203.0513	13.01	-3.49	146414.500	3.0	147500.800	4.0
9203.0513	13.01	-1.93	146414.500	4.0	147500.800	4.0
9203.0513	13.01	-2.07	146414.500	4.0	147500.800	4.0
9203.0513	13.01	-.40	146414.500	5.0	147500.800	4.0
9203.8138	22.00	-4.88	28828.510	2.0	29914.720	3.0
9204.8307	6.00	-3.23	87708.210	2.0	88794.300	2.0
9206.1869	14.00	-1.19	62936.140	3.0	64022.070	3.0
9206.8652	6.00	-.70	84103.100	2.0	85188.950	1.0
9206.9839	28.00	-3.67	48953.344	1.0	50039.180	2.0
9207.8489	10.00	-4.73	170597.190	2.0	171682.924	1.0
9208.1372	13.01	-2.06	146414.500	3.0	147500.200	3.0
9208.1372	13.01	-.67	146414.500	4.0	147500.200	3.0
9208.1372	13.01	.08	146414.500	4.0	147500.200	3.0
9208.5613	28.01	-.80	118803.820	6.5	119889.470	5.5
9209.8338	22.00	-2.19	43148.150	3.0	44233.650	3.0
9209.9186	28.01	-4.97	67880.160	2.5	68965.650	1.5
9211.5310	13.01	-.64	146414.500	3.0	147499.800	2.0
9211.7007	18.00	-1.65	124692.020	2.0	125777.300	1.0
9211.8281	26.00	-4.21	47136.058	2.0	48221.323	1.0
9211.9554	28.01	-.90	132982.510	1.5	134067.760	1.5
9212.7194	14.00	-2.34	62936.140	3.0	64021.300	2.0
9213.0930	18.00	-.10	122086.974	2.0	123172.090	1.0
9216.5838	26.00	-1.07	50534.435	3.0	51619.140	3.0
9217.1362	26.02	-4.55	198821.390	6.0	199906.030	6.0
9217.9010	14.00	-1.91	61511.770	1.0	62596.320	2.0
9217.9860	26.00	-4.94	50861.320	2.0	51945.860	1.0
9218.7510	29.01	-3.73	135834.900	4.0	136919.350	3.0
9219.4312	29.01	-2.47	134675.600	2.0	135759.970	2.0
9219.8563	6.00	-3.10	87789.630	1.0	88873.950	2.0
9221.1999	10.00	-4.06	170597.190	2.0	171681.352	2.0
9221.3871	10.00	-3.42	170585.040	1.0	171669.180	0.0
9221.4721	26.02	-3.27	199300.150	2.0	200384.280	3.0
9222.4079	28.01	-.93	135435.260	4.5	136519.280	4.5
9222.8333	14.00	-1.73	62936.140	3.0	64020.110	4.0
9223.3013	10.00	-2.52	171489.485	1.0	172573.400	2.0
9223.4629	22.00	-4.33	41039.874	5.0	42123.770	6.0
9223.8544	29.01	-4.90	136919.350	3.0	138003.200	2.0
9223.9395	18.01	-.50	203501.800	2.5	204585.640	2.5
9224.2799	13.01	-2.11	146185.000	2.0	147268.800	1.0
9224.2799	13.01	-2.59	146185.000	1.0	147268.800	1.0
9224.3650	9.00	-2.36	128523.280	1.5	129607.070	.5
9224.6885	22.00	-2.41	28828.510	2.0	29912.262	3.0
9225.5568	10.01	-2.84	302425.870	1.5	303509.520	2.5
9225.9824	29.01	-1.24	135990.150	3.0	137073.750	2.0
9227.1746	26.00	-3.38	50861.850	3.0	51945.310	2.0
9227.7708	6.00	-2.32	87830.170	1.0	88913.560	2.0
9227.8559	28.01	-4.84	115108.090	2.5	116191.470	2.5
9227.9411	28.01	-2.88	120211.300	5.5	121294.670	4.5
9228.1115	28.01	-1.28	132846.530	3.5	133929.880	3.5
9228.8782	14.00	-4.10	62936.140	3.0	64019.400	3.0
9229.1338	28.01	-3.05	134539.370	2.5	135622.600	3.5
9231.2643	26.00	-1.41	50456.790	3.0	51539.770	2.0
9234.1633	6.00	-1.42	87708.210	2.0	88790.850	1.0
9236.0401	29.01	-4.78	135952.550	2.0	137034.970	3.0
9236.2961	6.00	-.74	87753.730	2.0	88836.120	3.0
9236.3132	22.00	-2.11	28772.860	0.0	29855.248	1.0
9236.4668	10.00	-3.48	172268.400	1.0	173350.770	1.0
9236.4668	10.00	-3.48	172268.400	1.0	173350.770	1.0
9239.1983	6.01	.65	182993.230	1.5	184075.280	2.5
9242.9569	14.00	-3.46	63762.200	3.0	64843.810	4.0
9243.4696	29.01	-2.78	133594.050	3.0	134675.600	2.0
9244.6663	24.00	-3.22	48507.560	1.0	49588.970	1.0
9244.9228	6.00	-2.31	88061.280	1.0	89142.660	2.0
9245.0937	6.01	-.31	182993.230	1.5	184074.590	1.5
9245.0937	6.01	.39	182993.230	.5	184074.590	1.5
9245.2647	28.01	-.29	135879.410	3.5	136960.750	2.5
9246.9750	28.01	-4.35	136673.640	4.5	137754.780	5.5
9247.2316	28.01	-2.60	118828.610	2.5	119909.720	1.5
9247.3171	10.00	-3.90	172268.400	1.0	173349.500	2.0
9247.3171	10.00	-3.90	172268.400	1.0	173349.500	2.0
9247.5738	10.00	-2.49	172268.400	1.0	173349.470	2.0
9247.5738	10.00	-2.49	172268.400	1.0	173349.470	2.0
9248.0015	6.00	-1.66	87832.540	2.0	88913.560	2.0
9248.8571	6.00	-1.09	87713.380	3.0	88794.300	2.0
9249.1137	14.00	-1.02	63762.920	4.0	64843.810	4.0
9249.5416	12.01	-.71	115794.410	2.5	116875.250	2.5
9249.5416	12.01	.60	115794.410	2.5	116875.250	3.5
9249.5416	12.01	.44	115794.410	1.5	116875.250	2.5
9250.9367	26.00	-3.73	50611.303	3.0	51691.980	3.0
9251.0566	14.00	-.10	62669.727	2.0	63750.390	1.0
9252.1097	28.01	-3.31	134539.370	2.5	135619.910	1.5
9252.8118	22.00	-3.25	33090.492	1.0	34170.950	0.0
9254.9105	17.00	-1.85	97338.887	2.5	98419.100	2.5
9255.0218	10.00	-3.23	169516.990	1.0	170597.190	2.0
9256.7100	17.00	-.90	97338.887	2.5	98418.890	3.5
9258.1073	17.00	-4.60	100865.360	1.5	101945.200	1.5
9258.1073	17.00	-3.86	100865.360	1.5	101945.200	.5
9258.3645	28.01	-1.10	135652.930	1.5	136732.740	1.5
9259.6508	28.01	-.48	118923.200	3.5	120002.860	3.5
9260.9374	7.00	-.08	110247.288	3.5	111326.798	2.5
9261.0232	14.00	-1.27	60856.630	1.0	61936.130	1.0
9261.1091	6.00	-2.76	88092.010	1.0	89171.500	0.0
9261.1948	6.00	-2.31	87711.370	0.0	88790.850	1.0
9263.6491	26.00	-4.24	47452.702	4.0	48531.896	3.0
9266.0876	22.00	-4.81	43843.820	3.0	44922.730	3.0
9267.3503	22.00	-2.09	28828.510	2.0	29907.273	2.0
9267.7197	9.02	-3.45	443927.410	3.5	445006.130	2.5
9267.8056	28.01	-2.99	134539.370	2.5	135618.080	2.5
9269.2578	10.00	-3.60	170597.190	2.0	171675.731	3.0
9269.9883	14.00	-3.26	60496.358	2.0	61574.814	3.0
9270.8136	12.00	-1.80	59342.510	0.0	60420.870	1.0
9270.8136	12.00	-1.32	59342.510	1.0	60420.870	1.0
9270.8136	12.00	-1.10	59342.510	2.0	60420.870	1.0
9271.4155	18.01	-2.45	201351.550	2.5	202429.840	3.5
9272.0174	18.00	.22	122695.700	4.0	123773.920	3.0
9273.9957	6.00	-1.45	88092.010	1.0	89170.000	1.0
9274.3398	22.00	-3.93	41780.950	4.0	42858.900	3.0
9275.6305	18.01	-2.80	189934.550	.5	191012.350	1.5
9276.2330	28.01	-1.41	121192.320	3.5	122270.050	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9280.7970	10.00	-2.33	171752.100	1.0	172829.300	1.0
9280.7970	10.00	-2.33	171752.100	1.0	172829.300	1.0
9282.0723	26.00	-4.94	50628.000	3.0	51705.052	2.0
9283.0204	7.00	-.98	110194.654	1.5	111271.596	.5
9284.4170	18.00	-2.84	124715.160	3.0	125791.940	2.0
9286.5559	26.00	-4.46	45333.834	2.0	46410.366	1.0
9287.0217	10.00	-2.43	169508.562	2.0	170585.040	1.0
9287.4359	28.01	-3.39	135512.920	2.5	136589.350	3.5
9287.8673	28.01	-2.22	132846.530	3.5	133922.910	4.5
9290.0250	24.00	-.44	54132.880	3.0	55209.010	4.0
9290.8193	10.00	.20	169797.190	3.0	170873.228	3.0
9291.7519	28.01	-4.18	120044.950	4.5	121120.880	5.5
9291.9246	28.01	-1.79	121194.140	2.5	122270.050	3.5
9292.4169	26.00	-4.89	45061.287	3.0	46137.140	3.0
9292.5292	28.01	-.36	118927.020	4.5	120002.860	3.5
9292.8747	10.00	-.93	171752.100	1.0	172827.900	2.0
9292.8747	10.00	-.93	171752.100	1.0	172827.900	2.0
9293.3930	6.00	-2.03	87718.560	1.0	88794.300	2.0
9294.0150	10.00	-1.07	169797.190	3.0	170872.858	2.0
9294.6717	22.00	-3.45	38451.298	2.0	39526.890	2.0
9295.3804	6.00	-.48	87760.610	4.0	88836.120	3.0
9295.4668	10.00	-.69	171913.480	0.0	172988.980	1.0
9297.4552	18.01	-.84	201345.220	1.5	202420.490	.5
9298.9253	28.01	-3.87	130147.870	.5	131222.970	1.5
9300.3094	9.00	-2.62	128697.890	2.5	129772.830	2.5
9301.0016	28.01	-.14	129396.040	5.5	130470.900	4.5
9301.4343	28.01	-3.06	135444.470	3.5	136519.280	4.5
9301.5208	19.02	-3.46	243448.200	1.5	244523.000	2.5
9302.1267	10.00	-4.64	170597.190	2.0	171671.920	1.0
9302.3863	13.01	-.15	124792.000	2.0	125866.700	1.0
9305.6767	28.01	-4.76	106007.890	2.5	107082.210	2.5
9308.5013	7.00	-.75	111853.061	1.5	112927.055	1.5
9308.7094	6.00	-2.06	88096.030	2.0	89170.000	1.0
9312.8716	23.00	-4.86	39241.340	2.5	40314.830	3.5
9313.3141	14.00	-1.27	61303.381	3.0	62376.820	3.0
9313.4790	10.01	-4.47	302750.810	3.5	303824.230	3.5
9314.0863	10.00	-.94	171752.100	1.0	172825.450	1.0
9314.0863	10.00	-.94	171752.100	1.0	172825.450	1.0
9314.3900	10.00	-3.85	171489.485	1.0	172562.800	1.0
9314.9716	7.00	-3.11	110212.396	2.5	111285.644	1.5
9316.6903	6.00	-1.00	83877.310	1.0	84950.360	2.0
9317.5587	26.00	-1.73	53610.440	4.0	54683.390	4.0
9318.0536	17.00	-4.45	98693.013	3.5	99765.906	2.5
9318.3403	22.00	-4.74	40844.190	3.0	41917.050	4.0
9318.3403	6.00	-1.43	84116.090	1.0	85188.950	1.0
9319.4696	6.00	-1.43	88092.010	1.0	89164.740	1.0
9319.8519	17.00	-3.39	98693.220	2.5	99765.906	2.5
9319.8866	28.00	-2.99	51124.800	3.0	52197.482	3.0
9319.9908	10.01	-2.47	327774.480	4.5	328847.150	3.5
9320.8598	10.01	-.83	327774.480	4.5	328847.050	4.5
9321.1466	14.00	-2.82	61304.283	2.0	62376.820	3.0
9321.7288	10.00	-1.33	171752.100	1.0	172824.570	0.0
9321.7288	10.00	-1.33	171752.100	1.0	172824.570	0.0
9322.3374	28.01	-1.09	135652.930	1.5	136725.330	.5
9323.2937	6.00	-2.08	87718.560	1.0	88790.850	1.0
9323.3806	18.00	-1.74	124041.200	1.0	125113.480	2.0
9323.6415	18.01	-.84	203344.980	1.5	204417.230	1.5
9324.9460	18.00	-.78	124041.380	2.0	125113.480	2.0
9325.4678	10.01	-.93	327775.110	3.5	328847.150	3.5
9326.3378	10.01	-2.49	327775.110	3.5	328847.050	4.5
9326.5989	24.00	-2.56	54132.880	3.0	55204.790	3.0
9327.1470	26.00	-3.19	46889.126	4.0	47960.973	4.0
9327.5561	14.00	-1.70	61447.860	2.0	62519.660	2.0
9327.8172	14.00	-2.49	61305.050	3.0	62376.820	3.0
9328.6875	9.01	-4.65	253474.660	4.0	254546.330	3.0
9329.5058	10.00	-1.60	171009.340	1.0	172080.916	1.0
9330.4289	9.01	-3.41	253474.660	4.0	254546.130	4.0
9331.0384	15.00	-.60	76762.400	.5	77833.800	1.5
9332.6935	9.01	-3.70	253475.280	2.0	254546.490	2.0
9332.6935	9.01	-4.68	253475.280	3.0	254546.490	2.0
9332.7806	15.00	.20	76875.400	1.5	77946.600	2.5
9334.0877	9.01	-3.02	253475.280	2.0	254546.330	3.0
9334.0877	9.01	-3.36	253475.280	3.0	254546.330	3.0
9335.0202	26.00	-1.78	49737.110	5.0	50808.053	4.0
9335.2033	10.00	-3.05	169526.268	2.0	170597.190	2.0
9335.8310	9.01	-2.77	253475.280	3.0	254546.130	4.0
9336.2669	8.03	-1.21	596798.200	1.5	597869.000	.5
9336.9645	19.00	-.09	33572.060	2.5	34642.780	1.5
9337.4005	19.00	-1.04	33572.110	1.5	34642.780	1.5
9337.4005	19.00	-.34	33572.110	1.5	34642.780	.5
9338.5344	28.01	-1.80	132982.510	1.5	134053.050	2.5
9338.6216	9.01	-3.57	253475.960	1.0	254546.490	2.0
9338.7088	14.00	-2.53	63773.290	3.0	64843.810	4.0
9339.5813	28.01	-1.29	121042.520	1.5	122112.940	.5
9339.6249	17.00	-2.03	94827.150	2.5	95897.565	1.5
9340.0175	28.01	-4.59	121042.570	1.5	122112.940	.5
9340.2793	25.00	-2.38	45013.550	2.5	46083.890	1.5
9340.5848	10.00	-3.51	169526.885	3.0	170597.190	2.0
9342.3130	14.00	-.28	61306.713	4.0	62376.820	3.0
9343.2473	13.01	.60	138518.700	2.0	139588.700	3.0
9344.1991	14.00	-.22	59636.667	1.0	60706.558	1.0
9344.7494	10.00	-3.19	169508.562	2.0	170578.390	1.0
9344.9940	13.01	.28	146274.400	2.0	147344.200	3.0
9345.3434	14.00	-1.48	63225.500	2.0	64295.260	3.0
9346.3044	6.00	-3.27	87843.910	1.0	88913.560	2.0
9348.6643	15.00	-2.62	67113.820	2.5	68183.200	1.5
9349.3899	22.00	-4.08	43971.513	5.0	45040.810	4.0
9352.3374	12.00	-1.49	59935.370	2.0	61004.330	2.0
9352.3374	12.00	-.58	59935.370	2.0	61004.330	1.0
9352.3374	12.00	-.45	59935.370	3.0	61004.330	2.0
9352.3374	12.00	-2.25	59935.370	3.0	61004.330	2.0
9352.3374	12.00	-2.86	59935.370	2.0	61004.330	3.0
9352.3374	12.00	-1.53	59935.370	3.0	61004.330	3.0
9352.3374	12.00	-1.72	59935.370	3.0	61004.330	3.0
9352.3374	12.00	-.25	59935.370	4.0	61004.330	3.0
9352.7749	19.00	-1.34	31695.890	2.5	32764.800	2.5
9352.7749	19.00	-.04	31695.890	2.5	32764.800	3.5
9354.5252	6.00	-3.44	88096.030	2.0	89164.740	1.0
9354.7527	14.00	-2.04	62156.816	2.0	63225.500	2.0
9355.0504	19.00	-.19	31696.150	1.5	32764.800	2.5
9355.8033	26.00	-4.53	31805.059	3.0	32873.623	4.0
9359.8238	14.00	-.69	61598.145	2.0	62666.250	1.0
9360.3057	10.00	-4.14	169516.990	1.0	170585.040	1.0
9363.1111	6.00	-1.00	84121.220	0.0	85188.950	1.0
9363.1988	28.01	-.68	120250.170	3.5	121317.890	3.5
9363.3742	12.00	-2.05	59936.630	1.0	61004.330	2.0
9365.1284	29.01	-1.63	137913.800	1.0	138981.300	2.0
9366.7956	10.00	-3.86	172282.200	3.0	173349.510	3.0
9366.7956	10.00	-3.86	172282.200	3.0	173349.510	3.0
9367.1467	10.00	-4.33	172282.200	3.0	173349.470	2.0
9367.1467	10.00	-4.33	172282.200	3.0	173349.470	2.0
9369.3414	6.00	-3.28	87806.930	3.0	88873.950	2.0
9370.7465	28.01	-2.84	115827.120	3.5	116893.980	2.5
9371.2735	9.01	-2.05	253474.660	4.0	254541.460	3.0
9371.7127	9.01	-.87	253474.660	4.0	254541.410	4.0
9371.8885	21.00	-3.34	32696.840	2.5	33763.570	1.5
9372.1520	13.01	-.47	146276.500	3.0	147343.200	2.0
9372.2399	9.01	-.01	253474.660	4.0	254541.350	5.0
9373.0308	17.01	-3.03	149952.400	1.0	151019.000	2.0
9373.1889	14.00	-1.50	60381.278	1.0	61447.860	2.0
9373.9975	10.00	-.48	170578.390	1.0	171644.880	1.0
9375.7557	28.01	-1.68	133001.470	.5	134067.760	1.5
9376.0195	9.01	-1.75	253475.280	2.0	254541.540	1.0
9376.7231	9.01	-.37	253475.280	2.0	254541.460	3.0
9376.7231	9.01	-.73	253475.280	3.0	254541.460	3.0
9376.8110	6.00	-2.12	88096.030	2.0	89162.200	2.0
9376.8110	9.01	-.75	253475.280	2.0	254541.450	2.0
9376.8110	9.01	-1.75	253475.280	3.0	254541.450	2.0
9377.1628	9.01	-.17	253475.280	3.0	254541.410	4.0
9378.4823	18.00	-1.79	122707.940	3.0	123773.920	3.0
9380.1366	10.00	-.72	169797.190	3.0	170862.982	2.0
9380.3039	12.00	-1.03	59689.991	2.0	60755.764	3.0
9380.3039	12.00	-1.57	59689.991	2.0	60755.764	3.0
9380.3039	12.00	-1.84	59689.991	2.0	60755.764	2.0
9380.5943	18.00	-1.80	122708.180	2.0	123773.920	3.0
9380.8760	26.00	-1.41	50880.152	1.0	51945.860	1.0
9380.8760	20.00	.21	41679.008	1.0	42744.716	2.0
9381.1664	14.00	-.94	60815.925	2.0	61881.600	1.0
9382.0028	9.01	-.90	253475.960	0.0	254541.540	1.0
9382.0028	9.01	-.90	253475.960	1.0	254541.540	1.0
9382.3814	7.00	-1.14	110220.107	1.5	111285.644	1.5
9382.7865	16.00	-.52	73910.309	1.0	74975.800	0.0
9382.7953	9.01	-.60	253475.960	1.0	254541.450	2.0
9384.5568	10.00	-3.84	171791.700	2.0	172856.990	1.0
9384.7243	17.00	-2.25	100165.638	4.5	101230.909	3.5
9385.7198	26.00	-3.06	50880.152	1.0	51945.310	2.0
9386.7333	17.00	-4.89	97354.057	1.5	98419.100	2.5
9387.9850	16.00	-.17	73910.309	1.0	74975.210	1.0
9389.8279	17.00	-1.94	100166.217	3.5	101230.909	3.5
9390.9922	14.00	-1.21	62519.660	2.0	63584.220	1.0
9392.7568	22.00	-3.20	27887.740	3.0	28952.100	4.0
9395.0341	7.00	-.76	111501.368	1.5	112565.470	.5
9395.7493	16.00	-.28	73910.309	1.0	74974.330	2.0
9395.9877	20.00	-.28	41679.008	1.0	42743.002	1.0
9396.1996	10.00	-3.93	172286.800	2.0	173350.770	1.0
9396.1996	10.00	-3.93	172286.800	2.0	173350.770	1.0
9397.2596	28.01	-4.61	98276.700	4.5	99340.550	3.5
9397.9928	10.00	-1.17	170578.390	1.0	171642.157	2.0
9399.2209	22.00	-2.74	28791.620	1.0	29855.248	1.0
9401.5899	14.00	-4.44	63488.010	3.0	64551.370	4.0
9402.0320	14.00	-2.00	62955.000	2.0	64018.310	1.0
9403.7123	26.02	-3.14	199262.440	3.0	200325.560	4.0
9403.9776	14.00	-.30	62141.800	1.0	63204.890	2.0
9404.5084	6.00	-2.46	87773.090	2.0	88836.120	3.0
9407.3403	10.00	-2.44	172286.800	2.0	173349.510	3.0
9407.3403	10.00	-2.44	172286.800	2.0	173349.510	3.0
9407.4288	10.00	-4.54	172286.800	2.0	173349.500	2.0
9407.4288	10.00	-4.54	172286.800	2.0	173349.500	2.0
9407.6944	10.00	-3.52	172286.800	2.0	173349.470	2.0
9407.6944	10.00	-3.52	172286.800	2.0	173349.470	2.0
9409.5538	14.00	-2.12	63488.910	4.0	64551.370	4.0
9410.5281	24.00	-3.23	44050.870	4.0	45113.220	3.0
9411.4141	28.01	-2.49	135670.490	.5	136732.740	1.5
9411.8571	26.00	-4.68	51048.100	1.0	52110.300	1.0
9412.2115	10.00	-2.02	170851.320	1.0	171913.480	0.0
9413.0623	26.00	-4.55	49460.876	5.0	50522.940	6.0
9413.1332	10.00	-.90	171009.340	1.0	172071.396	2.0
9413.2750	18.00	-.20	124051.440	3.0	125113.480	2.0
9415.0480	14.00	.07	63781.970	5.0	64843.810	4.0
9415.1367	18.00	-1.37	124051.650	2.0	125113.480	2.0
9415.4027	15.00	-1.68	75813.600	.5	76875.400	1.5
9415.5800	28.01	-4.28	133903.000	1.5	134964.780	1.5
9416.2896	8.03	-.97	596658.300	2.5	597720.000	1.5
9416.4580	10.00	-.49	169797.190	3.0	170858.871	3.0
9417.1055	26.00	-1.17	50880.152	1.0	51941.760	0.0
9417.3717	10.00	.56	170578.390	1.0	171639.968	2.0
9418.9509	10.00	-2.56	169516.990	1.0	170578.390	1.0
9419.5722	23.00	-3.70	41492.290	3.5	42553.620	4.5
9419.6255	7.00	-1.42	110103.834	1.5	111165.158	1.5
9420.0603	10.00	.85	169797.190	3.0	170858.465	4.0
9420.4420	16.00	-.65	73913.978	2.0	74975.210	1.0
9421.8892	17.00	-.61	100169.840	3.5	101230.909	3.5
9422.7684	28.01	-.03	129419.580	4.5	130480.550	3.5
9424.6605	17.00	-.48	101172.553	1.5	102233.310	2.5
9424.9892	28.01	-1.43	132869.160	3.5	133929.880	3.5
9425.0781	14.00	-3.22	63490.660	3.0	64551.370	4.0
9426.6777	9.00	-3.48	128712.300	1.5	129772.830	2.5
9426.8556	18.00	.29	122160.220	3.0	123220.730	2.0
9426.9445	14.00	-2.85	63783.310	4.0	64843.810	4.0
9427.0333	6.00	-3.59	83791.040	2.0	84851.530	1.0
9427.3889	12.00	-.52	59897.860	1.0	60958.310	2.0
9427.3889	12.00	-1.00	59897.860	2.0	60958.310	2.0
9427.4778	18.02	-3.64	209151.820	2.0	210212.260	3.0
9428.2602	16.00	-.06	73913.978	2.0	74974.330	2.0
9428.4558	10.00	-.82	171148.780	0.0	172209.110	1.0
9429.8788	18.00	-.52	123808.600	2.0	124868.770	3.0
9432.8150	10.00	-.18	170585.040	1.0	171644.880	1.0
9432.9929	18.01	-4.07	210609.360	3.5	211669.180	2.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9434.3282	6.00	-1.48	88096.030	2.0	89155.700	3.0
9435.4858	24.01	-4.13	53566.220	3.5	54625.760	2.5
9435.9310	29.01	-.90	136014.260	2.0	137073.750	2.0
9436.9108	18.00	-3.75	124054.100	3.0	125113.480	2.0
9436.9999	10.00	-2.84	172291.400	1.0	173350.770	1.0
9436.9999	10.00	-4.00	172291.400	2.0	173350.770	1.0
9436.9999	10.00	-2.84	172291.400	1.0	173350.770	1.0
9436.9999	10.00	-4.00	172291.400	2.0	173350.770	1.0
9438.3185	16.00	.14	73913.978	2.0	74973.200	3.0
9439.9583	18.00	.65	121270.682	2.0	122329.720	3.0
9440.2970	6.00	-2.69	87735.300	1.0	88794.300	2.0
9440.7428	6.00	-1.10	87777.170	3.0	88836.120	3.0
9441.1886	8.01	-1.73	274782.400	3.5	275841.300	3.5
9441.1886	8.01	-.14	274782.400	3.5	275841.300	4.5
9442.3300	10.00	-4.88	169526.268	2.0	170585.040	1.0
9442.3478	6.00	-3.00	87708.210	2.0	88766.980	1.0
9443.0613	10.00	-4.96	171798.300	1.0	172856.990	1.0
9443.8819	10.00	-1.03	169814.630	2.0	170873.228	3.0
9444.7563	13.01	-.39	145126.500	2.0	146185.000	2.0
9444.7563	13.01	.34	145126.500	2.0	146185.000	1.0
9444.7563	13.01	-1.93	145126.500	2.0	146185.000	3.0
9444.9348	9.02	-4.95	442694.580	1.5	443753.060	2.5
9446.9876	22.00	-2.24	39785.940	4.0	40844.190	3.0
9447.1839	10.00	.14	169814.630	2.0	170872.858	2.0
9448.2375	10.00	-3.90	172291.400	2.0	173349.510	3.0
9448.2375	10.00	-3.90	172291.400	2.0	173349.510	3.0
9448.3268	10.00	-3.96	172291.400	1.0	173349.500	2.0
9448.3268	10.00	-3.96	172291.400	1.0	173349.500	2.0
9448.5947	10.00	-3.15	172291.400	1.0	173349.470	2.0
9448.5947	10.00	-2.99	172291.400	2.0	173349.470	2.0
9448.5947	10.00	-3.15	172291.400	1.0	173349.470	2.0
9448.5947	10.00	-2.99	172291.400	2.0	173349.470	2.0
9448.9519	6.00	-.55	83877.310	1.0	84935.340	1.0
9449.0412	23.00	-4.60	38242.460	3.5	39300.480	2.5
9450.4703	18.01	-1.86	172335.520	2.5	173393.380	2.5
9450.5597	27.00	-4.14	45688.150	2.5	46746.000	2.5
9451.5426	6.00	-.77	88913.560	2.0	89971.300	3.0
9453.0707	7.00	-.62	111853.061	1.5	112910.630	2.5
9455.1181	6.00	-1.21	88092.010	1.0	89149.350	1.0
9456.2808	28.01	-3.11	99418.610	3.5	100475.820	3.5
9457.1126	10.00	.51	170585.040	1.0	171642.157	2.0
9457.1484	17.00	-1.05	100166.217	3.5	101223.330	2.5
9457.6226	29.01	-2.81	137073.750	2.0	138130.810	3.0
9458.6069	26.00	-1.06	49804.900	3.0	50861.850	3.0
9460.2180	28.00	-4.60	49086.030	4.0	50142.800	3.0
9461.8297	18.00	-2.51	123808.600	2.0	124865.190	2.0
9463.1731	18.00	-1.98	123808.600	2.0	124865.040	3.0
9463.3522	26.00	-1.05	49804.900	3.0	50861.320	2.0
9463.9525	20.00	-3.93	43933.477	1.0	44989.830	2.0
9466.2197	13.01	-.76	145128.900	3.0	146185.000	3.0
9466.2197	13.01	.15	145128.900	3.0	146185.000	2.0
9466.9368	18.00	-.63	122717.900	3.0	123773.920	3.0
9466.9368	18.00	-1.21	122717.900	4.0	123773.920	3.0
9466.9816	7.00	-.56	111853.061	1.5	112909.076	1.5
9468.8197	18.01	-4.06	210607.690	4.5	211663.500	3.5
9470.4343	22.00	-1.91	42092.520	4.0	43148.150	3.0
9470.6138	6.00	-2.01	87711.370	0.0	88766.980	1.0
9471.1521	6.00	-2.17	87735.300	1.0	88790.850	1.0
9475.0120	18.00	-3.61	124058.360	3.0	125113.480	2.0
9475.4609	17.00	-3.28	100890.130	2.5	101945.200	1.5
9476.7364	10.00	-4.80	170585.040	1.0	171639.968	2.0
9476.8981	14.00	-1.72	62935.760	3.0	63990.670	2.0
9477.5270	28.01	-1.01	135670.490	.5	136725.330	.5
9479.8636	26.01	-4.55	86416.220	3.5	87470.800	4.5
9481.0144	17.00	-2.58	94732.300	3.5	95786.752	2.5
9481.3021	28.01	-3.63	135464.860	3.5	136519.280	4.5
9482.0575	7.00	-.52	110447.032	1.5	111501.368	1.5
9482.2104	16.00	-1.01	73920.011	3.0	74974.330	2.0
9482.3813	29.01	-1.52	135990.150	3.0	137044.450	4.0
9484.9003	19.00	-1.77	32598.300	2.5	33652.320	2.5
9484.9003	19.00	-.47	32598.300	2.5	33652.320	3.5
9486.0702	19.00	-.63	32598.430	1.5	33652.320	2.5
9486.0702	10.00	-2.92	171803.100	2.0	172856.990	1.0
9486.6103	10.00	-4.20	171798.300	1.0	172852.130	0.0
9487.0155	22.00	-4.63	17540.205	3.0	18593.990	3.0
9487.3306	28.01	-2.27	132869.160	3.5	133922.910	4.5
9487.7177	14.00	-1.33	62667.823	3.0	63721.530	2.0
9488.3570	18.00	-1.02	120600.944	2.0	121654.580	2.0
9489.4018	6.00	-1.15	84116.090	1.0	85169.610	0.0
9489.6721	17.00	.07	100169.840	3.5	101223.330	2.5
9490.3927	9.00	-2.97	128606.090	2.5	129659.500	3.5
9490.6990	18.00	.33	120600.944	2.0	121654.320	3.0
9491.1945	10.00	-.78	169814.630	2.0	170867.951	1.0
9491.2036	6.00	-1.29	88096.030	2.0	89149.350	1.0
9491.2036	17.00	-2.96	100170.010	2.5	101223.330	2.5
9491.9245	6.00	-1.98	88913.560	2.0	89966.800	3.0
9492.3841	16.00	-.16	73920.011	3.0	74973.200	3.0
9493.1864	6.00	-2.26	88913.560	2.0	89966.660	2.0
9493.1864	15.00	-2.57	78069.000	1.5	79122.100	1.5
9493.1864	10.00	-1.29	171148.780	0.0	172201.880	1.0
9494.9896	13.01	.67	145132.100	4.0	146185.000	3.0
9495.8645	26.00	-.70	49558.500	4.0	50611.303	3.0
9496.5139	12.00	-.18	60127.239	2.0	61179.970	3.0
9496.5139	12.00	-.71	60127.239	2.0	61179.970	3.0
9496.5139	12.00	-.99	60127.239	2.0	61179.970	2.0
9498.9953	18.00	-2.02	120600.944	2.0	121653.400	3.0
9499.8077	14.00	-1.25	62669.164	3.0	63721.530	2.0
9500.4034	13.01	-.46	138536.400	3.0	139588.700	3.0
9500.4034	13.01	.50	138536.400	3.0	139588.700	4.0
9500.4034	13.01	.31	138536.400	3.0	139588.700	4.0
9500.9542	16.00	.42	73920.011	3.0	74972.250	4.0
9502.0108	10.00	-3.81	169526.268	2.0	170578.390	1.0
9502.2998	27.00	-4.14	48026.340	.5	49078.430	1.5
9504.8926	14.00	-3.81	62669.727	2.0	63721.530	2.0
9507.7310	7.00	-.43	110220.107	1.5	111271.596	.5
9508.2645	22.00	-4.27	27740.190	2.0	28791.620	1.0
9509.2594	28.01	.12	129419.580	4.5	130470.900	4.5
9509.5307	14.00	-3.05	62718.990	0.0	63770.280	1.0
9512.6344	14.00	-.96	60487.103	1.0	61538.050	0.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9512.7068	7.00	-2.02	111853.061	1.5	112904.000	.5
9515.3235	6.00	-1.28	88092.010	1.0	89142.660	2.0
9516.0480	26.00	-2.46	53328.870	4.0	54379.440	3.0
9516.8634	11.00	-.73	39298.350	.5	40348.830	1.5
9519.4007	13.01	-.59	146414.500	4.0	147464.700	4.0
9519.4007	13.01	-.73	146414.500	4.0	147464.700	4.0
9519.4007	13.01	1.03	146414.500	4.0	147464.700	5.0
9519.4007	13.01	-3.15	146414.500	4.0	147464.700	5.0
9519.4007	13.01	-2.06	146414.500	4.0	147464.700	5.0
9519.4007	13.01	1.04	146414.500	4.0	147464.700	5.0
9519.4007	13.01	-2.35	146414.500	5.0	147464.700	4.0
9519.4007	13.01	-.60	146414.500	5.0	147464.700	5.0
9519.4007	13.01	-.71	146414.500	5.0	147464.700	5.0
9519.4007	13.01	1.12	146414.500	5.0	147464.700	6.0
9519.4007	13.01	.94	146414.500	3.0	147464.700	4.0
9519.4913	14.00	.69	61936.130	1.0	62986.320	2.0
9519.8358	26.00	-4.39	44458.960	0.0	45509.112	1.0
9520.9419	28.01	-4.93	130570.420	.5	131620.450	1.5
9521.3045	11.00	-.47	39298.840	1.5	40348.830	2.5
9521.3045	11.00	-1.43	39298.840	1.5	40348.830	1.5
9521.4859	28.01	-3.16	120144.170	2.5	121194.140	2.5
9521.9394	28.01	-.57	135849.410	2.5	136899.330	1.5
9522.7556	14.00	.54	61936.130	1.0	62985.960	1.0
9523.0006	26.00	-3.16	47171.520	0.0	48221.323	1.0
9524.2979	18.00	-1.17	123815.530	1.0	124865.190	2.0
9526.8392	6.00	.82	85399.810	2.0	86449.190	3.0
9529.0095	26.00	-4.41	44676.963	4.0	45726.104	5.0
9529.5636	28.01	-1.61	120268.810	3.5	121317.890	3.5
9530.1995	28.00	-2.36	42605.964	3.0	43654.974	3.0
9530.3812	28.01	-3.58	130174.030	1.5	131223.020	2.5
9530.8355	28.01	-3.87	130174.030	1.5	131222.970	1.5
9531.2898	28.01	-4.83	130184.390	2.5	131233.280	3.5
9531.9259	18.00	-1.27	123808.600	2.0	124857.420	2.0
9533.1985	18.00	-2.98	124782.770	1.0	125831.450	0.0
9533.2894	18.00	-2.09	123808.600	2.0	124857.270	1.0
9535.0442	7.00	-4.36	110212.396	2.5	111260.873	3.5
9535.5627	6.00	-2.15	87718.560	1.0	88766.980	1.0
9535.7627	26.00	-3.79	44285.436	2.0	45333.834	2.0
9536.1812	10.00	-.94	169814.630	2.0	170862.982	2.0
9537.9280	28.01	-3.99	133734.980	3.5	134783.140	2.5
9538.0190	28.01	-2.82	120144.170	2.5	121192.320	3.5
9538.2920	23.00	-3.92	37075.640	4.5	38123.760	4.5
9539.9304	10.01	-.96	301855.710	2.5	302903.650	2.5
9540.4766	28.01	-4.72	133735.260	2.5	134783.140	2.5
9540.5676	6.00	-1.65	88096.030	2.0	89143.900	3.0
9542.2067	10.00	-1.19	170597.190	2.0	171644.880	1.0
9547.2187	21.00	-3.52	32751.540	3.5	33798.680	2.5
9549.6810	28.01	.41	129424.030	5.5	130470.900	4.5
9549.7723	10.01	-1.61	301855.710	2.5	302902.570	1.5
9550.9583	10.00	-1.64	172562.800	1.0	173609.530	1.0
9550.9583	10.00	-1.64	172562.800	1.0	173609.530	1.0
9551.8708	6.00	-1.09	88096.030	2.0	89142.660	2.0
9552.3546	14.00	-.17	62667.823	3.0	63714.400	2.0
9552.6101	14.00	-.16	61303.381	3.0	62349.930	2.0
9556.4636	17.00	.37	101172.553	1.5	102218.680	2.5
9558.3549	28.01	-2.49	120271.970	2.5	121317.890	3.5
9559.1775	29.01	-4.06	138073.670	4.0	139119.500	3.0
9559.2049	17.00	-.52	101172.553	1.5	102218.380	1.5
9559.8173	22.00	-2.84	43034.080	1.0	44079.840	2.0
9560.1830	10.00	-.60	172562.800	1.0	173608.520	2.0
9560.1830	10.00	-.60	172562.800	1.0	173608.520	2.0
9560.6401	10.00	-2.33	172562.800	1.0	173608.470	2.0
9560.6401	10.00	-2.33	172562.800	1.0	173608.470	2.0
9560.8505	14.00	-2.01	61304.283	2.0	62349.930	2.0
9561.1888	18.00	-.35	122160.220	3.0	123205.830	3.0
9561.1888	12.00	-1.28	59403.110	1.0	60448.720	0.0
9561.9295	10.00	-1.70	170867.951	1.0	171913.480	0.0
9562.1947	22.00	-2.54	43330.070	5.0	44375.570	5.0
9562.3503	17.00	-1.78	100185.426	2.5	101230.909	3.5
9562.6521	14.00	-1.13	62596.320	2.0	63641.770	3.0
9563.4753	28.01	-.71	120272.530	4.5	121317.890	3.5
9564.4177	10.00	.74	170597.190	2.0	171642.447	3.0
9564.6099	14.00	-.38	62669.164	3.0	63714.400	2.0
9567.0721	10.00	-.24	170597.190	2.0	171642.157	2.0
9567.8686	14.00	-2.00	61305.050	3.0	62349.930	2.0
9568.2990	17.00	-4.42	97338.887	2.5	98383.720	3.5
9568.4181	29.01	-2.50	135990.150	3.0	137034.970	3.0
9568.8852	14.00	-1.16	59917.336	2.0	60962.105	2.0
9569.7645	14.00	-1.05	62669.727	2.0	63714.400	2.0
9571.3495	28.01	-1.44	120250.170	3.5	121294.670	4.5
9571.3495	24.00	-3.79	44068.720	3.0	45113.220	3.0
9573.7235	10.00	.67	169814.630	2.0	170858.871	3.0
9574.8971	26.00	-3.38	47177.210	1.0	48221.323	1.0
9576.0619	18.00	.13	121470.304	0.0	122514.290	1.0
9577.9519	6.00	-2.66	87830.170	1.0	88873.950	2.0
9579.6956	10.01	-2.01	327774.480	4.5	328818.070	3.5
9582.9095	10.00	-.96	171787.000	3.0	172830.240	3.0
9582.9095	10.00	-.96	171787.000	3.0	172830.240	3.0
9583.2770	10.00	-2.26	171787.000	3.0	172830.200	2.0
9583.2770	10.00	-2.26	171787.000	3.0	172830.200	2.0
9584.5633	18.00	-2.36	124788.390	1.0	125831.450	0.0
9584.9309	26.02	-4.90	198658.800	3.0	199701.820	3.0
9584.9309	10.01	-2.09	301801.090	3.5	302844.110	2.5
9585.4822	10.01	-3.57	327775.110	3.5	328818.070	3.5
9585.6661	10.01	-2.12	327775.110	3.5	328818.050	2.5
9586.0337	14.00	-.41	63340.700	3.0	64383.600	4.0
9586.9530	30.02	-3.82	260878.800	3.0	261921.600	2.0
9587.1553	10.00	-.40	170597.190	2.0	171639.968	2.0
9590.2637	10.01	-.80	301801.090	3.5	302843.530	3.5
9590.5398	17.00	-1.95	100185.220	1.5	101227.630	.5
9591.8280	28.01	-1.16	121042.520	1.5	122084.790	1.5
9592.2053	17.00	.27	100188.680	4.5	101230.909	3.5
9592.2882	9.01	-4.93	264456.190	3.0	265498.410	2.0
9593.3928	22.00	-5.00	34535.040	2.0	35577.140	2.0
9594.3134	15.00	-.74	75833.400	2.5	76875.400	1.5
9595.0500	18.00	-1.15	123826.850	2.0	124868.770	3.0
9595.3264	18.00	-2.37	123815.530	1.0	124857.420	2.0
9595.9711	10.01	-1.71	301948.000	1.5	302989.820	1.5
9596.7080	18.00	-4.25	123815.530	1.0	124857.270	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9598.0900	18.00	-2.70	124311.720	1.0	125353.310	1.0
9599.7490	6.00	-1.21	87832.540	2.0	88873.950	2.0
9600.4865	16.00	-.13	79143.350	2.0	80184.680	1.0
9602.4230	26.00	-3.22	53838.600	3.0	54879.720	2.0
9604.4525	10.00	-1.89	171787.000	3.0	172827.900	2.0
9604.4525	10.00	-1.89	171787.000	3.0	172827.900	2.0
9604.7293	10.01	-1.58	301948.000	1.5	302988.870	.5
9606.0490	17.00	-1.92	96313.330	1.5	97354.057	1.5
9606.2983	17.01	-3.75	146013.000	2.0	147053.700	2.0
9607.4983	6.00	-1.46	87753.730	2.0	88794.300	2.0
9607.9600	18.01	-4.31	205214.710	3.5	206255.230	2.5
9608.2094	7.00	-3.73	110286.305	2.5	111326.798	2.5
9608.5049	7.00	-.93	110245.183	.5	111285.644	1.5
9610.7310	10.00	-1.74	171787.000	3.0	172827.220	3.0
9610.7310	10.00	-1.74	171787.000	3.0	172827.220	3.0
9610.9158	7.00	-.11	111905.609	2.5	112945.809	2.5
9611.4702	10.00	-.31	171787.000	3.0	172827.140	4.0
9611.4702	10.00	-.31	171787.000	3.0	172827.140	4.0
9612.6716	23.00	-2.73	37075.640	4.5	38115.650	3.5
9614.2431	22.00	-4.57	37659.927	3.0	38699.767	2.0
9615.2325	7.00	-2.23	110103.834	1.5	111143.567	.5
9616.7494	17.00	-3.66	100502.871	1.5	101542.440	1.5
9617.2953	24.00	-3.35	48558.570	2.0	49598.080	2.0
9617.5728	16.00	-.86	79143.350	2.0	80182.830	2.0
9617.5728	16.00	.04	79143.350	3.0	80182.830	2.0
9618.9609	29.01	-1.99	135759.970	2.0	136799.300	2.0
9619.9790	28.01	-.99	118874.110	3.5	119913.330	4.5
9620.9048	14.00	-2.60	62545.100	1.0	63584.220	1.0
9621.0900	28.01	-1.83	128803.230	2.5	129842.330	2.5
9624.1557	26.00	-4.07	44022.518	4.0	45061.287	3.0
9624.7950	29.01	-3.01	137034.970	3.0	138073.670	4.0
9624.7950	8.01	-3.00	255104.600	2.5	256143.300	3.5
9625.4437	28.01	-4.10	130184.390	2.5	131223.020	2.5
9625.6661	10.00	-.46	171032.790	3.0	172071.396	2.0
9625.9071	28.01	-4.92	130184.390	2.5	131222.970	1.5
9625.9812	14.00	-.36	56503.346	2.0	57541.918	1.0
9626.0925	9.02	-4.94	466788.600	2.5	467827.160	1.5
9626.2778	10.00	-2.26	171791.700	2.0	172830.240	3.0
9626.2778	10.00	-2.26	171791.700	2.0	172830.240	3.0
9626.6486	10.00	-1.11	171791.700	2.0	172830.200	2.0
9626.6486	10.00	-1.11	171791.700	2.0	172830.200	2.0
9628.1320	18.00	-3.16	123826.850	2.0	124865.190	2.0
9629.5231	18.00	-.72	123826.850	2.0	124865.040	3.0
9630.2651	17.00	-4.43	100185.220	1.5	101223.330	2.5
9630.2652	29.01	-.51	136035.640	3.0	137073.750	2.0
9630.4507	16.00	-.86	79143.350	3.0	80181.440	3.0
9630.4507	16.00	.20	79143.350	4.0	80181.440	3.0
9630.4507	16.00	-2.40	79143.350	2.0	80181.440	3.0
9632.1765	17.00	-.48	100185.426	2.5	101223.330	2.5
9633.7916	28.01	-3.12	134607.370	4.5	135645.100	5.5
9634.2558	28.01	-3.75	121042.570	1.5	122080.250	2.5
9634.9986	28.01	-4.53	115108.090	2.5	116145.690	3.5
9634.9986	10.00	-2.11	171791.700	2.0	172829.300	1.0
9634.9986	10.00	-2.11	171791.700	2.0	172829.300	1.0
9635.1844	21.00	-2.97	36515.760	1.5	37553.340	2.5
9635.5558	6.00	-1.12	83947.430	3.0	84984.970	3.0
9636.1409	22.00	-1.99	28791.620	1.0	29829.097	0.0
9636.7633	28.01	-1.44	120203.490	2.5	121240.900	3.5
9636.9862	18.00	-1.22	118407.494	1.0	119444.880	2.0
9638.4728	10.00	-.73	171043.690	2.0	172080.916	1.0
9638.5286	18.00	-.39	119212.930	3.0	120250.150	3.0
9638.5286	18.00	-.57	119212.930	3.0	120250.150	4.0
9639.4579	6.00	-1.77	87753.730	2.0	88790.850	1.0
9642.6191	28.01	-.44	120281.110	4.5	121317.890	3.5
9643.3632	28.01	-3.80	130184.390	2.5	131221.090	3.5
9643.4561	10.00	-1.05	169814.630	2.0	170851.320	1.0
9644.9447	14.00	-3.57	62450.400	1.0	63486.930	1.0
9647.3647	18.00	-1.04	123832.500	3.0	124868.770	3.0
9647.3647	18.00	-.26	123832.500	3.0	124868.770	4.0
9647.9978	26.00	-4.19	54342.640	2.0	55378.842	2.0
9648.0164	10.00	-3.05	171791.700	2.0	172827.900	2.0
9648.0164	10.00	-3.05	171791.700	2.0	172827.900	2.0
9648.6682	10.00	-2.34	172573.400	2.0	173609.530	1.0
9648.6682	10.00	-2.34	172573.400	2.0	173609.530	1.0
9650.6242	28.01	-3.66	121050.660	2.5	122086.580	3.5
9652.9538	14.00	-2.56	62955.000	2.0	63990.670	2.0
9654.3520	10.00	-.44	171791.700	2.0	172827.220	3.0
9654.3520	10.00	-.44	171791.700	2.0	172827.220	3.0
9654.5011	18.00	-.85	120619.076	2.0	121654.580	2.0
9656.9259	18.00	-4.12	120619.076	2.0	121654.320	3.0
9657.8961	10.00	-.42	172573.400	2.0	173608.540	3.0
9657.8961	10.00	-.42	172573.400	2.0	173608.540	3.0
9658.0828	10.00	-1.56	172573.400	2.0	173608.520	2.0
9658.0828	10.00	-1.56	172573.400	2.0	173608.520	2.0
9658.5492	10.00	-1.39	172573.400	2.0	173608.470	2.0
9658.5492	10.00	-1.39	172573.400	2.0	173608.470	2.0
9661.1627	10.00	-1.32	171822.200	1.0	172856.990	1.0
9662.2832	11.00	-1.02	38540.180	.5	39574.850	.5
9663.4040	20.01	-.61	90326.450	4.5	91361.000	4.5
9663.4040	20.01	1.12	90326.450	4.5	91361.000	5.5
9663.4040	20.01	1.03	90326.450	3.5	91361.000	4.5
9663.4694	17.00	-1.12	97338.887	2.5	98373.430	2.5
9664.8987	28.01	-2.70	120144.170	2.5	121178.560	3.5
9665.3660	14.00	-2.09	62545.100	1.0	63579.440	0.0
9665.4033	12.00	-2.77	59400.763	3.0	60435.099	2.0
9665.4033	12.00	-1.10	59400.763	3.0	60435.099	2.0
9665.4033	12.00	-2.59	59400.763	2.0	60435.099	2.0
9665.5154	18.00	.30	120619.076	2.0	121653.400	3.0
9667.7494	22.00	-1.90	28952.100	4.0	29986.185	3.0
9667.7680	17.00	-2.26	97338.887	2.5	98372.970	1.5
9669.2922	11.00	-.72	38540.930	1.5	39574.850	.5
9670.7888	18.01	-.40	205221.470	1.5	206255.230	2.5
9670.8823	10.00	-3.24	171791.700	2.0	172825.450	1.0
9670.8823	10.00	-3.24	171791.700	2.0	172825.450	1.0
9672.0986	28.01	-4.19	136673.640	4.5	137707.260	3.5
9672.7537	18.01	-2.83	205212.020	4.5	206245.570	3.5
9673.4369	26.00	-2.33	54342.640	2.0	55376.117	1.0
9674.0828	10.00	.39	169839.450	1.0	170872.858	2.0
9674.8131	14.00	-.44	61511.770	1.0	62545.100	1.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9675.7681	10.00	-2.57	166606.333	0.0	167639.561	1.0
9676.4050	28.01	-4.66	134607.370	4.5	135640.530	4.5
9676.5923	29.01	-4.16	117130.360	2.0	118163.500	2.0
9677.3417	6.00	-.89	86185.200	2.0	87218.260	2.0
9678.4659	12.01	-.63	115844.600	3.5	116877.540	3.5
9678.4659	12.01	.91	115844.600	3.5	116877.540	4.5
9678.4659	12.01	.80	115844.600	2.5	116877.540	3.5
9679.1218	10.01	-1.67	302475.610	.5	303508.480	1.5
9680.8090	18.00	-4.97	123832.500	3.0	124865.190	2.0
9681.3714	28.01	-.76	118877.090	1.5	119909.720	1.5
9682.2153	18.00	-1.60	123832.500	3.0	124865.040	3.0
9683.6221	14.00	-.32	63641.770	3.0	64674.160	4.0
9684.2787	24.00	-4.62	44080.900	2.0	45113.220	3.0
9684.6540	22.00	-4.79	28882.440	3.0	29914.720	3.0
9687.0938	24.00	-3.73	36212.150	4.0	37244.170	4.0
9687.3755	14.00	-1.95	62986.320	2.0	64018.310	1.0
9687.3849	12.00	-1.83	59403.110	1.0	60435.099	2.0
9688.2203	10.00	-.76	171798.300	1.0	172830.200	2.0
9688.2203	10.00	-.76	171798.300	1.0	172830.200	2.0
9689.3471	29.01	-3.91	135733.600	3.0	136765.380	4.0
9690.2863	6.00	-2.10	87735.300	1.0	88766.980	1.0
9692.9170	28.01	-2.82	116732.510	2.5	117763.910	1.5
9692.9170	6.00	-1.56	83820.130	1.0	84851.530	1.0
9692.9170	14.00	-.87	62718.990	0.0	63750.390	1.0
9695.5115	7.00	-.62	110470.244	2.5	111501.368	1.5
9696.6775	10.00	-1.11	171798.300	1.0	172829.300	1.0
9696.6775	10.00	-1.11	171798.300	1.0	172829.300	1.0
9697.9945	18.01	-3.13	205214.710	3.5	206245.570	3.5
9697.9945	18.01	-2.68	205214.710	4.5	206245.570	3.5
9700.7234	18.00	-2.02	123826.850	2.0	124857.420	2.0
9700.9117	28.01	-3.59	134614.550	5.5	135645.100	5.5
9700.9117	28.01	-.20	135558.800	4.5	136589.350	3.5
9702.1356	18.00	-2.60	123826.850	2.0	124857.270	1.0
9702.3239	24.00	-3.43	48558.570	2.0	49588.970	1.0
9702.6064	12.01	-.62	115847.670	4.5	116878.040	4.5
9702.6064	12.01	1.11	115847.670	4.5	116878.040	5.5
9702.6064	12.01	1.02	115847.670	3.5	116878.040	4.5
9704.7821	17.00	-3.26	100502.871	1.5	101533.010	2.5
9705.3380	10.01	-1.36	301801.090	3.5	302831.170	3.5
9705.7149	6.00	-1.90	87843.910	1.0	88873.950	2.0
9705.9222	20.00	-3.77	47006.194	2.0	48036.212	3.0
9706.7327	20.00	-2.23	47006.280	3.0	48036.212	3.0
9706.7515	10.00	-1.02	171822.200	1.0	172852.130	0.0
9707.7695	22.00	-2.20	28882.440	3.0	29912.262	3.0
9707.7883	6.00	-1.05	88061.280	1.0	89091.100	1.0
9707.8638	20.00	-1.16	47006.400	4.0	48036.212	3.0
9708.3540	18.00	.30	125059.800	2.0	126089.560	3.0
9709.6740	22.00	-2.42	39640.980	3.0	40670.600	2.0
9709.8626	10.00	-1.84	171798.300	1.0	172827.900	2.0
9709.8626	10.00	-1.84	171798.300	1.0	172827.900	2.0
9709.9570	28.01	-4.06	121050.660	2.5	122080.250	2.5
9710.8058	13.01	-.71	138559.200	4.0	139588.700	4.0
9710.8058	13.01	-.85	138559.200	4.0	139588.700	4.0
9710.8058	13.01	.82	138559.200	4.0	139588.700	5.0
9710.8058	13.01	-2.27	138559.200	4.0	139588.700	3.0
9711.6736	10.00	.58	169843.820	2.0	170873.228	3.0
9712.5040	28.01	-4.98	114052.040	3.5	115081.360	4.5
9713.0702	12.01	-1.96	115848.280	4.5	116877.540	4.5
9713.0702	12.01	-.23	115848.280	5.5	116877.540	4.5
9713.0702	12.01	-.32	115848.280	4.5	116877.540	3.5
9713.4476	29.01	-4.73	137044.450	4.0	138073.670	4.0
9713.7308	6.00	-2.87	87806.930	3.0	88836.120	3.0
9713.8252	28.01	-.05	118803.820	6.5	119833.000	5.5
9713.8252	22.00	-2.63	39526.890	2.0	40556.070	1.0
9715.1656	10.00	-1.54	169843.820	2.0	170872.858	2.0
9718.4522	10.00	-.62	171828.300	2.0	172856.990	1.0
9719.1136	28.01	-1.33	120199.180	1.5	121227.800	2.5
9720.2381	10.00	.04	169839.450	1.0	170867.951	1.0
9720.8146	28.01	-1.09	121146.980	2.5	122175.420	2.5
9720.9091	26.00	-4.46	46727.055	2.0	47755.485	3.0
9722.6109	9.02	-.28	490140.000	1.5	491168.250	2.5
9722.6109	9.02	-1.44	490140.000	2.5	491168.250	2.5
9722.6487	13.00	.77	44166.417	1.5	45194.663	2.5
9723.6511	18.00	-2.11	123832.500	3.0	124860.640	4.0
9723.8496	12.00	.35	56186.873	0.0	57214.992	1.0
9725.0699	24.00	-4.78	37883.340	2.0	38911.330	3.0
9725.2590	10.01	-.16	301801.090	3.5	302829.060	4.5
9727.7574	10.00	-1.24	171043.690	2.0	172071.396	2.0
9727.8141	28.01	-4.80	130205.620	5.5	131233.320	4.5
9728.0035	22.00	-4.71	40844.190	3.0	41871.870	2.0
9728.9501	12.01	-1.65	115847.670	3.5	116875.250	3.5
9728.9501	12.01	-.11	115847.670	4.5	116875.250	3.5
9728.9501	12.01	-.22	115847.670	3.5	116875.250	2.5
9733.0230	10.00	-4.45	171798.300	1.0	172825.450	1.0
9733.0230	10.00	-4.45	171798.300	1.0	172825.450	1.0
9733.1178	10.00	-.57	171803.100	2.0	172830.240	3.0
9733.1178	10.00	-.57	171803.100	2.0	172830.240	3.0
9733.4968	10.00	-1.72	171803.100	2.0	172830.200	2.0
9733.4968	10.00	-1.72	171803.100	2.0	172830.200	2.0
9734.1033	20.00	-2.27	47006.194	2.0	48033.230	2.0
9734.9185	20.00	-1.36	47006.280	3.0	48033.230	2.0
9735.5821	28.01	-.86	132927.970	1.5	133954.850	.5
9736.1131	7.00	-1.34	110299.974	2.5	111326.798	2.5
9736.9286	22.00	-1.90	28828.510	2.0	29855.248	1.0
9738.0478	27.00	-4.28	49078.430	1.5	50105.050	1.5
9738.4272	14.00	-2.10	63225.500	2.0	64252.080	2.0
9739.5657	22.00	-4.69	18911.399	2.0	19937.859	1.0
9740.0116	7.00	-1.42	110245.183	.5	111271.596	.5
9740.2300	6.00	-1.43	88135.810	3.0	89162.200	2.0
9740.3248	28.01	-4.92	130206.900	4.5	131233.280	3.5
9741.1790	10.00	-1.02	171830.700	1.0	172856.990	1.0
9741.3689	10.00	-2.04	171798.300	1.0	172824.570	0.0
9741.3689	10.00	-2.04	171798.300	1.0	172824.570	0.0
9742.0333	10.00	-2.23	171803.100	2.0	172829.300	1.0
9742.0333	10.00	-2.23	171803.100	2.0	172829.300	1.0
9743.7899	14.00	-.36	60815.925	2.0	61841.940	2.0
9744.0273	10.00	-3.29	171831.000	0.0	172856.990	1.0
9745.2621	28.01	-1.92	120268.810	3.5	121294.670	4.5
9745.8321	13.00	.92	44168.863	2.5	45194.663	3.5

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9745.8321	13.00	-.38	44168.863	2.5	45194.663	2.5
9745.9271	28.01	-4.07	130197.230	1.5	131223.020	2.5
9746.7823	14.00	.62	61960.260	0.0	62985.960	1.0
9746.8773	28.01	-4.50	115120.000	2.5	116145.690	3.5
9748.1413	17.00	-2.07	96313.330	1.5	97338.887	2.5
9748.5881	28.01	-4.38	107737.810	1.5	108763.320	.5
9749.7670	20.00	-1.56	47006.194	2.0	48031.580	1.0
9750.5752	18.00	-2.46	124041.200	1.0	125066.501	2.0
9750.7750	17.00	-1.66	100202.350	.5	101227.630	.5
9751.6785	7.00	-.52	110035.720	.5	111060.905	.5
9752.2874	18.00	-3.31	124041.380	2.0	125066.501	2.0
9753.2483	17.00	-1.16	100202.610	1.5	101227.630	.5
9753.7241	14.00	-.57	60856.630	1.0	61881.600	1.0
9754.2000	18.00	-2.49	123832.500	3.0	124857.420	2.0
9754.2190	18.00	.14	122790.612	0.0	123815.530	1.0
9754.3236	18.00	.42	121257.227	1.0	122282.134	2.0
9754.3903	18.00	-.55	125039.600	1.0	126064.500	2.0
9755.0280	22.00	-1.91	28882.440	3.0	29907.273	2.0
9755.3421	10.00	-.89	171803.100	2.0	172827.900	2.0
9755.3421	10.00	-.89	171803.100	2.0	172827.900	2.0
9756.6083	14.00	-.12	60487.103	1.0	61511.770	1.0
9759.8849	26.00	-4.46	47197.000	2.0	48221.323	1.0
9760.0088	28.01	-.76	120203.490	2.5	121227.800	2.5
9760.7711	28.01	-.15	120270.440	5.5	121294.670	4.5
9760.9617	19.00	-.13	33572.060	2.5	34596.270	1.5
9761.4383	19.00	-1.08	33572.110	1.5	34596.270	1.5
9761.4383	19.00	-.38	33572.110	1.5	34596.270	.5
9761.7146	10.00	-1.54	169843.820	2.0	170867.951	1.0
9761.7242	6.00	-.88	88061.280	1.0	89085.410	1.0
9765.8245	28.01	-3.81	115870.280	2.5	116893.980	2.5
9767.4275	10.00	-.71	169839.450	1.0	170862.982	2.0
9768.0192	10.00	-2.72	172327.300	0.0	173350.770	1.0
9768.0192	10.00	-2.72	172327.300	0.0	173350.770	1.0
9770.3103	28.01	-4.11	134583.070	6.5	135606.300	6.5
9772.2203	18.00	-2.74	124311.720	1.0	125334.750	0.0
9772.3541	10.00	-.92	171057.900	1.0	172080.916	1.0
9773.0801	12.00	-.50	59935.370	3.0	60958.310	2.0
9773.0801	12.00	-1.82	59935.370	2.0	60958.310	2.0
9778.7202	10.00	-1.51	171803.100	2.0	172825.450	1.0
9778.7202	10.00	-1.51	171803.100	2.0	172825.450	1.0
9779.5811	26.00	-4.77	53661.130	3.0	54683.390	4.0
9779.8681	28.01	-.98	121090.710	.5	122112.940	.5
9780.7292	28.01	-1.48	120272.530	4.5	121294.670	4.5
9780.7292	14.00	-1.47	63641.770	3.0	64663.910	4.0
9781.7819	28.01	-4.31	134607.370	4.5	135629.400	3.5
9782.8349	16.00	-4.62	77180.310	2.0	78202.230	3.0
9783.2369	17.00	-.70	94973.683	.5	95995.561	.5
9785.1329	12.00	-1.76	59936.630	1.0	60958.310	2.0
9786.7997	14.00	.03	61574.814	3.0	62596.320	2.0
9787.3745	7.00	-.98	111905.609	2.5	112927.055	1.5
9787.5279	10.00	-1.33	171830.700	1.0	172852.130	0.0
9788.4670	12.00	-2.23	59881.168	3.0	60902.500	2.0
9788.4670	12.00	-.90	59881.168	3.0	60902.500	3.0
9788.4670	12.00	-1.09	59881.168	3.0	60902.500	3.0
9788.4670	12.00	.38	59881.168	3.0	60902.500	4.0
9788.5916	12.00	-.86	59881.181	2.0	60902.500	2.0
9788.5916	12.00	-.21	59881.181	2.0	60902.500	3.0
9788.5916	12.00	-.30	59881.181	2.0	60902.500	3.0
9788.7353	12.00	.05	59881.196	1.0	60902.500	2.0
9789.6364	6.00	-1.41	87773.090	2.0	88794.300	2.0
9789.7323	8.01	-1.99	255104.600	2.5	256125.800	2.5
9789.8281	7.01	-1.49	210266.040	2.0	211287.230	3.0
9790.6143	22.00	-2.23	38764.832	3.0	39785.940	4.0
9790.6910	22.00	-3.73	43901.630	4.0	44922.730	3.0
9791.2663	28.01	-3.25	134607.370	4.5	135628.410	4.5
9794.3359	17.00	-1.50	100202.610	1.5	101223.330	2.5
9794.4319	29.01	-1.73	136014.260	2.0	137034.970	3.0
9794.5663	10.00	-1.24	171060.220	2.0	172080.916	1.0
9794.8542	20.00	-2.24	47550.214	2.0	48570.880	2.0
9794.8542	20.00	-1.34	47550.214	2.0	48570.880	1.0
9794.8542	20.00	-3.62	47550.214	2.0	48570.880	3.0
9795.4011	20.00	-1.33	47550.271	3.0	48570.880	2.0
9795.4011	20.00	-2.07	47550.271	3.0	48570.880	3.0
9796.3514	29.01	-1.73	135733.600	3.0	136754.110	2.0
9796.3611	20.00	-1.01	47550.371	4.0	48570.880	3.0
9797.3115	26.00	-2.83	49502.530	5.0	50522.940	6.0
9797.7916	28.01	-3.04	135746.130	1.5	136766.490	2.5
9797.9836	28.01	-.55	118892.990	5.5	119913.330	4.5
9797.9836	6.00	-1.32	88061.280	1.0	89081.620	0.0
9798.6558	18.00	-2.77	124771.670	2.0	125791.940	2.0
9798.8287	20.00	-.34	36731.615	1.0	37751.867	2.0
9800.2888	28.01	-.41	128822.230	1.5	129842.330	2.5
9802.3067	6.00	-2.34	88135.810	3.0	89155.700	3.0
9802.4989	29.01	-3.52	137044.450	4.0	138064.320	5.0
9802.8834	28.01	-.05	121120.880	5.5	122140.710	4.5
9804.8543	26.00	-1.48	53281.735	5.0	54301.360	4.0
9805.5756	29.01	-1.44	136919.350	3.0	137938.900	4.0
9807.2782	17.00	-.02	97354.057	1.5	98373.430	2.5
9809.3086	10.00	.24	169843.820	2.0	170862.982	2.0
9811.7058	17.00	-.97	97354.057	1.5	98372.970	1.5
9812.1199	14.00	.49	61936.130	1.0	62955.000	2.0
9813.1793	27.00	-3.47	46375.170	1.5	47393.930	2.5
9814.5281	6.00	-3.88	88061.280	1.0	89079.900	2.0
9814.5570	7.00	-2.21	110194.654	1.5	111213.271	1.5
9815.3664	28.00	-2.56	44262.619	2.0	45281.152	3.0
9815.6844	8.01	-.68	255104.600	2.5	256123.100	3.5
9816.8893	14.00	-.59	61647.875	2.0	62666.250	1.0
9818.5765	13.01	-1.83	146432.800	4.0	147451.000	4.0
9818.5765	13.01	-1.97	146432.800	4.0	147451.000	4.0
9818.5765	13.01	-.20	146432.800	5.0	147451.000	4.0
9818.5765	13.01	-4.39	146432.800	5.0	147451.000	4.0
9818.5765	13.01	-3.30	146432.800	5.0	147451.000	4.0
9818.5765	13.01	-.20	146432.800	5.0	147451.000	4.0
9818.5765	13.01	-3.59	146432.800	4.0	147451.000	5.0
9818.5765	13.01	-1.84	146432.800	5.0	147451.000	5.0
9818.5765	13.01	-1.95	146432.800	5.0	147451.000	5.0
9818.5765	13.01	-.12	146432.800	6.0	147451.000	5.0
9818.5765	13.01	-.30	146432.800	4.0	147451.000	3.0
9818.8658	18.00	.24	121068.804	1.0	122086.974	2.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9819.6470	20.00	-3.52	47015.141	3.0	48033.230	2.0
9821.6633	14.00	-2.01	63225.500	2.0	64243.380	2.0
9822.2422	28.01	-4.17	130215.500	4.5	131233.320	4.5
9822.4353	8.01	-2.58	254895.200	2.5	255913.000	1.5
9822.8213	6.00	-1.27	87773.090	2.0	88790.850	1.0
9823.1108	28.01	-2.99	132912.150	2.5	133929.880	3.5
9823.9796	28.01	-3.74	120144.170	2.5	121161.810	1.5
9828.1421	7.00	-3.52	111853.061	1.5	112870.270	.5
9828.8088	18.00	-1.51	119212.930	3.0	120230.070	2.0
9828.9054	6.00	-1.16	87777.170	3.0	88794.300	2.0
9831.3218	18.00	-1.20	119212.930	3.0	120229.810	3.0
9832.0954	8.01	-2.33	254895.200	1.5	255912.000	.5
9832.6756	6.00	.38	85399.810	2.0	86416.550	1.0
9834.0297	25.00	-3.76	49888.080	3.5	50904.680	2.5
9834.2038	20.00	-2.97	36731.615	1.0	37748.197	1.0
9835.4809	18.01	-2.16	173393.380	2.5	174409.830	1.5
9836.1196	10.00	-3.70	172080.916	1.0	173097.300	0.0
9836.4486	9.01	-4.88	264455.960	4.0	265472.310	3.0
9843.2281	20.00	-1.65	47555.230	3.0	48570.880	2.0
9845.5352	14.00	-1.08	60496.358	2.0	61511.770	1.0
9846.6213	28.01	-1.75	121125.410	4.5	122140.710	4.5
9847.3002	28.01	-3.88	134607.370	4.5	135622.600	3.5
9847.7852	28.01	-2.15	128827.150	3.5	129842.330	2.5
9848.9397	18.00	-2.22	124051.440	3.0	125066.501	2.0
9849.0367	10.00	-.36	169843.820	2.0	170858.871	3.0
9850.9777	18.00	-1.16	124051.650	2.0	125066.501	2.0
9852.4437	17.01	-3.24	149798.300	2.0	150813.000	1.0
9852.8321	18.00	-.54	125074.900	2.0	126089.560	3.0
9852.8612	22.00	-4.44	41170.003	3.0	42184.660	4.0
9855.1242	20.00	-2.73	42919.053	2.0	43933.477	1.0
9856.4263	22.00	-3.72	43148.150	3.0	44162.440	4.0
9856.7178	18.00	-1.09	124135.740	3.0	125150.000	3.0
9856.7178	18.00	.22	124135.740	4.0	125150.000	3.0
9857.1940	22.00	-2.76	45960.439	6.0	46974.650	5.0
9860.6066	28.01	-4.74	134614.550	5.5	135628.410	4.5
9862.3770	26.00	-3.32	53545.882	3.0	54559.560	3.0
9863.0386	28.01	-1.59	121161.810	1.5	122175.420	2.5
9863.0386	18.00	-1.05	125039.600	1.0	126053.210	2.0
9863.2819	7.00	-2.96	110247.288	3.5	111260.873	3.5
9863.5252	28.01	-.61	120281.110	4.5	121294.670	4.5
9864.1481	10.00	-1.62	171057.900	1.0	172071.396	2.0
9864.5958	6.00	-2.12	83838.080	2.0	84851.530	1.0
9866.0561	15.00	-.87	76875.400	1.5	77888.700	1.5
9866.5429	6.00	-3.38	87753.730	2.0	88766.980	1.0
9868.6857	14.00	-.01	61305.670	1.0	62318.700	0.0
9869.4650	28.01	-2.82	137562.740	3.5	138575.690	2.5
9869.6599	28.01	-3.22	130205.620	5.5	131218.550	6.5
9871.8040	18.00	-1.20	124137.290	3.0	125150.000	3.0
9873.3639	18.00	-2.37	124137.450	2.0	125150.000	3.0
9874.2415	22.00	-4.20	41194.420	3.0	42206.880	2.0
9875.7046	18.01	-4.14	172335.520	2.5	173347.830	1.5
9877.4610	18.00	-2.47	124771.670	2.0	125783.800	1.0
9879.9990	10.00	-3.30	169839.450	1.0	170851.320	1.0
9880.8779	28.01	-1.08	118897.940	2.5	119909.720	1.5
9882.7337	24.00	-2.53	53963.050	1.0	54974.640	2.0
9882.8314	6.00	-3.25	87633.750	2.0	88645.330	1.0
9882.8314	6.00	-1.82	87633.750	2.0	88645.330	2.0
9884.0821	18.00	-1.10	121270.682	2.0	122282.134	2.0
9885.1865	17.00	-3.75	101176.171	3.5	102187.510	2.5
9885.6654	29.01	-1.79	138130.810	3.0	139142.100	2.0
9886.7799	10.00	-.74	171060.220	2.0	172071.396	2.0
9890.6240	22.00	-3.17	37659.927	3.0	38670.710	4.0
9893.2961	26.00	-4.12	46744.975	3.0	47755.485	3.0
9895.6659	28.00	-2.33	44112.192	1.0	45122.460	1.0
9897.0178	6.00	-3.45	88159.870	0.0	89170.000	1.0
9897.3117	24.00	-3.46	47814.400	3.0	48824.500	4.0
9898.4877	17.00	-1.15	101223.330	2.5	102233.310	2.5
9899.9580	10.00	-1.05	172599.700	0.0	173609.530	1.0
9899.9580	10.00	-1.05	172599.700	0.0	173609.530	1.0
9904.0772	6.00	-1.90	86331.630	1.0	87341.040	0.0
9904.3029	10.00	-.06	168967.353	1.0	169976.740	0.0
9904.5482	7.00	-4.02	110194.654	1.5	111204.016	2.5
9904.8622	14.00	-1.91	62935.760	3.0	63945.090	3.0
9906.4326	18.00	-4.16	124782.770	1.0	125791.940	2.0
9906.5798	18.00	-.43	121470.304	0.0	122479.459	1.0
9907.1198	28.01	-1.04	135580.250	4.5	136589.350	3.5
9907.4143	28.01	-3.41	106133.140	1.5	107142.210	1.5
9909.3784	28.01	-3.55	134597.430	5.5	135606.300	6.5
9909.8302	10.00	-.91	169839.450	1.0	170848.274	0.0
9909.9678	29.01	-2.44	136035.640	3.0	137044.450	4.0
9910.3607	28.01	-4.94	134597.430	5.5	135606.200	5.5
9914.3903	29.01	-1.37	135910.990	2.0	136919.350	3.0
9915.1770	14.00	-1.32	62936.810	4.0	63945.090	3.0
9915.9637	15.00	-1.21	76762.400	.5	77770.600	.5
9916.5440	18.00	-.51	124058.360	3.0	125066.501	2.0
9916.9473	18.01	-2.10	189934.550	.5	190942.650	.5
9917.0457	6.00	-.64	88135.810	3.0	89143.900	3.0
9917.7049	18.00	-4.89	123372.987	2.0	124381.010	2.0
9919.0135	14.00	-2.31	61511.770	1.0	62519.660	2.0
9919.5352	26.00	-4.76	50611.303	3.0	51619.140	3.0
9920.8838	10.01	-1.59	302816.980	1.5	303824.680	2.5
9921.6222	14.00	.02	60815.925	2.0	61823.550	2.0
9922.8532	10.00	-.46	169843.820	2.0	170851.320	1.0
9923.3457	28.01	-4.74	130225.870	3.5	131233.320	4.5
9923.7397	28.01	-4.24	130225.870	3.5	131233.280	3.5
9927.2872	14.00	-0.00	61538.050	0.0	62545.100	1.0
9929.2591	6.00	-2.47	88135.810	3.0	89142.660	2.0
9931.1332	28.01	-2.33	135954.090	3.5	136960.750	2.5
9934.6861	13.01	-.48	146276.500	3.0	147282.800	3.0
9934.6861	13.01	.42	146276.500	3.0	147282.800	2.0
9934.8835	28.01	-1.01	129474.270	3.5	130480.550	3.5
9937.4511	28.01	-4.75	115081.360	4.5	116087.380	4.5
9938.7355	6.00	-2.09	88766.980	1.0	89772.870	2.0
9939.8224	28.01	-.84	132729.480	2.5	133735.260	2.5
9940.0201	28.01	-4.84	130227.520	2.5	131233.280	3.5
9940.0794	26.00	-4.92	45595.046	0.0	46600.800	1.0
9940.8108	28.01	-3.79	75721.680	5.5	76727.360	5.5
9941.3051	18.00	-4.00	124771.670	2.0	125777.300	1.0
9941.8389	22.00	-3.21	37538.804	2.0	38544.380	3.0

WAVELENGTH	ELEM	LOGGF	ELO	JLO	EUP	JUP
9942.3729	12.00	-.45	57017.724	1.0	58023.246	2.0
9942.5904	28.01	-2.04	132729.480	2.5	133734.980	3.5
9942.8870	7.00	-.23	111905.609	2.5	112911.079	3.5
9943.9749	17.00	.54	100170.980	1.5	101176.340	2.5
9945.5577	18.01	-2.55	205250.030	3.5	206255.230	2.5
9946.5472	13.01	-.74	145185.000	1.0	146190.100	0.0
9947.3290	7.00	-.26	111905.609	2.5	112910.630	2.5
9948.1308	29.01	-3.70	115639.020	2.0	116643.960	3.0
9948.3585	26.00	-2.65	50456.790	3.0	51461.707	4.0
9948.4278	28.01	-2.00	120222.890	1.5	121227.800	2.5
9948.8238	6.00	-1.65	88159.870	0.0	89164.740	1.0
9950.4082	14.00	-3.98	62985.960	1.0	63990.670	2.0
9950.5072	18.00	-.70	125059.800	2.0	126064.500	2.0
9950.8044	6.00	-1.54	87789.630	1.0	88794.300	2.0
9951.9930	6.00	-2.27	87633.750	2.0	88638.300	2.0
9951.9930	6.00	-1.39	87633.750	2.0	88638.300	3.0
9953.9748	14.00	-3.85	62986.320	2.0	63990.670	2.0
9955.2535	12.00	-.92	57019.025	2.0	58023.246	2.0
9955.3625	9.02	-4.72	442748.850	2.5	443753.060	2.5
9955.5212	7.00	-.69	110194.654	1.5	111198.848	.5
9955.5608	14.00	.28	60300.860	2.0	61305.050	3.0
9956.4531	15.00	-.06	75705.400	3.5	76709.500	3.5
9956.6812	7.00	-3.16	110322.721	1.5	111326.798	2.5
9960.0241	26.00	-.55	50456.790	3.0	51460.530	3.0
9960.4210	9.02	-.89	465541.000	1.5	466544.700	1.5
9960.4210	9.02	-1.10	465541.000	.5	466544.700	1.5
9961.6120	21.00	-4.30	16021.780	1.5	17025.360	1.5
9961.6120	6.00	-2.20	87832.540	2.0	88836.120	3.0
9961.8106	26.00	-4.08	50377.920	5.0	51381.480	4.0
9961.9098	18.00	-3.34	124788.390	1.0	125791.940	2.0
9961.9892	22.00	-2.99	45721.878	4.0	46725.420	3.0
9962.7338	7.00	-2.57	111905.609	2.5	112909.076	1.5
9962.8828	14.00	-1.55	57798.072	2.0	58801.524	1.0
9963.1707	14.00	-.71	60300.860	2.0	61304.283	2.0
9963.4685	18.00	-3.31	123372.987	2.0	124376.380	1.0
9964.5609	10.00	-4.71	171324.017	1.0	172327.300	0.0
9965.3854	13.01	-.28	133914.100	2.0	134917.300	1.0
9965.8523	26.00	-1.02	49804.900	3.0	50808.053	4.0
9968.0682	6.00	-.21	83947.430	3.0	84950.360	2.0
9969.2610	28.01	-3.06	120144.170	2.5	121146.980	2.5
9971.9160	17.00	-.30	100170.010	2.5	101172.553	1.5
9971.9459	14.00	.20	61447.860	2.0	62450.400	1.0
9972.1349	14.00	.04	60300.860	2.0	61303.381	3.0
9973.0003	14.00	-1.25	60645.441	2.0	61647.875	2.0
9974.9308	26.01	-4.52	86599.660	2.5	87601.900	1.5
9975.3289	26.00	-.77	50045.900	2.0	51048.100	1.0
9978.1266	14.00	-2.16	60645.441	2.0	61647.360	1.0
9978.3557	16.00	-4.43	77149.490	1.0	78151.386	1.0
9980.7066	22.00	-3.26	43231.990	4.0	44233.650	3.0
9980.9956	16.00	-4.91	77149.490	1.0	78151.121	2.0
9986.3895	6.00	.02	88135.810	3.0	89136.900	4.0
9986.9880	18.00	-3.29	124782.770	1.0	125783.800	1.0
9987.5866	28.01	-3.13	137562.740	3.5	138563.710	3.5
9987.9858	28.01	-4.02	114869.350	1.5	115870.280	2.5
9988.3849	14.00	.08	61595.430	1.0	62596.320	2.0
9988.5346	7.00	-.28	110212.396	2.5	111213.271	1.5
9994.9757	6.00	-4.96	87633.750	2.0	88633.980	3.0
9997.2746	13.01	.14	145185.000	1.0	146185.000	1.0
9997.2746	13.01	-.94	145185.000	2.0	146185.000	1.0
9997.2746	13.01	.62	145185.000	1.0	146185.000	2.0
9997.2746	13.01	.23	145185.000	2.0	146185.000	2.0
9997.2746	13.01	.98	145185.000	2.0	146185.000	3.0
9997.2746	13.01	.36	145185.000	0.0	146185.000	1.0

NOTICE

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First issued to ensure the immediate dissemination of data for satellite tracking, the reports have continued to provide a rapid distribution of catalogs of satellite observations, orbital information, and preliminary results of data analyses prior to formal publication in the appropriate journals. The Reports are also used extensively for the rapid publication of preliminary or special results in other fields of astrophysics.

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Research in Space Science
SAO Special Report No. 362

(NASA-CR-142881) A TABLE OF SEMIEMPIRICAL gf VALUES. PART 3: WAVELENGTHS: 599.4004 nm TO 9997.2746 nm (Smithsonian Astrophysical Observatory) 422 p HC $10.50 CSCL 03A
N75-24601
Unclas
G3/89 23032

A TABLE OF SEMIEMPIRICAL gf VALUES

R. L. Kurucz and E. Peytremann

in three parts

Part 3: Wavelengths: 599.4004 nm to 9997.2746 nm
Pages: 801 to 1219

February 14, 1975

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